

Functional Specification Document (FSD)

Project Name: GFMS

Version: 1.6

TRIPUND SOLUTIONS-GFMS

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Revision History

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Version	Review date	Approved By	Approval Business	From
1.3	01-08-2025	Manoj Batra		
Description	1. Payment Module 2. Adjustment Module 3. AMC Master 4. ULB Master 5. Reports 6. UI/UX changes 7. Account Master 8. User Master 9. Budget Master 10. Limit Master 11. Sweep Master 12. Work order Master			

Version	Review date	Approved By	Approval Business	From
1.4	25-11-2025			
Description	1. Scheme/ Project Master 2. Vendor Master 3. Payment Module 4. Beneficiary Master - Account Validation (Internal and External) 5. Beneficiary Master - Cooling Period, Job Card, Father Name, Ward No 6. Budget Master 7. Payment Flow 8. UI/UX changes 9. Dashboard – Interest Component 10. Mobile Application - Email Integration			

Version	Review date	Approved By	Approval Business	From
1.5	10-04-2026			
Description	• Scheme Master • Payment Module • Beneficiary Module • Budget Module • Notifications • Financial Year Handling • User Management • login page • Banner Module Web • Banner Module Mobile • Security Tip page – Web • Security Model pop up –Mobile • SMS & OTP – date format • User Audit Report- changes • Project payment report – changes • Transaction Report - changes • AOE & IEC Report • All payment report – common changes • Ward Master • Multiple Masters - GST related fields including calculations at 3			

	screens and 12 different reports, • Payee Master • Payee Master • Work Order Master • Account Master
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Version	Review date	Approved By	Approval From Business
1.6	25-05-2026		
Description	• Payment Module • All payment report – common changes • Work Order Master • Zone Division limit • Dashboard		

1. Introduction

1.1 Purpose

This document serves as a blueprint for software development, ensuring that all stakeholders understand the system's functionality, requirements, and behaviour. [OBJ]

Government Fund Management System (GFMS) enables government organizations to work most effectively to manage funds for various state or central government schemes (Project). GFMS application is a vast and fulfils very specific business needs. GFMS at core of function helps in Scheme/Project management, Payments of various kinds to Vendors, Special Help Group (SHG) and other Government and non-Government Beneficiaries.

1.2 Scope

We will cover the scope as

Functional Scope:

1. Core Features & Functionalities

Scheme Management, Budget Master, Payments (Single, Bulk), Beneficiaries Payments, Vendors Payments, Reports and Dashboards.

2. User Interactions & Workflows

In this document we will detail out the UI diagrams and High level DFDs and use case diagrams for each module.

3. System Behaviour & Business Logic (GFMS is a web-based system, which can be accessed via different users. These users are assigned roles, and each role is configured with privileges i.e. Actions such as (Add, Edit, Delete etc). GFMS is a role-based system based on the role assigned users can perform actions.

4. Integration with Other Systems. (GFMS is designed to integrate with Core Banking System, to ensure Bird's Eye View (Dashboards) for management and Reports of various kinds needed by different departments.)

Project Wise Child Allocation CR :

Sr.No	Module	Description	Requirement Raised by
1	Divison Zone Limit	Allocate limit to child ulbs based on available project limit	Department
2	Work order master	Allow workorders to be created with all the available limit.	Department
3	payment	Allow payments for any project and with all the available limit.	Department
4	Report/Dashboard	Show correct data in dashboard and reports using payment wise utilization	Department

Non-Functional Scope:

- Performance Expectations – N/A
- Security & Compliance – N/A
- Usability & Accessibility – N/A
- Availability & Scalability – N/A

1.3 Out of Scope

1. **Deviation Payment Module:** ULB requires a deviation payment module. Sometimes extra funds are released to a vendor against a created work order, but ULB cannot modify the work order amount. ULB will issue an official letter for the deviation of that work order. The maximum deviation percentage should be configurable at the UDD level.
2. **Branch Master:** To have the functionality of maintaining Bank branches from the frontend. The system should allow defining, editing, deleting branches, as per the requirement. It should have all required fields such as Branch sol, IFSC, Branch name, location, address etc.
3. **Account Link Master:** To have the functionality of parent child relationship management and account linking from the front end, as per the requirement of the Bank.

1.4 Target Users

The Target users of GFMS are Bank and Department users i.e. Tripura Government officials.

1.5 Assumptions & Constraints

Application operation responsibility is shared among multiple stakeholders, Bandhan Bank performs all operations related to creation and maintenance of Tripura Government's Bank accounts and related data. Tripura Government. Further Tripura Users

2. Functional Requirements

2.1 Use Cases & User Stories

2.1.1 Role Master

As this application is role-based, all roles are created and managed within this module. Following shows the Use-Case diagram for Role Master:

Use Case Diagram - Role Management

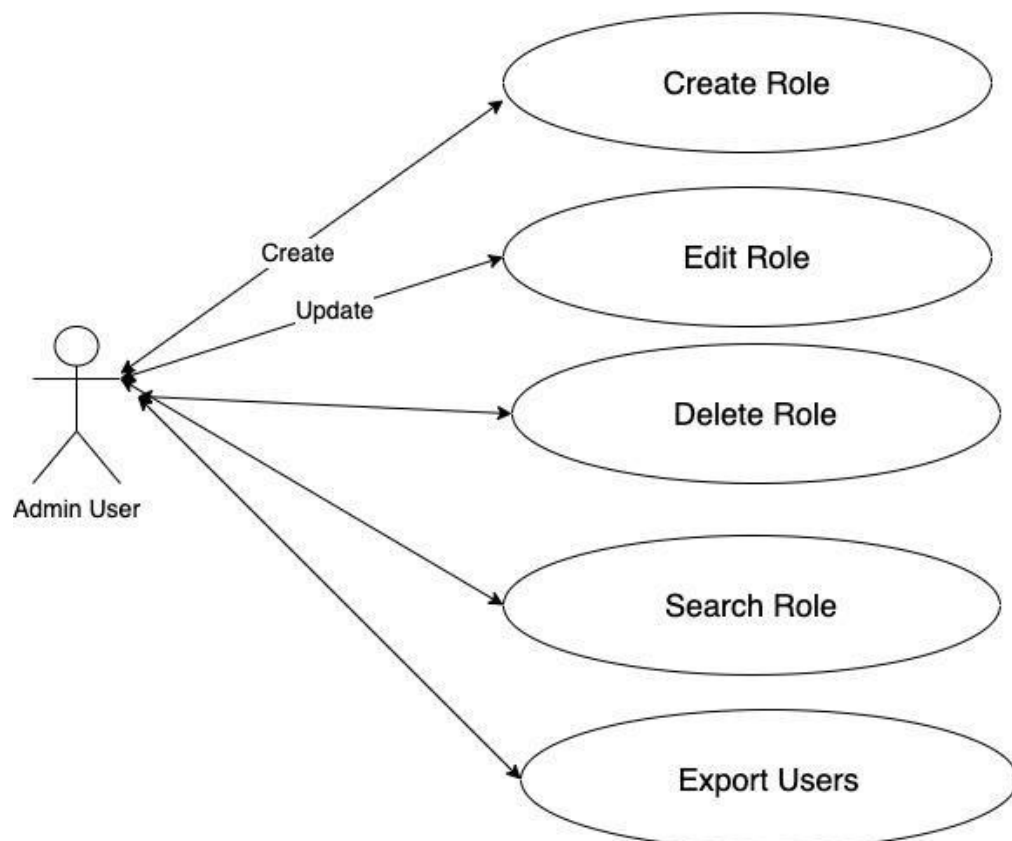


Figure: Use-Case Diagram: Role Master

2.1.2 User Master

All the users who have access to this application are listed here
Following shows the Use-Case diagram for User Master:

Use Case Diagram - User Master

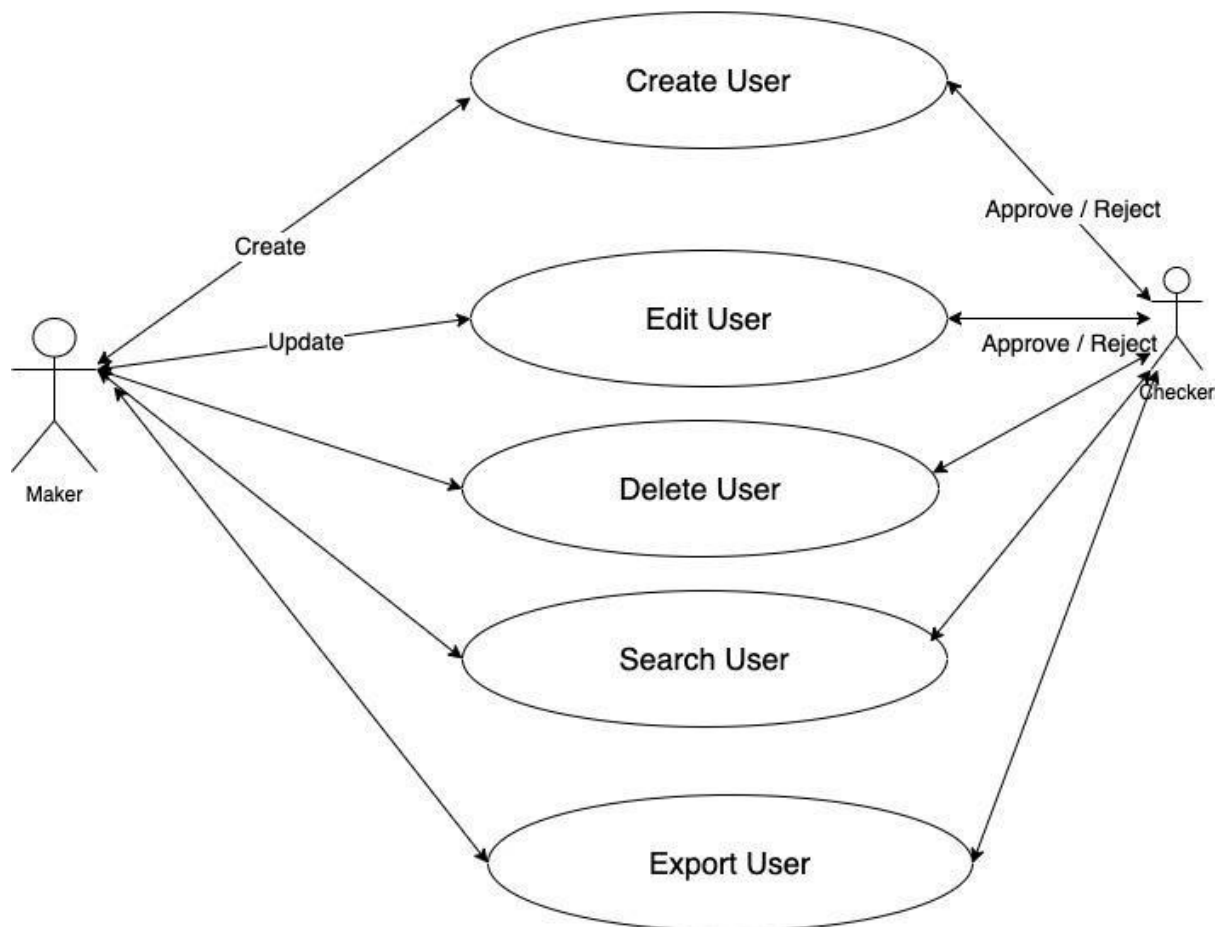


Figure: Use-Case Diagram: User Master

Phase 2 :- User mapping will be done through the User Master module by selecting the ULB from the active ULB list

Provision of mapping users to ULB's child acc too..

Query:- What is ULB's child account here??

Reply Agartala has child entities such as Division1 and Division2. As per the requirement, Division1 will create its own Work Orders (WOs) and payments. To enable this, users need to be mapped to specific divisions. Only those mapped users will be able to create WOs and payments for their respective Division/Zone. For this purpose, the User Master includes a provision to map users to a Division/Zone. When the OPS team maps a ULB to a user, if that ULB has any zones or divisions, the OPS team can assign the user to a specific Division/Zone by selecting the appropriate value from the dropdown which will visible on User creation.

A new user type, 'Branch User', has been introduced, who can perform ULB tasks if requested by the departments.

Additional fields to be captured for bank and branch users are employee number, employee grade, and employee designation, which will be provided by bandhan.

Provision to upload the document on user creation screen.

A new checkbox field has been added to distinguish between UPM and Bank users.

- When a UPM creates a user from the User Creation page, the User Type field should be displayed as Bank User and remain disabled.
- When any other user (other than UPM) creates a user from the User Creation page, the User Type field should be selected as Government Officer and remain disabled.

Query: A drop down should show default value as NA and system should prompt for selection of this value as Bank/Govt. User as per the requirement on submission.

Reply:- The User Type should not be pre-selected. If the user submits the form without selecting a User Type, a prompt should appear stating that User Type is required.

Branch users will have the access to all the ULB acc for transaction & view only access to masters.

Query:- User activation/deactivation needs to be included here.

Res:- A checkbox has been added on the User Creation page as 'Active User,' and it will be checked by default. If the OPS team wants to deactivate that user, they can simply uncheck the 'Active' checkbox.

User Management (UM)

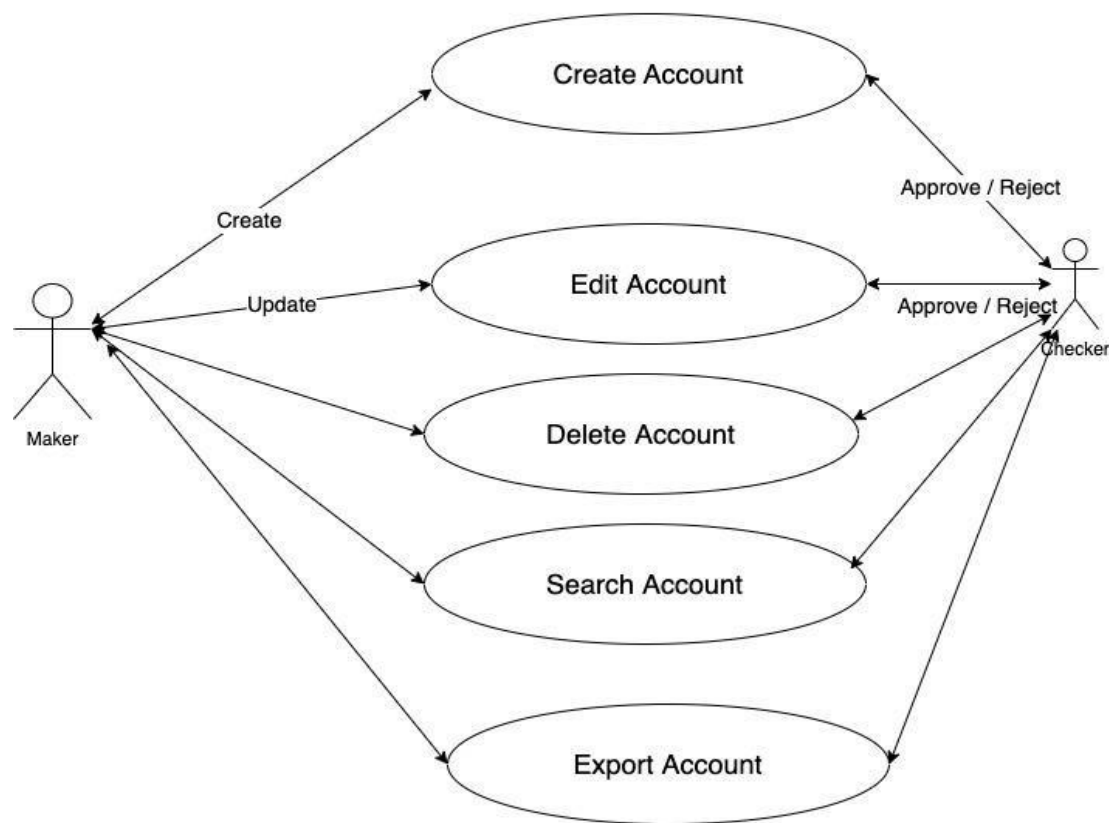
- The system shall mark a bank user as **Dormant** if inactive for a configurable number of days from the last login date (Last Login Date + X days, where X is configurable).
- Dormancy marking shall be executed automatically when user will login into application.
- The dormancy parameter (number of days) shall be configurable through the webconfig properties.
- The system shall support reactivation of dormant users through the I-AM modification API (Active User API), with required handling implemented for I-AM integration.
- As separate flags/fields are maintained for Active and Dormant status, the same will be appropriately handled in the I-AM modification API process.
- System will provide user reports for government users, including mapping details to ULBs.
- Any changes in the User Master module (AMC) shall be synchronized with IDAM for both branch and bank users.

2.1.3 Account Master

A new ULB account can be created through this module. Following shows the UI diagram for Account Master:

Figure: Use-Case Diagram: Account Master

Use Case Diagram - Account Master



Phase 2 :-

User Mapping Removal

The user mapping feature has been removed from the Account Master and moved to the User Master module. The functionality for mapping ULBs with accounts has changed with the introduction of the new 'ULB Master' module. When selecting the account type as 'ZBA' during account creation, a new dropdown field will appear, displaying all active ULBs.

Other Bank Holding acc

A new field, 'Bank Name', has been introduced in holding account creation. From now on, holding accounts of other banks can also be mapped to an SNA account.

Bulk Upload

The system shall provide an upload functionality to allow users to upload holiday data in the required excel template.

2.1.4 Branch Master

- The system should allow defining, editing, deleting branches, as per the requirement.
- Maintain the branch details like branch code, branch name, BIC code, region etc. In this we can search the branch details, add a new branch, edit the existing branch and delete the branch details

Following shows the UI diagram for Branch Master

Use Case Diagram - Branch Master

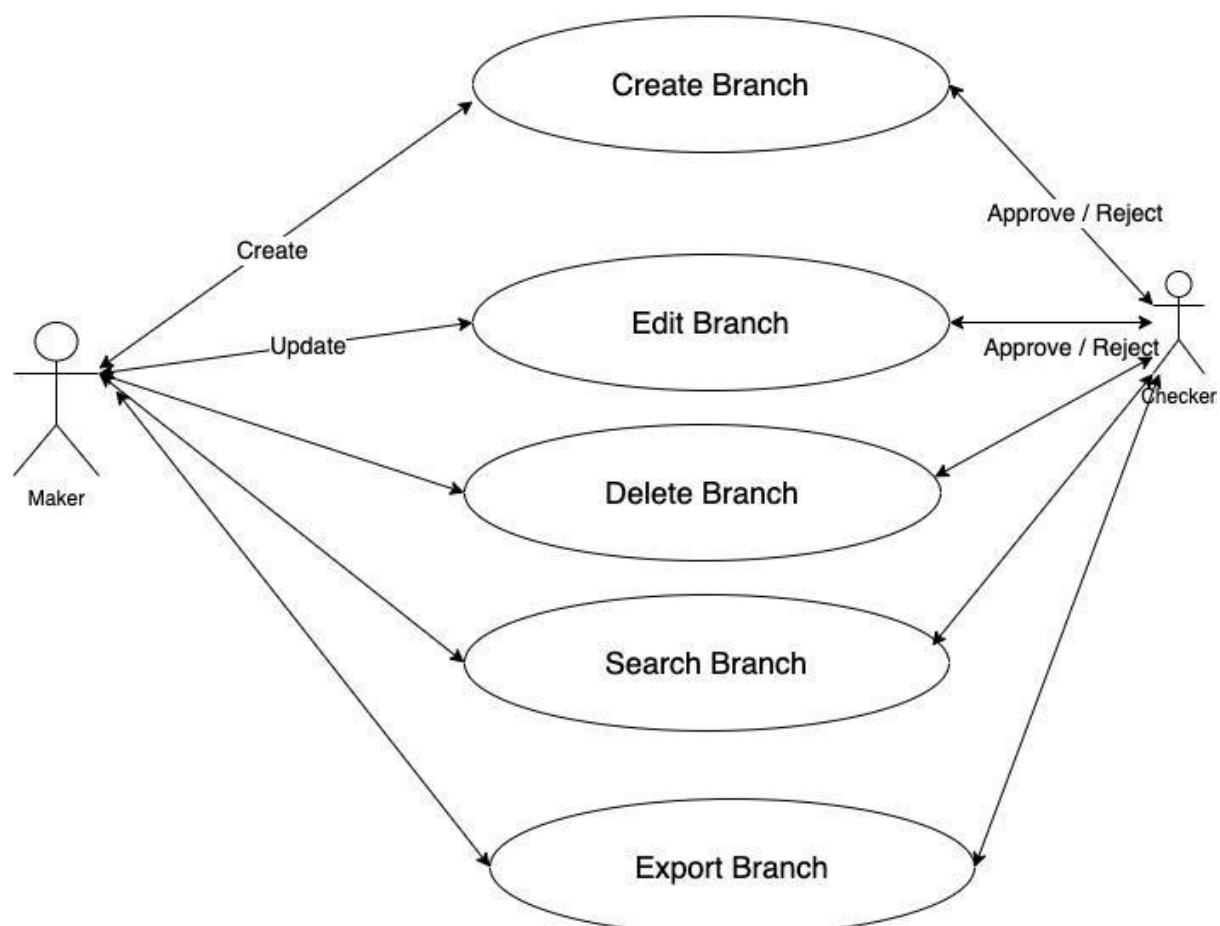


Figure: Use-Case Diagram: Branch Master

2.1.5 Holiday Master

- The purpose of Holiday Master is screen is defining holiday for the organization, based on holidays declared here no transactions will take place, this ensures security i.e. on non- working days. No financial transactions can be initiated or approved.

Following shows the UI diagram for Holiday Master:

Use Case Diagram - Holiday Master

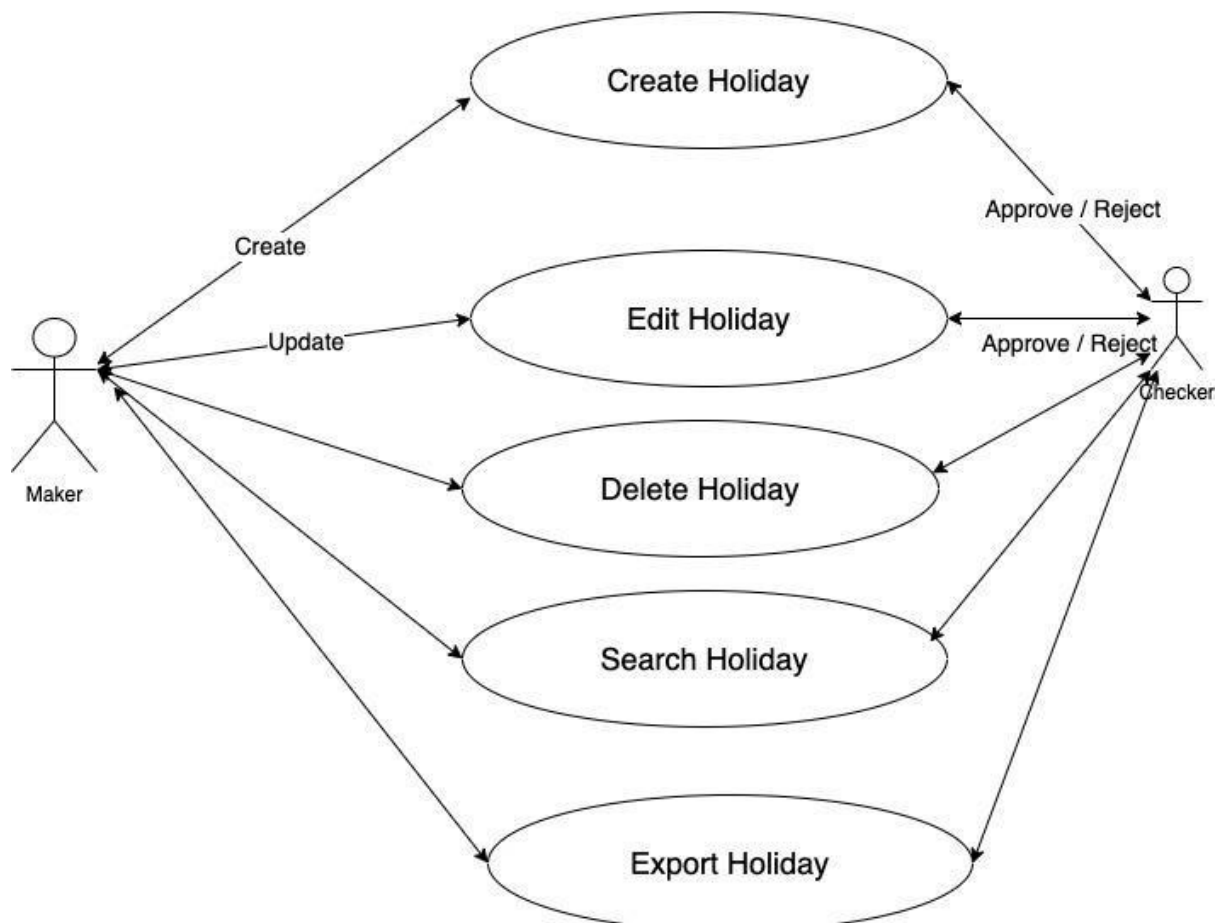


Figure: Use-Case Diagram: Holiday Master

2.1.6 Project Master

Projects are created by UDD maker user and then approved by another UDD checker user. Each Project is created to serve a specific purpose. Each project may have one or more “Sub Heads/Components”.

Use Case Diagram - Project Master

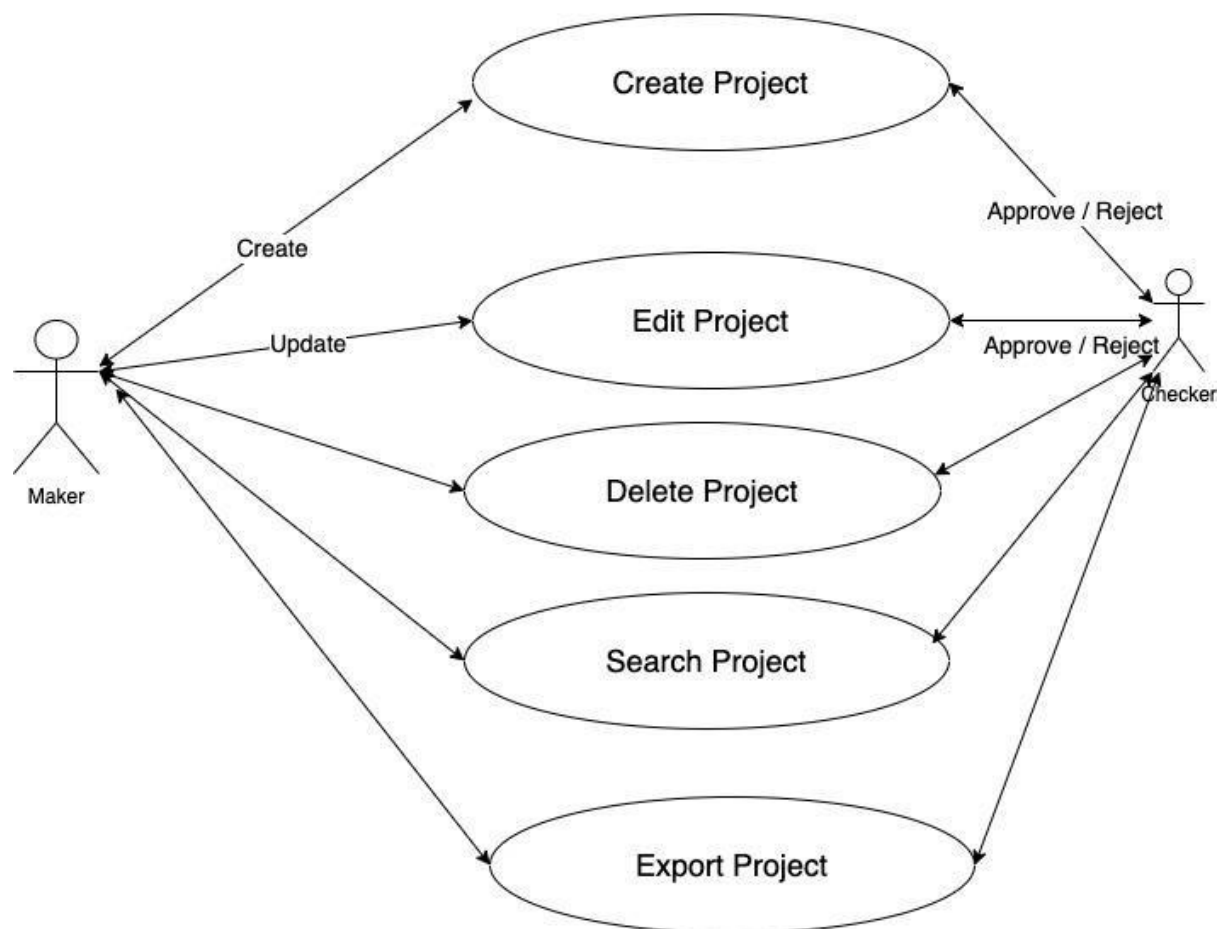


Figure: Use-Case Diagram: Project Master

Phase 2 :-

Project Ratio change

In the current application, payments are initiated against three projects that were tightly coupled, with each project having a fund allocation ratio of 60:40:25. From now on, this percentage ratio can be modified on the Project Creation page, before the approximate budget allocation.

Query:-Please confirm how this will be handled in the system?

Reply:- Once the projects are created, all active projects will be displayed in the Admin

Config Master. From there, we can set the percentage for each project. For reference, we have attached a snippet of the table that will be displayed in the Admin Config Master.

sr no	Project Name	percenatge %	Max ratio
1	Basic urban	60	☐
2	Public	20	☐
3	Routine	25	☒
4	Project 1	20	☐
Total		100	☐

As observed in the above snippet, the 'Percentage' and 'Max Ratio' fields will be editable. The sum of the percentages, excluding the value checked as 'Max Ratio,' should be equal to 100. For example, if 100 is allocated, the routine to spend a maximum of 25 of the allocated fund. If the routine spends 10, the remaining 90 will be distributed among the three projects according to their respective percentages (60:20:20). The main purpose of setting the percentages in the Admin Config Master is to provide a clear view of the fund distribution among the projects.

2.1.7 Admin Config Master:

This module allows Admin user to configure global parameters for the application. Once the parameters are set they can be approved by Checker Admin, further once the existing values are updated, new values come in immediate effect.

Use Case Diagram - Admin Config Master

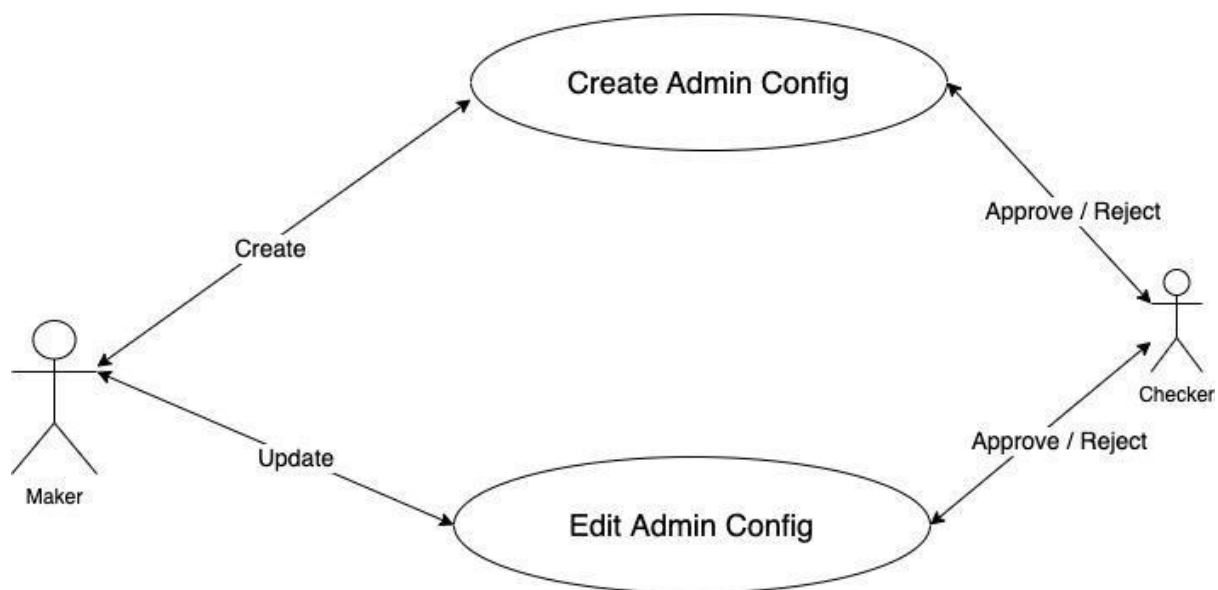


Figure: Use-Case Diagram: Admin Config Master

Phase 2:-

Beneficiary Cooling Period

A new field, 'Beneficiary Cooling Period', has been added. Beneficiaries must serve this cooling period before being included in the payments list. adding cooling period newly added beneficiaries, this will auto apply from config module where value was setup. A cooling period will be implemented for newly added beneficiaries. Users will not be able to initiate transactions during this period, similar to the existing net banking process. The duration of the cooling period will be configurable.

This is not part of Phase 2, this was part of the earlier BRD and was pending.
(Not found in BRD v1.0)

NEFT Auto Success Days

A new text field will be added in the admin configuration to mark deemed transactions as successful once the entered number of days is completed.

In transaction report and all the corresponding screens, transaction status dropdown should reflect properly like Pending, Success, Deemed Success etc

2.1.8 Budget Master:

The budget will be managed by UDD users.

UDD will allocate the financial budget to each Urban Local Body (ULB).

UDD has the authority to modify the budget amount at any time. This provision should also be available for other relevant processes.

Normative allocation of the un-tied fund of the MM-NUP to the municipal bodies will be determined based on weightages assigned to 3 (three) main criteria: Census 2011 population, Area (sq. km), Performance (Incentive) of the ULB

Use case Diagram - Budget Master

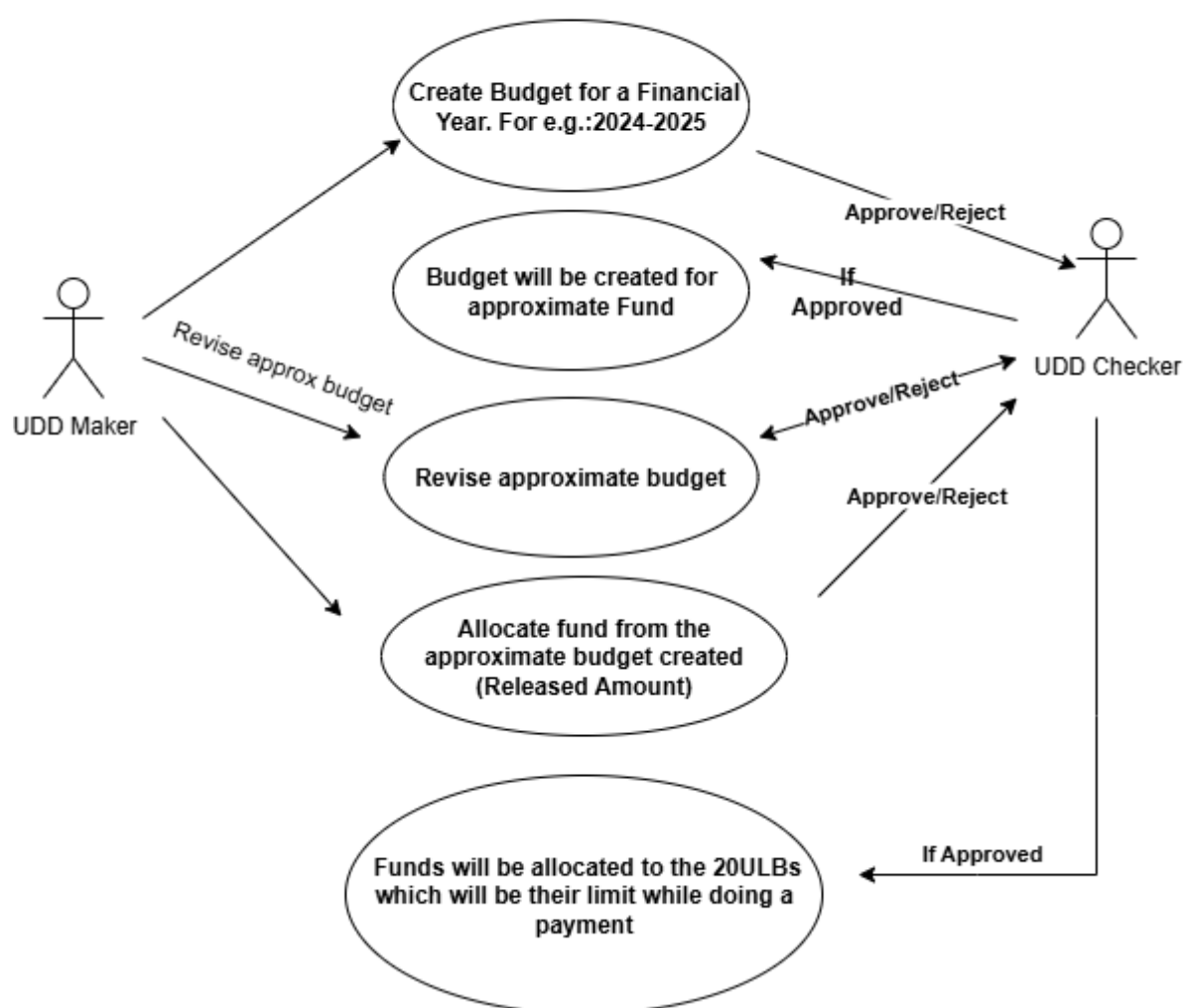


Figure:Use-Case Diagram: Budget Master

Phase 2 :-

Edit Provision

The approximate budget can be edited only for the current financial year or future financial years, and an audit trail will be maintained in the application. The approximate budget cannot be less than the allocated value, and the user modifying it must enter a remark justifying the change.

Budget and fund allocation amounts shall be entered in rupees (lakhs/crores), with a system feature to view and toggle values in lakhs or crores.

The system shall provide an option for users to download the fund allocation details in PDF format.

2.1.9 Project Payee Master

- Vendor>System should capture vendor details like GSTN number and PAN/TAN. The tax provision should be available for all vendor transactions
- Beneficiary>System should capture account/Aadhar and Job Card Number details of beneficiary and account validation module should be available in system.
- SHG> For work(s) assigned to Women SHGs functioning as agency, 5% of the final cost of work(s) will be paid as supervision charges to the concerned SHGs.

Use case Diagram - Project Payee Master

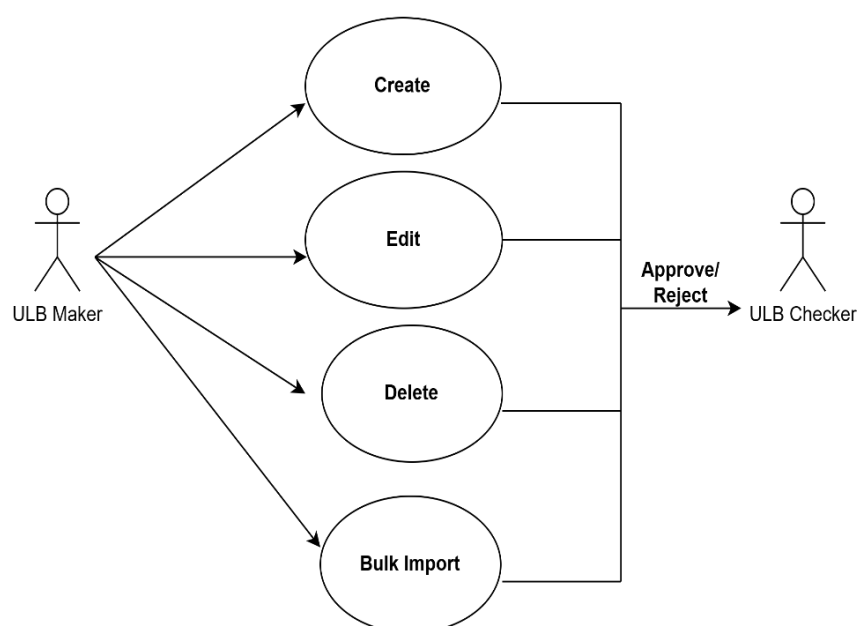


Figure: Use-Case Diagram: Project Payee Master

Phase 2 :-

When selecting the payee type as Beneficiary, a dropdown will be displayed with the label '**Account Type**', containing two options: '**Single**' and '**Joint**' account. On selecting a Joint account, multiple account holder names can be mapped to that payee. For Beneficiary bulk upload, two new columns have been added to the template for Joint account type.

Query:-Please confirm the additional columns.

Reply:- Account Type & Payee Names new fields be added (comma-separated, as multiple account holder names can be present for a joint account).

Account Number and Payee Name Validation

The system shall validate the account number and payee name using an API provided by Bandhan Bank for both same-bank and other-bank transactions.

If the validation is successful, the transaction shall proceed; otherwise, it shall be blocked with an appropriate error message.(API will be provided by bandhan bank)

Ward number will be required for all payee's.

Beneficiaries shall be uploaded and mapped against a specific ward number.

The system shall allow transfer of beneficiaries from one ward to another.

A bulk delete option shall be provided to enable deletion of multiple beneficiaries/vendors in a single action.

AMC:

For AMC, there are a total of 10 departments responsible for payments: 6 Divisions and 4 Zones. Users mapped to these Divisions and Zones will create Payees instead of AMC.

AMC can also create the Payees

Ok, but not on behalf of the Division/Zone. AMC will have the provision to view transactions of Division/Zones and reinitiate them in case of a technical failure, but AMC will not be able to initiate transactions themselves they can create there initiate .

AMC users & child users will also have the provision to create payee in bulk.

AMC user should be able to create Payees in bulk as well as single entries. Yes as per existing functionality and similar query has been answered above.

2.1.10 A&OE and IEC Payee Master

- Vendor>System should capture vendor details like GSTN number and PAN/TAN. The tax provision should be available for all vendor transactions
- Beneficiary>System should capture account/Aadhar and Job Card Number details of beneficiary and account validation module should be available in system.

Use case Diagram - A&OE and IEC Payee Master

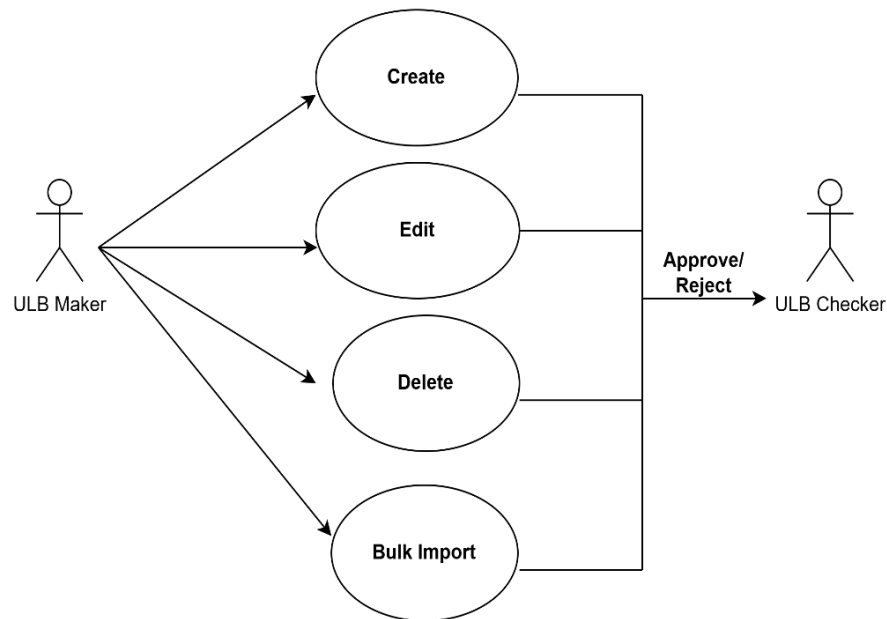


Figure: Use-Case Diagram: A&OE and IEC Payee Master

Phase 2:-

Joint Acc type

When selecting the payee type as Beneficiary, a dropdown will be displayed with the label '**Account Type**', containing two options: '**Single**' and '**Joint**' account. On selecting a Joint account, multiple account holder names can be mapped to that payee. For Beneficiary bulk upload, two new columns have been added to the template for Joint account type.

Account Number and Payee Name Validation

The system shall validate the account number and payee name using an API provided by Bandhan Bank for both same-bank and other-bank transactions.

If the validation is successful, the transaction shall proceed; otherwise, it shall be blocked with an appropriate error message. (API will be provided by bandhan bank)

AMC:

For AMC, there are a total of 10 departments responsible for payments: 6 Divisions and 4 Zones. Users mapped to these Divisions and Zones will create Payees instead of AMC

AMC child users will also have the provision to create AOE/IEC payee in bulk.

2.1.11 Monitoring and Supervision Payee Master

- Vendor>System should capture vendor details like GSTN number and PAN/TAN. The tax provision should be available for all vendor transactions
- Beneficiary>System should capture account/Aadhar and Job Card Number details of beneficiary and account validation module should be available in system.

Use case Diagram - Monitoring and Supervision Payee Master

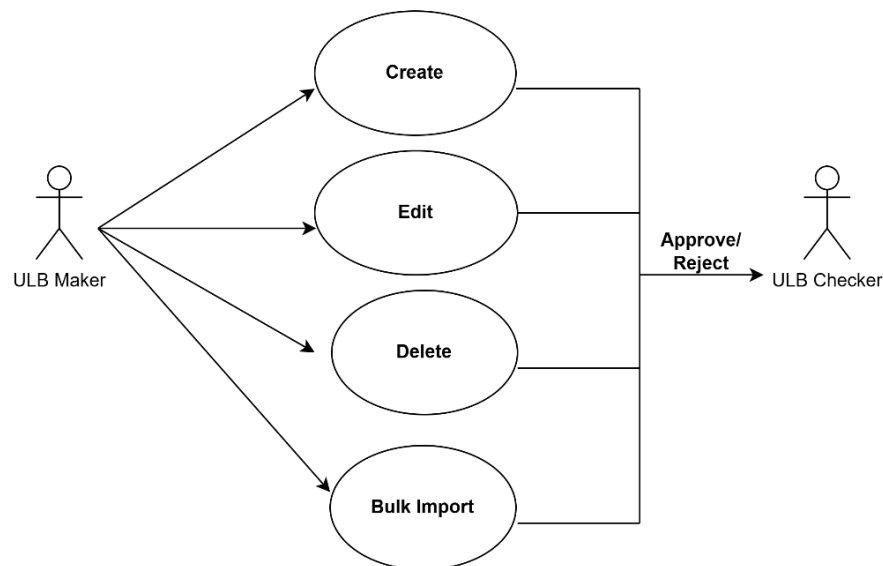


Figure: Use-Case Diagram: Monitoring and Supervision Payee Master

Phase 2

Joint Acc type

When selecting the payee type as Beneficiary, a dropdown will be displayed with the label '**Account Type**', containing two options: '**Single**' and '**Joint**' account. On selecting a Joint account, multiple account holder names can be mapped to that payee. For Beneficiary bulk upload, two new columns have been added to the template for Joint account type.

Account Number and Payee Name Validation

The system shall validate the account number and payee name using an API provided by Bandhan Bank for both same-bank and other-bank transactions.

If the validation is successful, the transaction shall proceed; otherwise, it shall be blocked with an appropriate error message.(API will be provided by bandhan bank)

2.1.12 Project Payments

On the payment screen, the user will first select the scheme name.

There after select the sub-head name.

Based on scheme name and sub-head name work order will be appeared in drop down.

Search facility should be available in drop down.

After selection of work order, work plan will be appeared on screen.

Payment rule engine will be work on selection of scheme.

If the ULB user selects the C(REW) scheme, then a maximum of 25% of the allocation amount will be used under the REW scheme

Selection of scheme A, ULB user can't exceed the 60 % of remaining budget amount validation

Selection of scheme B, ULB user can't exceed the 40 % of remaining budget amount validation.

If the work order is implemented by the SHG, then 5% of the work order amount will be given to the SHG and work order should not be greater than 2 lakhs.

Use case Diagram - Project payments

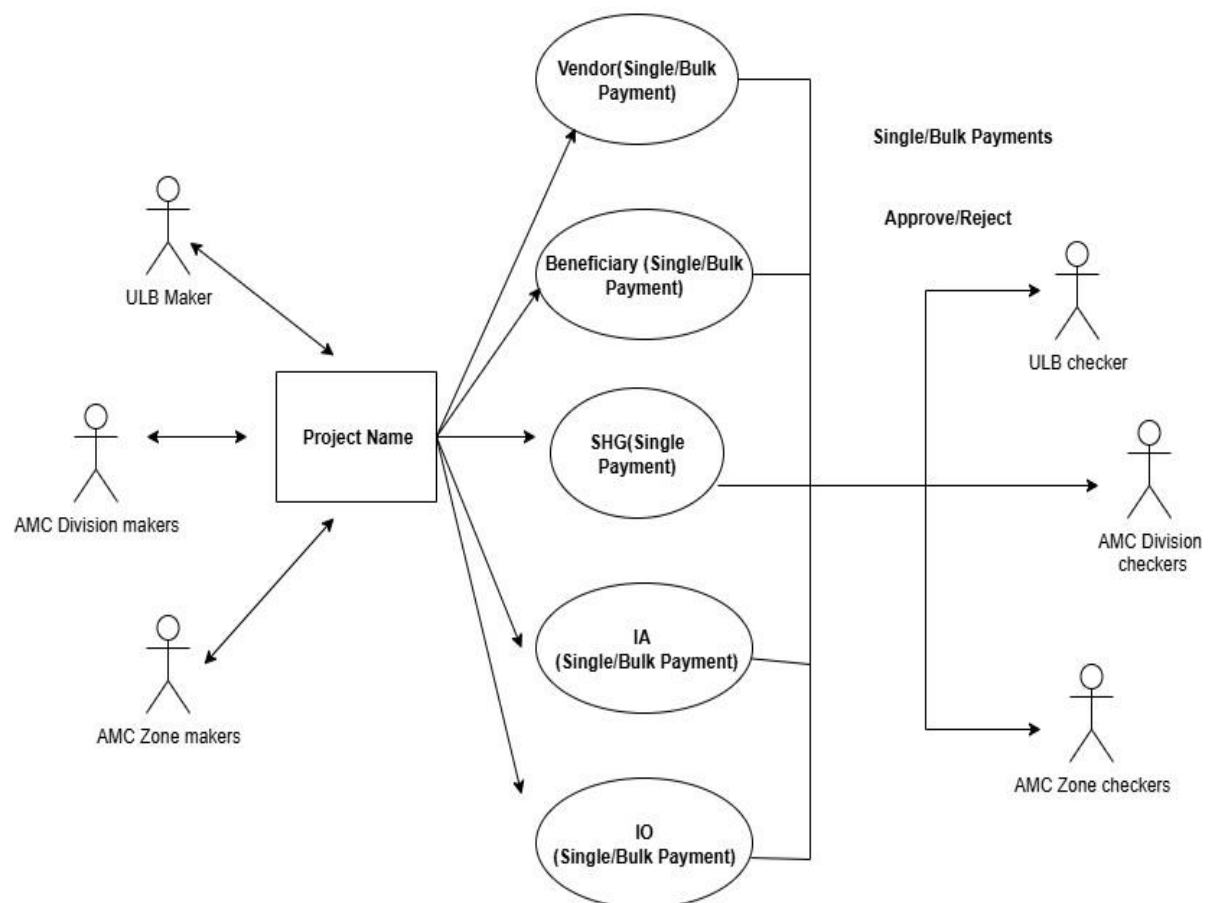


Figure: Use-Case Diagram: Project payments

Phase 2:-

Joint Account:

Joint account functionality has been added for Beneficiary payee types. If a payee has multiple account holders, the Beneficiary dropdown on the payment screen will display all account holders with the payee name as separate records. For example, if "Sharma Family" is a payee and has multiple account holders, the dropdown will show:

- Sharma Family – Rajan Sharma
- Sharma Family – Rajat Sharma
- Sharma Family – Samay Sharma

All these members will have the same job card number.

Bulk:

The bulk upload template for Beneficiary payees has been modified to reflect the above changes

Error Code Handling for Bank Responses

The system shall provide a mechanism to handle error codes received from the bank during transaction processing. All error codes shall be classified as either Business Failure or Technical Failure through configurable mapping.

In case of a Business Failure (e.g., invalid account details, insufficient balance), the system shall immediately mark the transaction as Failed without any further retry attempts. The error code and description shall be stored and displayed for reference and audit purposes.

In case of a Technical Failure (e.g., timeout, network issue), the transaction shall be marked as Pending or Retry Eligible. The system shall allow authorized users to re-trigger the transaction or update necessary details before reprocessing.

AMC:

For AMC, there are a total of 10 departments responsible for payments: 6 Divisions and 4 Zones. Users mapped to these Divisions and Zones will process payments instead of AMC but will retain the rights to view all transactions of their child units.

AMC will add limits to their child ULBs through an offline process. Division and zone users cannot initiate a payment greater than the limit allocated to their parent ulb acc.

Query: This will be through GFMS only. Limit should not exceed their individual limits (division and zone limits) allocated by AMC .

Reply: Please refer point 2.1.24 new module added.

Project Wise Child Allocation CR :

As-Is (Current Logic):

Currently, the Payment module for Child ULB users allows them to make payments against the limits allocated to them through the Zone & Division Master.

Within the Payment module, the Child ULB user selects a project from the available project list. Based on the selected project, the system displays the available payment limit, which is calculated using the existing **60:40:25 allocation formula** configured in the system.

The Child ULB user can only initiate payments up to the available limit calculated by the formula. Appropriate validations are implemented to ensure that payment amounts cannot exceed the permissible limit derived from the formula.

This validation and limit calculation logic is consistently applied across both:

- **Single Payment**
- **Bulk Payment**

To-Be (Future Logic):

Child ULB users will be able to make payments against any applicable project without being restricted by the existing project-wise allocation formula. The entire limit allocated to the Child ULB through the Zone & Division Master can be utilized across eligible projects, subject to the available allocated balance.

The allocation-wise deduction popup will be removed for Child ULB users as no formula is applied.

These enhancements will be implemented across both:

- **Single Payment Module**
- **Bulk Payment Module**

Additionally, Appropriate validations will be maintained to ensure that payment amounts do not exceed the available allocated balance and remove project wise payment validations for child users.

Expected Outcome

- Removal of project-wise payment restrictions based on the existing allocation formula.
- Full utilization of allocated limits across applicable projects.
- Removal of the allocation deduction popup for Child ULB users.
- Consistent functionality across Single Payment and Bulk Payment modules.
- Payment capability extended to Zone and Division users for their respective applicable projects.

- Validation controls retained to prevent payments exceeding the available allocated amount.

2.1.13 A&OE and IEC Payments

1% will be deducted for IEC (Information, Education, and Communication) purposes, and the funds will be credited to the IEC dedicated account.

2.5% will be deducted for A&OE (Administrative and Other Expenses), and the funds will be credited to the AOE dedicated account.

A&OE and IEC Payments

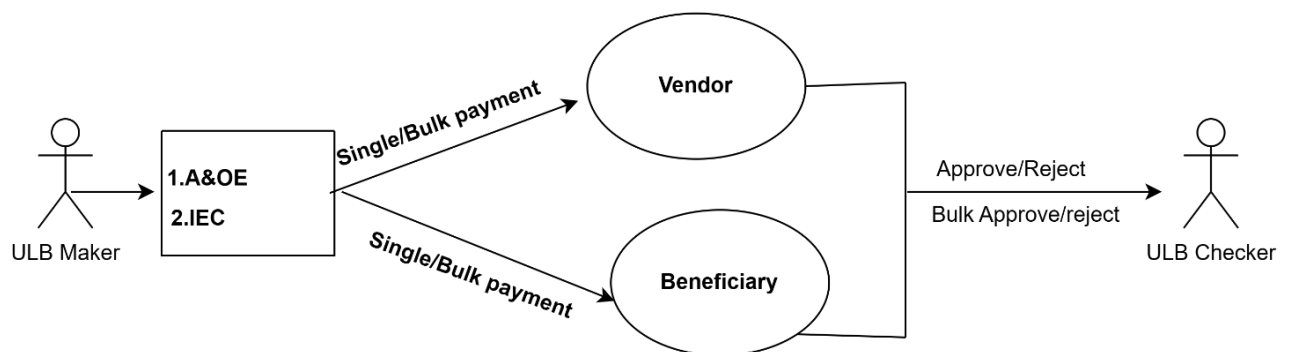


Figure: Use-Case Diagram: A&OE and IEC Payment

Joint Account:

Joint account functionality has been added for Beneficiary payee types. If a payee has multiple account holders, the Beneficiary dropdown on the payment screen will display all account holders with the payee name as separate records. For example, if "Sharma Family" is a payee and has multiple account holders, the dropdown will show:

- Sharma Family – Rajan Sharma
- Sharma Family – Rajat Sharma
- Sharma Family – Samay Sharma

All these members will have the same job card number.

Bulk:

The bulk upload template for Beneficiary payees has been modified to reflect the above changes.

AMC:

For AMC, there are a total of 10 departments responsible for payments: 6 Divisions and 4 Zones. Users mapped to these Divisions and Zones will process payments instead of AMC but will retain the rights to view all transactions of their child units.

AMC will add limits to their child ULBs through an offline process. Division and zone users cannot initiate a AOE/IEC payment greater than the limit allocated to their parent ulb acc.

2.1.14 Monitoring and Supervision payments

0.5% of the budget amount will be transferred to the UDD virtual account for monitoring and supervision at the directorate level

If the total budget for the financial year 2023-2024 is 100 Cr, but UDD only receives 50 Cr from the government, then 0.5% of the received funds will be credited to the directorate account. Whenever the remaining funds are received by UDD, 0.5% of those funds will also be credited to the directorate account for supervision.

Monitoring and Supervision Payments

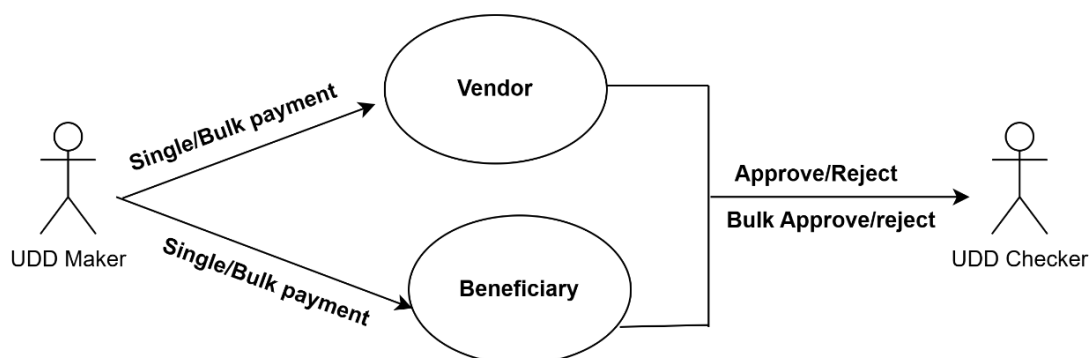


Figure: Use-Case Diagram: Monitoring and Supervision Payment

Phase 2

Joint Account:

Joint account functionality has been added for Beneficiary payee types. If a payee has multiple account holders, the Beneficiary dropdown on the payment screen will display all account holders with the payee name as separate records. For example, if "Sharma Family" is a payee and has multiple account holders, the dropdown will show:

- Sharma Family – Rajan Sharma
- Sharma Family – Rajat Sharma
- Sharma Family – Samay Sharma

All these members will have the same job card number.

Bulk:

The bulk upload template for Beneficiary payees has been modified to reflect the above changes.

2.1.15 Work order Master

Work order must be created by the respective ULB

Each ULB will have its own distinct work order

SHG audit, if any- Yes / No (for WO equal to or below Rs. 2 Lakhs)

Work id will be Auto generated

The work order amount can only be revised by UDD users. Every Work id must be closed and made unavailable from the payment screen dropdown after the full amount is exhausted.

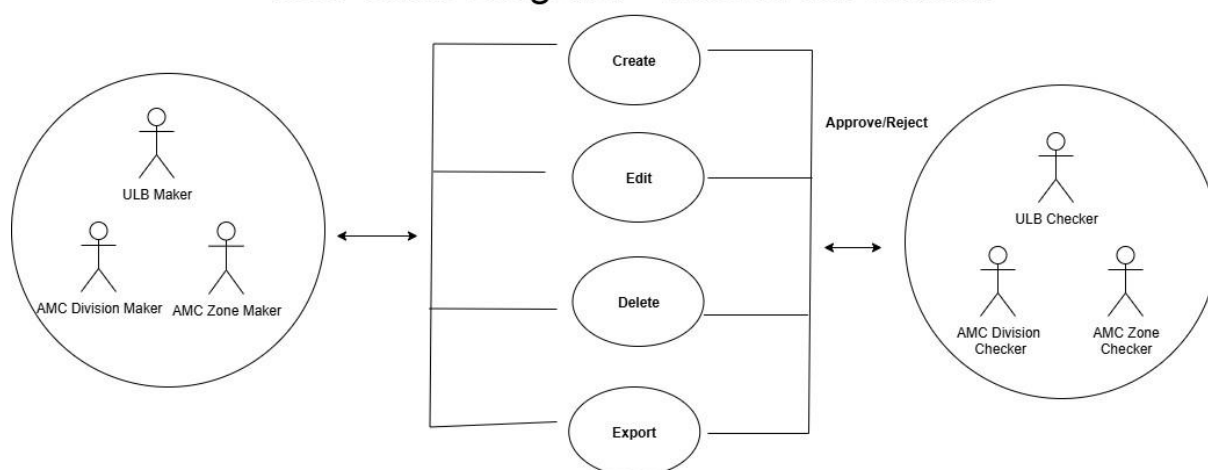
Use Case Diagram - Workorder Master

Figure: Use-Case Diagram: Workorder Master

Phase 2**Workorder Closure:**

Workorders can be closed manually (via scripts) only when payments initiated against the workorder are not in a pending state.

WO can be closed at anytime including a scenario where there is a pending amount.

Alert to be given to user on screen to proceed for closure.

When a new year budget is created, system will prompt to close all existing work orders manually or auto, for manual close an script is to be executed and for autom system will take care upon confirmation from user and ensure limits are managed.

Sub Workorder:

If a Workorder is exhausted, a new Sub-Workorder can be created against the main Workorder. Sub-Workorders can only be created for active Workorders.

Workorder Amount Freeze:

Whenever a Workorder is created, its amount will be frozen, even if transactions are pending against it. The system will validate the available limit when creating a new Workorder (Available Limit = Total Available Limit – All Pending Workorder Payments). Users will not be able to create a Workorder if sufficient funds are not available.

If the WO is closed with pending amount, limit should get released.

Project Wise Child Allocation CR :**As-Is (Current Logic):**

Currently, the workorder module for Child ULB users allows them to create workorders against the limits allocated to them through the Zone & Division Master.

Within the workorder module, the Child ULB user selects a project from the available project list. Based on the selected project, the system displays the available payment limit, which is calculated using the existing **60:40:25 allocation formula** configured in the system to create new workorders.

Currently, the available limit for Work Order creation is calculated by first deducting the amount allocated to Child ULB users from the ULB's available allocation. After this deduction, the system applies the configured project-wise allocation formula to determine the final available limit for Work Order creation.

As a result, the ULB can create Work Orders only up to the limit calculated after considering both the Child ULB allocations and the applicable project-wise formula.

The utilization for each project is calculated based on the configured allocation formula and the cumulative value of Work Orders already created under that project.

To-Be (Future Logic):**For Child ULB Users**

The Work Order Master will be modified to display the entire available allocated limit to the Child ULB across all applicable projects. The existing project-wise allocation formula and calculations will be removed from the Work Order creation process.

Instead, the available limit will be determined solely based on:

- The total limit allocated to the Child ULB.
- The utilization already incurred through previously created Work Orders.

The available balance will be reduced only by actual Work Order utilization, irrespective of the scheme or project.

For Parent ULB Users

The Work Order Master will be enhanced to consider allocations made to Division and Zone levels while calculating the available limit project wise.

The available limit for Work Order creation will be calculated by:

Starting with the total allocation available to the Parent ULB.

Applying the 60:40:25 formula.

Deducting the limits allocated to Division and Zone users from applicable project.

Deducting the utilization already incurred through Work Orders.

This will ensure that the available balance accurately reflects the funds retained by the Parent ULB after downstream allocations have been made.

2.1.16 Ward Master

Ward details will be used while creating a working work order

Create, Modify, Delete, Search, Export ward

There will be a Ward wise transaction and utilization Report

Use case Diagram - Ward Master

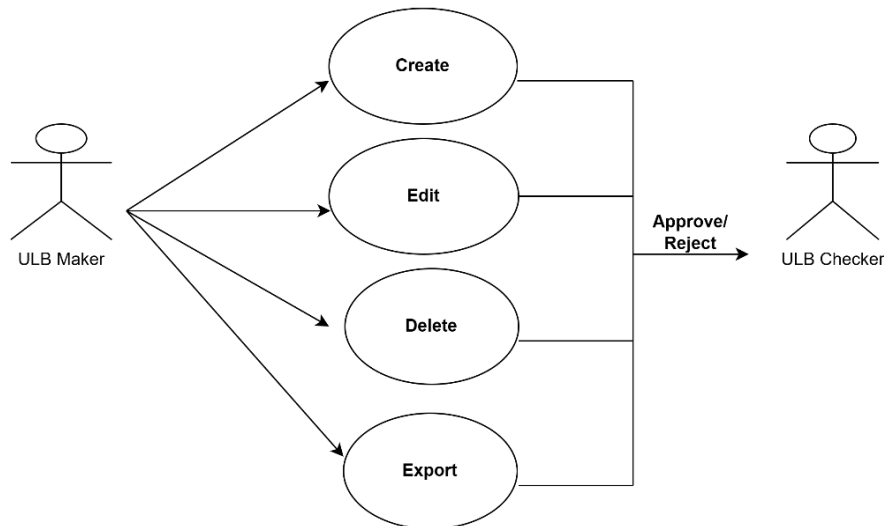


Figure: Use-Case Diagram: Ward Master

2.1.18 Audit Report

Audit Trail Reports of User, Accounts, Work order, Payee master are maintained through audit report.

Phase 2

Role master, Budget Master & ULB Master are maintained through the audit report.

Audit Trail Reports

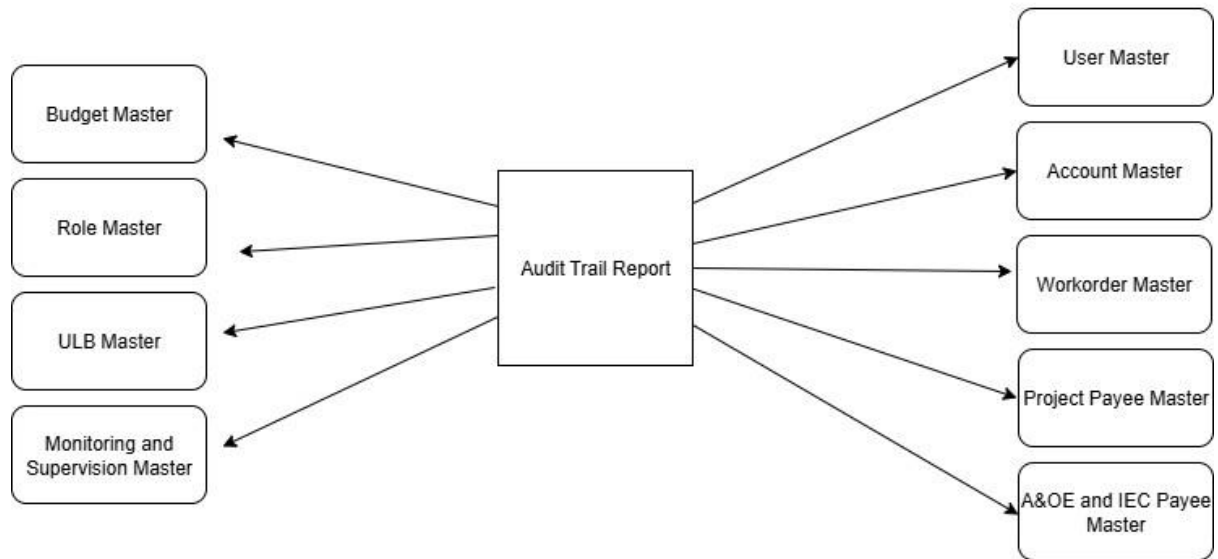


Figure: Audit Trail Report- Extractions

2.1.19 ULB Master

A new module, ULB Master, has been introduced. In the previous GFMS version, ULBs were created from the Account Master module. For better feasibility, this new module has been added. There is also a provision to add child ULBs.

For creating a ULB, the user needs to provide the following data:

1. ULB Name
2. Population
3. Area
4. Latitude
5. Longitude
6. District
7. State
8. Add Children (if applicable)

Use case Diagram - ULB Master

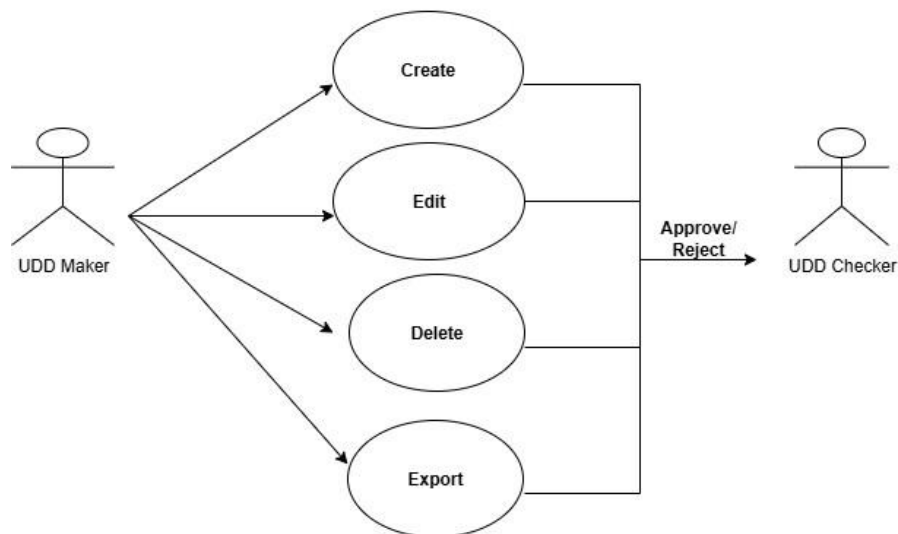


Figure: Use Case Diagram – ULB Master

2.1.20 Adjustment/Return

We require a Return and Late Return Transaction Adjustment Module as part of our process. As per the current process, an actual return transaction will be automatically marked as a return in the NEFT system.

Query:- Adjustment module for fresh UTR cases- Already part of Phase 1 requirement, to be delivered now.

Reply:- Yes, this was part of the Phase 1 requirements, but there are now changes to the modules according to the new BRD..

The GFMS system will call the NEFT transaction inquiry API to retrieve the transaction status from the NEFT system and mark the transaction as either "Success" or "Failed" based on the response. If a transaction is marked as "Failed," the limit will be revised accordingly.

In the case of a Late Return, the transaction will remain in a Deemed Success status in GFMS system.

As of now if the transaction is Failed or Returned with the same UTR then GFMS reset the limit and adjust the transaction. There will be common adjustment module for all the modules 3 payments but for Monitoring payment only limit will reset and for other two

payment type reversal will also take place. There will maker checker concept for single & bulk reversal.

Before initiating the reversal transaction check the BOD process is completed on the CBS side.

This marking can be done at any time. BOD process completion check at CBS required only when transactions are being marked post GFMS system BOD.

Before EOD

In the Adjustment module, all pending NEFT transactions (whose statuses are not updated due to fresh UTR) will be displayed. The Ops team can manually mark these transactions as either Successful or Returned by entering the fresh UTR. This scenario applies before EOD. If the transaction is returned before EOD then no need to transfer returned amt to UDD.

There will be a provision to mark the records in bulk, for which a template will be available at the application level.

After EOD:

If a transaction is returned with the same UTR after the EOD, then the returned amount should be transferred to the UDD account at BOD, and its status should be marked as a Reversal Transaction.

GFMS will need to check the CBS BOD status before proceeding to call limit update API.

Note- If a NEFT transaction has been successfully initiated from the bank side, it should be displayed as deemed successful everywhere in the GFMS system, instead of showing as pending

Use Case Diagram - Adjustment/Return

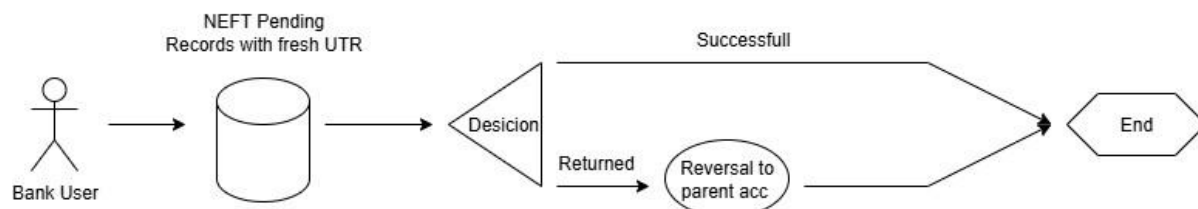


Figure: Use Case Diagram – Adjustment/Return

2.1.21 Sweep Master

In case of a technical error, sweep execution will not take place. A message will pop up on the Sweep Master stating:

“There is a technical error transaction in the queue. Please clear it first before executing the sweep.”

After the EOD time, no payments can be initiated or approved. There will be a 30-minute cooling period for the transactions that have already taken place, allowing their statuses to be updated.

In case, the sweep is successful for only partial accounts (Example: for 10 ULB accounts out of the total 20 ULB accounts), these pending sweep requests will be queued and available in a front-end screen for manual re-trigger by the Operations team.

Post manual re-trigger, Sweep will be executed for only the remaining ULB accounts. The system should first call the Transaction Inquiry API after a manual re-trigger.

If the transaction is not available in the CBS, then the system should proceed to call the Transaction API to re-initiate the transaction

2.1.22 Limit Master

Fund allocations will be available for export and each individual allocation fund, as well as the consolidated fund allocation for the financial year, will be included.

On BOD, via service, the limit will be set against the ULB OD accounts. The limit will be equal to the unutilized balance of the respective ULB.

In case, due to any specific reason, the limit is not set, the Ops team can trigger the limit from the Limit Master module for the ULB whose limit was not set in CSB due to technical failure.

The limit balance cannot be changed by the Ops user; it will only be a read-only field. An audit trail will be maintained to keep track of the limit set for each day.

GFMS will need to check the CBS BOD status before proceeding to call limit update API.

2.1.23 Dashboard

An Interest Credit bar graph has been added to the dashboard so that UDD users can view the interest credited to the account for the current financial year as well as the previous financial year.

A financial year filter must be introduced to enable year-wise data viewing.

Project Wise Child Allocation CR :

As-Is (Current Logic):

Currently, the utilization amount for Child ULBs is calculated and displayed based on the limits allocated to them by the Parent ULB from its most recently allocated budget.

Project-wise available limits are determined using the system's configured project allocation formula. The displayed utilization and available balance for each project are calculated by considering both the allocated amount and the project-wise formula applicable within the system.

To-Be (Future Logic):

The Dashboard will be enhanced to display accurate **payment-wise utilization data** for both Parent ULB and Child ULB users.

Child ULB

- Utilization figures will be calculated based on actual allocations and transactions associated with the respective Child ULB.
- The existing project-wise allocation formula will be removed from dashboard calculations and visualizations as child can utilize all the allocated amount to a single project.

Parent ULB

- Amounts allocated to Child ULBs will no longer be deducted from the Parent ULB's overall budget allocation displayed on the dashboard.
- Instead, allocations made to Child ULBs will be reflected as deductions within the respective project-wise utilization and allocation visualizations, providing a more accurate representation of fund distribution and usage.

Dashboard Calculation Changes

- Remove all project-wise formula-based calculations currently used for utilization and available balance computation for child ulb.
- Ensure that dashboard charts, summaries, and project-wise visualizations accurately reflect the latest allocation and utilization data for Parent ULBs, Child ULBs, Zones, and Divisions, as applicable.

Expected Outcome

- Accurate payment-wise utilization reporting.
- Removal of project-wise formula dependencies from dashboard calculations for child ulbs.

2.1.24 Division/Zone Limit Master

A new module will be introduced for setting up the limits of Divisions and Zones. The provision for setting these limits will be given to ULBs, who can set limits only for their respective children. UDD can set limits for ULB children. This module will also follow the maker-checker concept.

The sum of the child limits should be less than or equal to the ULB limit. The limit will be set against each child by ULB or UDD through an entry field for Division/Zone. This will be a numeric field. ULB can view the allocation of funds between the children and the remaining balance that is not allocated to any Division/Zone. Payments can be made by AMC only from this remaining balance.

Note: Only for Project Payment for AOE/IEC Limit will be common among the ULB & it's Division/Zone

For example, if a ULB has a limit of 100 and distributes 80 among its children, then the remaining 20 will be the ULB's limit, and ULB cannot spend more than 20

ULB Name		AMC		
Sr No	Division/Zones	Limit		
1	Division 1	10		
2	Division 2	20	ULB Utilized Fund	100
3	Division 3	20	Distributed Fund	80
4	Zone 1	20	ULB remaining balance	20
5	Zone 2	10		
Total		80		

Project Wise Child Allocation CR :

As-Is (Current Logic):

Currently, the system allows a ULB to allocate limits to its Zones/Divisions through the Zone & Division Master using the amount most recently allocated to the ULB.

Once the ULB initiates a payment, further limit allocation to Zones/Divisions is restricted, and the allocation input field is disabled. To allocate additional limits, the ULB must first receive a new allocation through the Budget Master. After receiving the additional allocation, the ULB can distribute further limits to its Zones/Divisions.

To-Be (Future Logic):

The allocation process in the Zone & Division Master will be revised to provide greater flexibility and improve project-wise utilization tracking.

- The existing restriction that limits allocations based on the **most recently allocated budget amount** will be removed.
- A **Project dropdown** will be introduced in the allocation screen. Upon selecting a project, the system will display the corresponding **available limit** for that project.
- The current validation that restricts further allocations once a payment has been made by the ULB will be removed. ULB users will be able to allocate limits to Zones and Divisions at any time, regardless of whether payments have already been processed.
- A **Project ID** will be captured and maintained as part of the allocation and utilization process to enable accurate project-wise tracking and auditability.
- Project-wise utilization logs will be maintained for allocations and expenditures at the **Zone** and **Division** levels, ensuring transparent monitoring of fund utilization across projects.

2.1.25 System generated alert / events

Email integration- To ensure that a transaction notification and OTP are sent to the email address if it is available.

Incorporate Email services whenever SMS or OTP has been implemented.

Whenever a transaction fails due to any technical reason, an email notification should be triggered to the defined email ID for necessary action

2.1.26 Reports

Limit Report

In the report, the following fields will be displayed:

- ULB Name
- Account number
- Effective Limit
- ULB Unutilized Limit
- Available Balance
- ELB Utilized Balance
- CBS Utilized Balance
- BS Utilized Balance – Utilized Balance
- **UPM – User Report for Audit:** A detailed user report shall be generated for audit purposes. All missing fields, as identified in the reference file, shall be added to ensure completeness.
- **Project Payment Report – TDS Details:** TDS details shall be displayed along with the main transaction, replacing the current hyperlink-only approach. The complete TDS information and **Debit Date** shall be included in the Excel report.
- **Transaction Report – Debit Date:** The **Debit Date** field shall be added to the Transaction Report and reflected in the downloadable Excel output.
- **A&OE and IEC Reports:** Users shall have a **download option** to export these reports.
- **Transaction Report – Failure Reason:** All reports shall display transaction failure reasons clearly, and this information must also be included in the downloaded reports for easy identification.

Project Wise Child Allocation CR :

As-Is (Current Logic):

Currently, the utilization amount for Child ULBs is calculated and displayed based on the limits allocated to them by the Parent ULB from its most recently allocated budget.

Project-wise available limits are determined using the system's configured project allocation formula. The displayed utilization and available balance for each project are calculated by considering both the allocated amount and the project-wise formula applicable within the system.

To-Be (Future Logic):

The Reports will be enhanced to display accurate **payment-wise utilization data** for both Parent ULB and Child ULB users.

Child ULB

- Utilization figures will be calculated based on actual allocations and transactions associated with the respective Child ULB.
- The existing project-wise allocation formula will be removed from reports calculations as child can utilize all the allocated amount to a single project.

Parent ULB

- Amounts allocated to Child ULBs will no longer be deducted from the Parent ULB's overall budget allocation displayed on the dashboard.
- Instead, allocations made to Child ULBs will be reflected as deductions within the respective project-wise utilization and allocation reporting, providing a more accurate representation of fund distribution and usage.

Reports Calculation Changes

- Remove all project-wise formula-based calculations currently used for utilization and available balance computation for child ulb.

NOTE: - For Phase 2, please provide a copy of the current UAT database, as significant mapping changes will be required according to the Phase 2 BRD. The Phase 2 script changes can then be executed on this copy, and we will also have one backup available.

2.2 System Features & Functionalities

- **Authentication & Authorization:**

Users have to key in User id and password along with captch to login to application. GFMS, Users can access the system based on role assigned only, therefore a user can only access module they are assigned to access via roles. As GFMS is designed as Role Based Access System.

On development side GFMS designed to handle SQL injection.

Cross-Origin Resource Sharing (CORS) – Control which domains can access APIs.

Example: Restrict API access to trusted domains.

- **User Management** (Admin, Customer, Guest)

User management is done via Maker, Checker process as user with maker access can create record and another user with checker access can approve the record, users can access the system only after their record is approved.

- **Data Handling & Storage** (PII, Encryption)
- **API Integrations** (Third-party services)
- **Notifications & Alerts** (Email, SMS, Push Notifications)
- **Business Logic & Workflows**
- **Login-page**

Password field does not have view option to verify inputted value

Captcha refresh option required in case of wrong input

2.3 Financial Year Handling & Budget Management

1. Precondition for Creating a New Budget

Before creating a new financial year budget, ensure the following conditions are met:

- Transaction Status Verification:
 - All previous year transaction records across all three payment modules must have a status of Successful, Rejected, or Failed.
- Work Order Closure:
 - All previous year Work Orders must be in Closed status.
 - Verification can be done through system code or by executing a script.

2. Creating an Approximate Budget for the New Financial Year

- Outstanding Amount Visibility:
 - While creating a new approximate budget, the system should display the outstanding balance from the previous year.
 - Three new columns will be added to the Budgets Master Grid to show outstanding amounts.
 - For the first budget allocation, only the outstanding balance will be displayed.
 - Users can continue to check the previous year's outstanding balance through the approximate budget module.
- Disabling Payment Modules:
 - If an approximate budget is created for the new financial year but fund allocation has not been completed, the Add button in all three payment modules must be disabled to prevent new payments.

3. Reports Displaying Financial Year-wise Data

The following reports should display data according to the selected financial year:

- Project Payment Report
- ULB Fund Management Report
- Ward-wise Transaction and Utilisation Report
- Work Order Report
- ULB-wise Utilisation Report
- Sub-Project Utilisation Report
- Project Utilisation Report
- Budget Report

4. Contingency Approach

- a. This will be a **temporary** approach for a short period until the permanent solution is deployed.
- b. This approach will require script execution, during which new columns and some stored procedures will be updated.
- c. The approximate budget and fund allocation will be done via an insert query, as the **Work Order** and **Project** payment available limit is populated based on the approximate budget.
- d. Once the **permanent** patch is ready for deployment, we will need to migrate the contingency solution again to work with the production patch.
- e. The contingency solution will not include report changes.

2.4 Security Related – Infosec Requirement (IR)

Banner Display:

- The login page shall feature a fixed banner section for cyber security awareness messages.
- Banners shall rotate automatically every X seconds. If multiple banners exist, users shall have radio button controls to navigate between them (refer example: Bandhan Bank Retail).
- Admin shall be able to add, update, or remove banner messages without code changes, with a maximum of 5 banners.
- Banners must align with the application's UI/UX standards, comply with accessibility guidelines for visibility and contrast, and not obstruct login fields or other page elements.
- Banner display must not significantly impact page loading time and must be consistent across all supported browsers and devices.

- The same banner functionality shall be implemented in the Mobile Application.

Security Tips:

- A Security Tips link shall be available on the login page.
- Clicking the link shall open a page displaying the relevant security content.
- Admin shall be able to update this content without code changes.
- The same Security Tips functionality shall be implemented in the Mobile Application.

2.5 Screens & Navigation Flow

Following Figure shows application-level Data Flow Diagram:

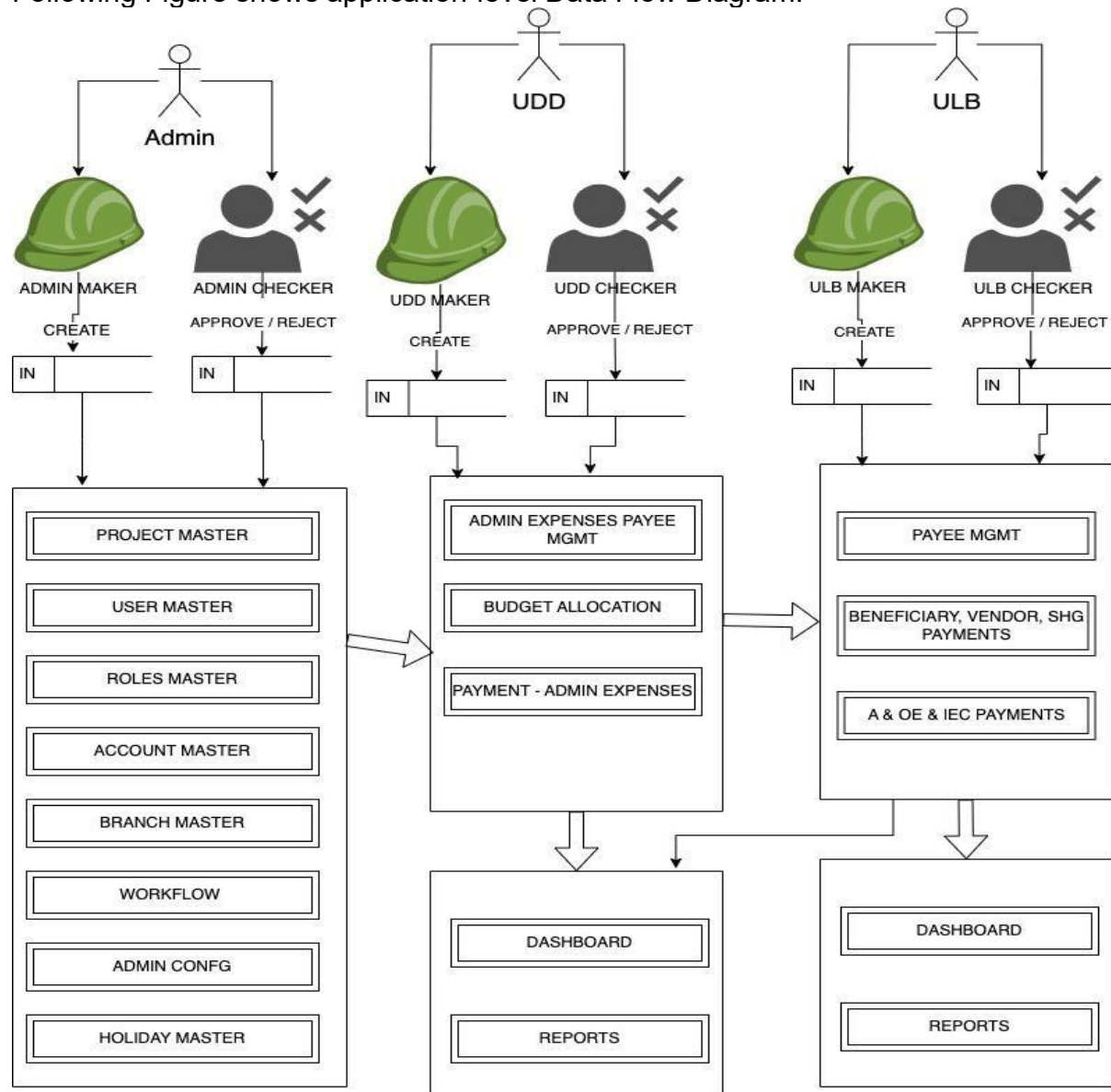


Figure: Application-Level Data Flow Diagram

2.5.1 Role Master

Following shows the UI diagram for Role Master:

Role Name* SupAdm Checker Status* Active

Search Module Name

Modules	Add	Edit	View	Delete	Checker	Import	Export
Account Master	☒	☒	☒	☒	☒	☒	☒
Role Master	☒	☒	☒	☒	☒	☒	☒
User Master	☒	☒	☒	☒	☒	☒	☒
Branch Master	☒	☒	☒	☒	☒	☒	☒
Holiday Master	☒	☒	☒	☒	☒	☒	☒
WorkFlow Config	☒	☒	☒	☒	☒	☒	☒
Project Master	☒	☒	☒	☒	☒	☒	☒
Budget Master	☐	☐	☐	☐	☐	☐	☐
Work Order Master	☐	☐	☐	☐	☐	☐	☐
Admin Config Master	☐	☒	☒	☐	☒	☐	☐
Ward Master	☐	☐	☐	☐	☐	☐	☐

Figure: Edit Role Master

2.5.2 User Master

Following shows the UI diagram for User Master:

User Name Login Id Phone User Type Created By

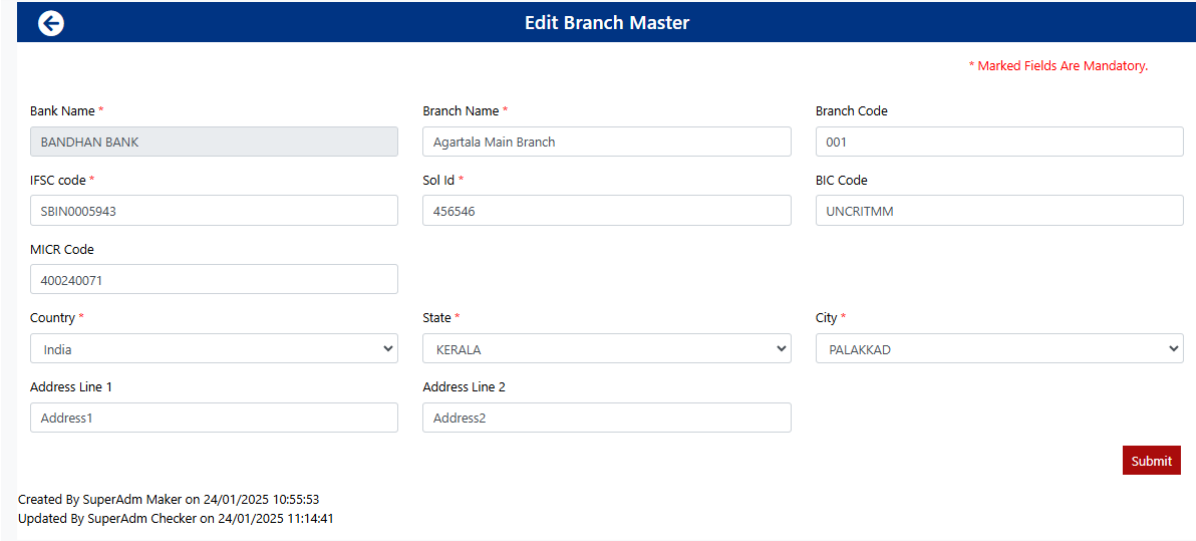
Request Type Status Created Date

User Name	Login Id	Phone	Role	Request Type	Status	Created By	Created / Updated Date & Time	User Type	Action
ULB user	ulb36	8952320200	checker	Edit Approved	Active	SuperAdm	14-01-2025 07:08 PM	Bank User	
Gaurav super Checker	gaurav15	8989898095	SupAdm Checker	Edit Approved	Active	pooja	04-01-2025 12:16 PM	Bank User	
udd Checker	udd32	8534355555	UDD Checker	Edit Approved	Active	pooja	03-01-2025 06:46 PM	Government Official	
UDD User	udd38	8054203256	UDD Maker	Edit Approved	Active	pooja	03-01-2025 06:38 PM	Government Official	
pooja maker	ulb1maker65	7303192157	ULB Maker	Edit Approved	Active	SuperAdm	03-01-2025 01:57 PM	Government Official	
Anshuman checker	ulb16checker62	8945621578	ULB Checker	Add Approved	Active	pooja	03-01-2025 01:12 PM	Government Official	
Reet maker	ulb20maker37	9745625852	ULB Maker	Add Approved	Active	pooja	03-01-2025 01:11 PM	Government Official	
Reet checker	ulb20checker20	9025820325	ULB Checker	Add Approved	Active	pooja	03-01-2025 01:11 PM	Government Official	
jessy maker	ulb19maker44	9050502030	ULB Maker	Add Approved	Active	pooja	03-01-2025 01:11 PM	Government Official	
Jessy checker	ulb19checker26	9080504020	ULB Checker	Add Approved	Active	pooja	03-01-2025 01:11 PM	Government Official	

Figure: User Master

2.5.3 Branch Master

Following shows the UI diagram for Branch Master:

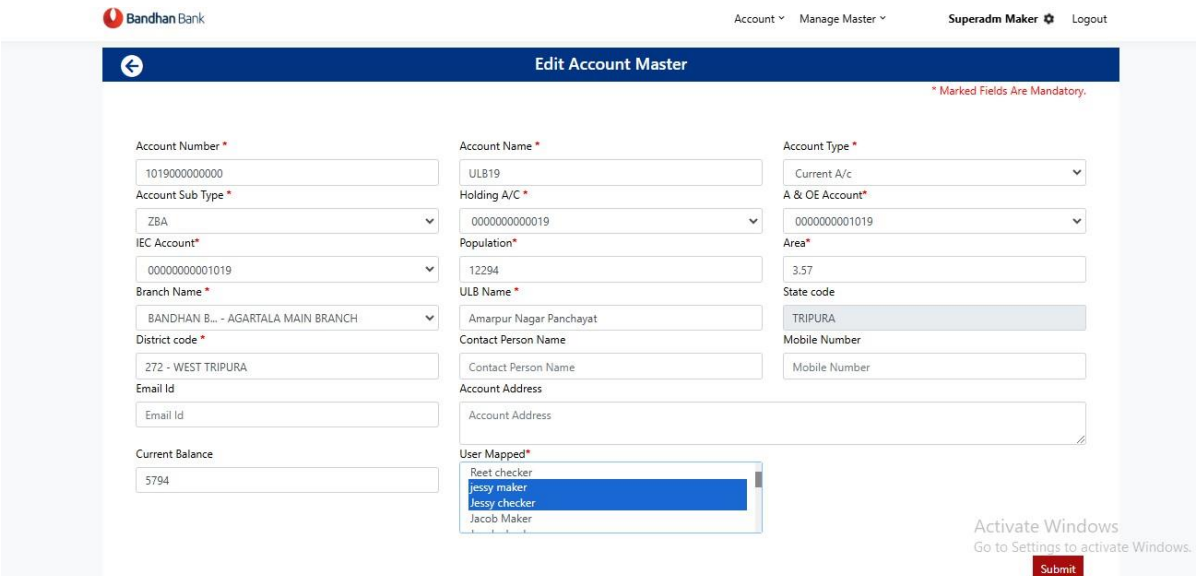


The 'Edit Branch Master' form is a web-based interface for managing branch information. It features a blue header bar with a back arrow and the title 'Edit Branch Master'. A red asterisk note indicates that marked fields are mandatory. The form is organized into three columns. The first column contains 'Bank Name' (a dropdown menu showing 'BANDHAN BANK'), 'IFSC code' (a text field with 'SBIN0005943'), 'MICR Code' (a text field with '400240071'), 'Country' (a dropdown menu showing 'India'), and 'Address Line 1' (a text field with 'Address1'). The second column contains 'Branch Name' (a text field with 'Agartala Main Branch'), 'Sol Id' (a text field with '456546'), 'State' (a dropdown menu showing 'KERALA'), and 'Address Line 2' (a text field with 'Address2'). The third column contains 'Branch Code' (a text field with '001'), 'BIC Code' (a text field with 'UNCRITMM'), and 'City' (a dropdown menu showing 'PALAKKAD'). A red 'Submit' button is located at the bottom right. At the bottom left, there is a footer with the text: 'Created By SuperAdm Maker on 24/01/2025 10:55:53' and 'Updated By SuperAdm Checker on 24/01/2025 11:14:41'.

Figure: Edit Branch Master

2.5.4 Account Master

Following shows the UI diagram for Account Master:



The 'Edit Account Master' form is a web-based interface for managing account information. It features a blue header bar with a back arrow and the title 'Edit Account Master'. A red asterisk note indicates that marked fields are mandatory. The form is organized into three columns. The first column contains 'Account Number' (a text field with '1019000000000'), 'Account Sub Type' (a dropdown menu showing 'ZBA'), 'IEC Account' (a dropdown menu showing '0000000001019'), 'Branch Name' (a dropdown menu showing 'BANDHAN B... - AGARTALA MAIN BRANCH'), 'District code' (a text field with '272 - WEST TRIPURA'), 'Email Id' (a text field with 'Email Id'), and 'Current Balance' (a text field with '5794'). The second column contains 'Account Name' (a text field with 'ULB19'), 'Holding A/C' (a dropdown menu showing '000000000019'), 'Population' (a text field with '12294'), 'ULB Name' (a text field with 'Amarpur Nagar Panchayat'), 'Contact Person Name' (a text field with 'Contact Person Name'), 'Account Address' (a text field with 'Account Address'), and 'User Mapped' (a dropdown menu showing 'Reet checker', 'jessy maker', 'jessy checker', and 'Jacob Maker'). The third column contains 'Account Type' (a dropdown menu showing 'Current A/c'), 'A & OE Account' (a dropdown menu showing '0000000001019'), 'Area' (a text field with '3.57'), 'State code' (a text field with 'TRIPURA'), 'Mobile Number' (a text field with 'Mobile Number'), and 'Mobile Number' (a text field with 'Mobile Number'). A red 'Submit' button is located at the bottom right. At the bottom left, there is a footer with the text: 'Activate Windows' and 'Go to Settings to activate Windows.'

Figure: Edit Account Master

2.5.5 Holiday Master

Following shows the UI diagram for Holiday Master:

The image shows a web application interface for "Add Holiday Master". At the top, there is a navigation bar with the Bandhan Bank logo, "Account", "Manage Master", "Superadm Maker", and "Logout". Below this is a blue header bar with a back arrow and the title "Add Holiday Master". The main content area is titled "Select Holiday Duration" and includes two radio buttons: "One Day" (selected) and "Multi Day". Below these are three input fields: "Date*" with a calendar icon and placeholder "DD-MM-YYYY", "Holiday Type*" with a dropdown menu showing "Select Holiday Type", and "Holiday*" with a text input field containing "Holiday". There is also a "Mark Holiday As Working*" dropdown menu with "No" selected. A red asterisk note states "* Marked Fields Are Mandatory." A red "Submit" button is located at the bottom right.

Figure: Add Holiday Master

2.5.6 Admin Config Master

Following shows the UI diagram for Admin Config Master:

The image shows a web application interface for "Admin Config Master". At the top, there is a navigation bar with the Bandhan Bank logo, "Account", "Manage Master", "Dashboard", "Reports", "Superadm Maker", and "Logout". Below this is a blue header bar with the title "Admin Config Master". The main content area contains a grid of input fields for various configuration parameters, each with a red asterisk indicating it is mandatory. The fields are: "Monitoring and Supervision Expenses %" (value 5), "A & OE %" (value 1.5), "IEC %" (value 1), "Area Weightage %" (value 25), "Tax Weightage %" (value 5), "Audit Weightage %" (value 5), "Population Weightage %" (value 65), "BOD" (value 10:00 AM), "EOD" (value 06:34 PM), "Auth Finger Print Amount" (value 100), "SHG Reserve %" (value 12), and "Review Status" (dropdown menu showing "Edit Approved"). A red asterisk note states "* Marked Fields Are Mandatory." A red "Submit" button is located at the bottom right. At the bottom left, there is a small text string: "Updated By SuperAdm on 12/02/2025 16:57:09".

Figure: Admin Config Master

2.5.7 Project Master

Following shows the UI diagram for Project Master:

The screenshot displays the 'Edit Project Master' form in the Bandhan Bank Superadm Maker interface. The form includes fields for Project Name (Routine Essential Works), Project Code (REW), Remarks (Test), and Component/Sub Head Name (Project Sub Head). A table lists components with their status and actions. A 'Submit' button is at the bottom right.

Project Name *
Routine Essential Works

Project Code *
REW

Upload Office Order Letter
Choose File 20.06.24_MM-NUP_R...28e3_13-01-2025.pdf

Remarks
Test

Component/Sub Head Name *
Project Sub Head

+ Add

Component/Sub Head Name	Status	Action
Regular work	Active	
Periodic work	Active	

Submit

Figure: Project Master

2.5.8 Workflow Config

Following shows the UI diagram for Workflow Config:

The screenshot displays the 'Workflow Config' form in the Bandhan Bank Superadm Maker interface. The form includes fields for Workflow Module (Payments), Workflow Stage Name, Workflow Stage Number, Approve Button Name, Reject Button Name, and Stage Number After Rejection. A table lists workflow stages with their names, numbers, and actions. A 'Submit' button is at the bottom right.

Workflow Module *
Payments

Workflow Stage Name *

Workflow Stage Number *

Approve Button Name *

Reject Button Name *

Stage Number After Rejection

Roles Parameters
ULB Maker
SupAdm Checker
ULB Checker
Maker

+ Add

Module Name	Stage Name	Stage Number	Approve Button Name	Reject Button Name	Stage Number After Rejection	Role Name	Delete
Payments	Rejected	0			0		
Payments	Inserted	1			0	ULB Maker	
Payments	Approval Pending O	2	Approve	Reject	0	ULB Checker	
Payments	Approval PendingT	3	Approve	Reject	0	ULB Checker	
Payments	Approved	4			0		

Submit

Figure: Workflow Config

2.5.9 Budget Master

Following shows the UI diagram for Budget Master:

Bandhan Bank Manage Master Dashboard Reports Payments Udd User Logout

Add Budget Master

Financial Year * 2024-2025 Approximate Budget 10000 View Calculation

Budget Allocation

SR.No	Name of the ULBs	Total Fund received (Rs. In INR)	Monitoring and Supervision Expenses	Fund to be allocated	Population	Area (sqKm)	Property Tax Collection Status	Audited Annual Accounts Status	Allocated Fund to ULBs
1	2	3	4	5	6	7	8	9	
1	Agartala Municipal Corporation	10,000.00	50.00	9,950.00	580,126	90.2140	✓	✓	4,907.64
2	Amarpur Nagar Panchayat				12,294	3.5700	✓	✓	169.94
3	Ambassa Municipal Council				16,073	14.7720	✓	✓	311.92
4	Belonia Municipal Council				21,433	5.7400	✓	✓	254.25
5	Bishalgarh Municipal Council				22,152	9.3310	✓	✓	296.43
6	Dharmanagar Municipal Council				48,822	10.6900	✓	✓	490.78
7	Jirania Nagar Panchayat				13,698	4.4500	✓	✓	188.57
8	Kailashahar Municipal Council				24,926	6.1900	✓	✓	282.53
9	Kamalpur Nagar Panchayat				12,120	10.1000	✓	✓	236.64
10	Khowai Municipal Council				21,823	6.8190	✓	✓	268.10
11	Kumarghat Municipal Council				15,223	3.5000	✓	✓	189.00
12	Melaghar Municipal Council				20,064	17.9907	✓	✓	372.34
13	Mohanpur Municipal Council				20,041	19.7750	✓	✓	390.74
14	Panisagar Nagar Panchayat				11,371	3.0000	✓	✓	157.77
15	Ranirbazar Municipal Council				17,331	3.5950	✓	✓	204.23
16	Sabroom Nagar panchayat				6,954	5.0996	✓	✓	149.75
17	Santirbazar Municipal Council				15,285	9.7800	✓	✓	254.70
18	Sonamura Nagar Panchayat				13,166	4.1300	✓	✓	181.65
19	Teliamura Municipal Council				25,134	4.4500	✓	✓	265.85
20	Udaipur Municipal Council				39,071	6.1000	✓	✓	377.18
Total		10,000.00	50.00	9,950.00	957,107	239.2963	20	20	9,950.00

Submit

Figure: Budget Master

2.5.10 Ward Master

Following shows the UI diagram for Ward Master:

Bandhan Bank Manage Master Reports Payments Aditya Maker Logout

Add Ward Master

* Marked Fields Are Mandatory.

Ward Number * Ward Name * ULB *

Ward01 Ward 1 Panisagar Nagar Panchayat

Submit

Figure: Add Ward master

2.5.11 Work Order Master

Following shows the UI diagram for Work order Master:

The screenshot shows the 'Authorize Work Order Master' form. At the top, there's a navigation bar with 'Bandhan Bank' logo, 'Manage Master', 'Reports', 'Payments', 'Aditya Checker', and 'Logout'. The form title is 'Authorize Work Order Master'. A note says '* Marked Fields Are Mandatory.' The form fields are arranged in a grid:

- Project Name * (dropdown: Basic Urban Services)
- Sub Project Name * (dropdown: Urban Roads)
- Work Order Number * (text: Bas-Urb-2025-Roads)
- Amount * (text: 250000)
- Work order Letter * (button: Choose File, status: No file chosen)
- Download (button)
- Work Order Created By * (text: Aditya)
- Work Order Approve By * (text: Saurabh)
- ULB (text: Panisagar Nagar Panchayat)
- Ward * (dropdown: W1)
- Work Type * (text: Urban roads)
- Start Date * (calendar: 24-01-2025)
- To Date * (calendar: 01-02-2025)
- WO Man Days * (text: 9)
- Status * (dropdown: Select Status, with options: Select Status, Approved, Rejected)

At the bottom right, there's a 'Verify' button and a Windows watermark: 'Activate Windows Go to Settings to activate Windows.' A footer note says 'Created by Aditya maker on 24/01/2025 17:52:11:16'.

Figure: Work order Master

2.5.12 Project Payee Master

Following shows the UI diagram for Payee Master:

The screenshot shows the 'Edit Payee Master' form. At the top, there's a navigation bar with 'Bandhan Bank' logo, 'Manage Master', 'Reports', 'Payments', 'Aditya Maker', and 'Logout'. The form title is 'Edit Payee Master'. A note says '* Marked Fields Are Mandatory.' The form fields are arranged in a grid:

- Payee Title * (dropdown: Mrs.)
- Payee Name * (text: Vendor)
- Payee Type * (dropdown: Vendor)
- Email Id (text: Email Id)
- Mobile Number * (text: 8956520256)
- Address (text: Address)
- Bank Name * (text: Axis)
- Bank Account Number * (text: 00202000000000000000)
- IFSC Code * (text: SBIN0005943)
- PAN (text: AFZPK7190K)
- TAN (text: ABCD1552345K)
- GSTIN * (text: 22AAAAA000)

At the bottom right, there's a 'Submit' button. A footer note says 'Created By Aditya maker on 24/01/2025 16:17:34'.

Figure: Edit payee master

2.5.13 Vendor Project Payment

Following shows the UI diagram for Project Payment for Vendor:

Bandhan Bank

Anshuman Maker Logout

Project Payments

ULB Name
Kamalpur Nagar Panchayat

Vendor*
NEFT vendor3

CGST*
10

Office order/Invoice number*
A101

MM-NUP Project Name*
Basic Urban Services
Available Limit : 1,390,255.21

Work Order*
Bas-Str-2025-lights
WorkOrder Amount : 24999953

SGST*
10

Upload Invoice/Office Order*
Choose File UploadMonitoringAn...persionPayment.xlsx

Project Sub-Head*
Street Lights

Net Amount*
100

IGST*
10

Remark*
Transaction added

Payee Type*
☒ Vendor ☐ Beneficiary ☐ SHG

IT*
10

Total Tax : 50

Security Deposit*
10

Show 5 Entries

+ Add

Bulk Upload Payments

Search

Project Name	Project Sub-Head	Work Order	Credit A/C Number	Credit A/C Name	Job Card Number	Net Amount	IT	CGST	SGST	IGST	Sec Dep	Remark	Status	Action
Routine Essential Works	Periodic work	Rou-Per-2025-pp	789658965852558	add reject audit	TESTJOB CARD	12	0	0	0	0	0	test	Approval Pending O	

Showing 1 to 5 of 1 entries

Activate Windows
Go to Settings to activate Windows.
Page 1 of Total page 1

Figure: Vendor Project Payment

2.5.14 Beneficiary Project Payment

Following shows the UI diagram for Project Payment for Beneficiary:

Bandhan Bank

Anshuman Maker Logout

Project Payments

ULB Name
Kamalpur Nagar Panchayat

Beneficiary*
FT beneficiary

Remark*
Transaction added

MM-NUP Project Name*
Basic Urban Services
Available Limit : 1,390,255.21

Work Order*
Bas-Str-2025-lights
WorkOrder Amount : 24999953

Project Sub-Head*
Street Lights

Net Amount*
100

Payee Type*
☐ Vendor ☒ Beneficiary ☐ SHG

Job Card Number*
GFBSh-(0000157)/25/02

Show 5 Entries

+ Add

Bulk Upload Payments

Search

Project Name	Project Sub-Head	Work Order	Credit A/C Number	Credit A/C Name	Job Card Number	Net Amount	IT	CGST	SGST	IGST	Sec Dep	Remark	Status	Action
Routine Essential Works	Periodic work	Rou-Per-2025-pp	789658965852558	add reject audit	TESTJOB CARD	12	0	0	0	0	0	test	Approval Pending O	

Showing 1 to 5 of 1 entries

Activate Windows
Go to Settings to activate Windows.
Page 1 of Total page 1

Figure: Beneficiary Project Payment

2.5.15 SHG Project Payment

Following shows the UI diagram for Project Payment for SHG:

The screenshot shows the 'Project Payments' form in the Bandhan Bank system. The form is titled 'Project Payments' and includes the following fields:

- ULB Name: Kamalpur Nagar Panchayat
- MM-NUP Project Name: Routine Essential Works (Available Limit: 5,915,978.13)
- Sub-Head: Regular work
- Payee Type: Vendor, Beneficiary, SHG (selected)
- SHG: shg
- Work Order: Rou-Reg-2023-regSHG (WorkOrder Amount: 900)
- Amount: 50 (SHG Reverse Amount: 50)
- Remark: Transaction added

At the bottom right, there is a '+ Add' button. The form also includes a 'Show 5 Entries' option.

Figure: SHG Project Payment

2.5.16 A&OE and IEC Payee Master

Following shows the UI diagram for A&OE and IEC Payee Master:

The screenshot shows the 'Add A & OE and IEC Payee Master' form in the Bandhan Bank system. The form is titled 'Add A & OE and IEC Payee Master' and includes the following fields:

- Payee Title: Ms.
- Payee Name: Test
- Payee Type: A & OE
- Email Id: Email Id
- Mobile Number: 9809985620
- Address: Address
- Bank Name: Bandhan
- Bank Account Number: 0020520252000250
- IFSC Code: BDBL0001253
- Aadhaar Number: 789465252552

At the bottom right, there is a 'Submit' button. A note at the top right states: '* Marked Fields Are Mandatory.' The form also includes a 'Show 5 Entries' option.

Figure: Add A&OE and IEC Payee Master

2.5.17 A&OE and IEC Payments

Following shows the UI diagram for A&OE Payments:

Bandhan Bank

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾ Anshuman Maker Logout

A & OE and IEC Payments

ULB Name: Kamalpuri Nagar Panchayat

Payee Type*: A & OE

Select Payee*: Ms.AOE1

Amount*: 100

Remark*: Transaction added

Available Limit : 354,859.00

Show 5 ▾ Entries

+ Add

Figure: Add A&OE Payment

Following shows the UI diagram for IEC Payments

Bandhan Bank

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾ Anshuman Checker Logout

A & OE and IEC Payments

ULB Name: Kamalpuri Nagar Panchayat

Payee Type*: All

Select Payee*: --Select--

Amount*: Amount

Remark*: Remark

Show 5 ▾ Entries

+ Add

Bulk Upload Payments Search

Payee Type	Payee Name	Amount	Remark	Status	Verify
A & OE	Ms.AOE1	100	Transaction added	Approval Pending	✓ ✗

Figure: Add IEC Payment

2.5.18 Monitoring and Supervision Payee Master

Bandhan Bank

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾ Udd User Logout

Edit Monitoring and Supervision Payee

* Marked Fields Are Mandatory.

Payee Title*: Mrs.

Payee Name*: Akash

Email Id: Email Id

Mobile Number: Mobile Number

Payee Type*: Beneficiary

Address: Address

Bank Name*: Bandhan bank

Bank Account Number*: 0025698565202

IFSC Code*: GFBS0000157

Job Card Number*: GFBSH-(0000157)/25\02

Submit

Created By UDD User on 11/02/2025 18:43:05
Updated By udd Checker on 11/02/2025 18:44:00

Figure: Edit Monitoring and Supervision Payee

2.5.19 Monitoring and Supervision Payments

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾
Udd User Logout

Monitoring and Supervision Payments

SNA Account Name
Agartala Main SNA
Available Limit : 1,199,778.00

Payee Name*
Mrs.Job new changes ▾

Net Amount*
100

Remarks*
Transaction added

Job Card Number*
GFBSh-(0000157)/25/02

Show 5 ▾ Entries

Add

Bulk Upload Payments Search

Payee Name	Credit Account Number	Credit IFSC	Net Amount	IT	CGST	SGST	IGST	Sec Dep	Job Card Number	Remark	Status	Action
Ms.Admin Vendor payee	2025232025202	GFB50000157	1	1	1	1	1	1	TESTJOB CARD	1	Approval	
Mrs.Job new changes	0025698565202	GFB50000157	1	0	0	0	0	0	GFBSh-(0000157)/25/02	1	Approval	

Showing 1 to 5 of 2 entries

1

Page 1 of Total page 1

Figure: Edit Monitoring and Supervision Payment

2.5.20 Dashboard

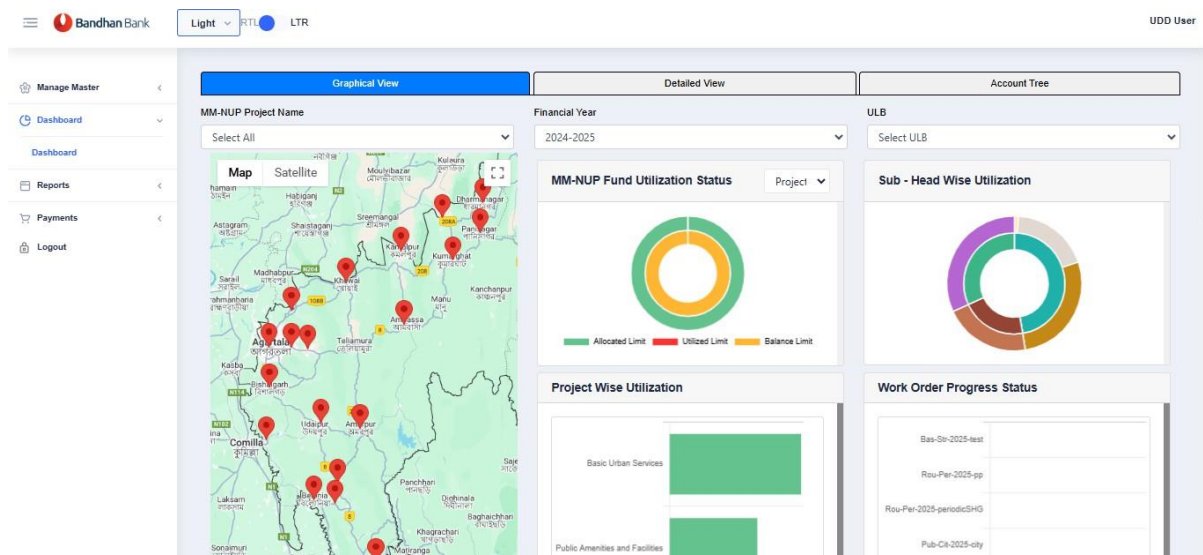


Figure: Dashboard Graphical View

2.5.21 Project Payments Report

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾ Anshuman Maker Logout

Project Payments Report

ULB Name
Kamulpur Nagar Panchayat ▾

Debit Account Number
Debit Account Number

Credit Account Number
Credit Account Number

From Date
DD-MM-YYYY

To Date
DD-MM-YYYY

Status
Enter Status

Search

Show ▾ 10 ▾ Entries

Debit Account Number	Debit Account Name	Credit Account Number	Credit Account Name	ULB	Amount	Taxes	Comments	Transaction Mode	Ref No	Date & Time	Status	Executed By	Action
1016000000000	ULB16	0000000000013	NEFT vendor1	Kamulpur Nagar Panchayat	20.00	View	test	NEFT	LM55043080055725	12-02-2025 08:04 PM	Pushed To Queue	ulb16maker88	
1016000000000	ULB16	0000000000014	NEFT vendor3	Kamulpur Nagar Panchayat	101.00	View	test			12-02-2025 08:01 PM	Rejected	ulb16maker88	
1016000000000	ULB16	252025202525852	New test	Kamulpur Nagar Panchayat	101.00	View	test	Fund Trans	LM55043070242943	12-02-2025 07:58 PM	Pushed To Queue	ulb16maker88	
1016000000000	ULB16	0000000000014	NEFT vendor3	Kamulpur Nagar Panchayat	101.00	View	Transaction added	NEFT	LM55043070055717	12-02-2025 07:52 PM	Pushed To Queue	ulb16maker88	
1016000000000	ULB16	9856265222568	jake	Kamulpur Nagar Panchayat	1.00	View	T			12-02-2025 04:32 PM	Rejected	ulb16maker88	
1016000000000	ULB16	9856265222568	jake	Kamulpur Nagar Panchayat	1.00	View	T			12-02-2025 04:32 PM	Rejected	ulb16maker88	
1016000000000	ULB16	9856265222568	jake	Kamulpur Nagar Panchayat	1.00	View	T			12-02-2025 04:32 PM	Rejected	ulb16maker88	
1016000000000	ULB16	9856265222568	jake	Kamulpur Nagar Panchayat	1.00	View	T			12-02-2025 04:32 PM	Rejected	ulb16maker88	
1016000000000	ULB16	9856265222568	jake	Kamulpur Nagar Panchayat	1.00	View	T			12-02-2025 04:32 PM	Rejected	ulb16maker88	
1016000000000	ULB16	9856265222568	jake	Kamulpur Nagar Panchayat	1.00	View	T			12-02-2025 04:32 PM	Rejected	ulb16maker88	

Showing 1 to 34 of 34 entries

<< First

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Next >

Last >>

Figure:Project Payments Report

2.5.22 A&OE & IEC Payments Report

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾ Anshuman Maker Logout

A & EO & IEC Payments Report

ULB Name
Select ULB ▾

Debit Account Number
Debit Account Number

Credit Account Number
Credit Account Number

From Date
DD-MM-YYYY

To Date
DD-MM-YYYY

Status
Enter Status

Search

Show ▾ 10 ▾ Entries

Debit Account Number	Debit Account Name	Credit Account Number	Credit Account Name	Payee Type	ULB	Amount	Taxes	Comments	Transaction Mode	Ref No	Date & Time	Status	Executed By	Action
1016000000000	ULB16	220252025202520	AOE1	A & OE	Kamulpur Nagar Panchayat	101.00	View	test			12-02-2025 08:06 PM	Rejected	ulb16maker88	
1016000000000	ULB16	253200215200255	FT payee	A & OE	Kamulpur Nagar Panchayat	10.00	View	test	Fund Trans	LM55043080242947	12-02-2025 08:05 PM	Pushed To Queue	ulb16maker88	
1016000000000	ULB16	220252025202520	AOE1	A & OE	Kamulpur Nagar Panchayat	100.00	View	test	NEFT	LM55043080055723	12-02-2025 08:02 PM	Pushed To Queue	ulb16maker88	
1016000000000	ULB16	0000252365220	IEC job number	IEC	Kamulpur Nagar Panchayat	101.00	View	test	Fund Trans	LM55043080242944	12-02-2025 07:59 PM	Pushed To Queue	ulb16maker88	
1016000000000	ULB16	0025652022558	job new	A & OE	Kamulpur Nagar Panchayat	101.00	View	test	Fund Trans	LM55043070242944	12-02-2025 07:56 PM	Pushed To Queue	ulb16maker88	
1016000000000	ULB16	220252025202520	AOE1	A & OE	Kamulpur Nagar Panchayat	101.00	View	test	NEFT	LM55043070055718	12-02-2025 07:55 PM	Pushed To Queue	ulb16maker88	
1016000000000	ULB16	0025652022558	job new	A & OE	Kamulpur Nagar Panchayat	1.00	View	Test			12-02-2025 04:36 PM	Rejected	ulb16maker88	
1016000000000	ULB16	0025652022558	job new	A & OE	Kamulpur Nagar Panchayat	1.00	View	Test			12-02-2025 04:36 PM	Rejected	ulb16maker88	
1016000000000	ULB16	0025652022558	job new	A & OE	Kamulpur Nagar Panchayat	1.00	View	Test			12-02-2025 04:36 PM	Rejected	ulb16maker88	
1016000000000	ULB16	0025652022558	job new	A & OE	Kamulpur Nagar Panchayat	1.00	View	Test			12-02-2025 04:36 PM	Rejected	ulb16maker88	

Showing 1 to 47 of 47 entries

<< Prev

1

2

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4

5

Next >

Last >>

Figure: A&OE and IEC Payments Report

2.5.23 Monitoring and Supervision Payments Report

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾

Udd User Logout

Monitoring and Supervision Payments Report

Debit Account Number

Credit Account Number

From Date

To Date

Debit Account Number

Credit Account Number

DD-MM-YYYY

DD-MM-YYYY

Status

Enter Status

Search

Show 10 ▾ Entries

Debit Account Number	Debit Account Name	Credit Account Number	Credit Account Name	Amount	Taxes	Comments	Transaction Mode	Ref No	Date & Time	Status	Executed By	Action
80222000000000	Agartala Main SNA	9874568798455440	vv	1.00	View	1	NEFT	LM55043040055709	12-02-2025 02:36 PM	Pushed To Queue	udd38	
80222000000000	Agartala Main SNA	202523025202	Admin Vendor payee	1.00	View	1	Fund Trans	LM55043040242932	12-02-2025 01:39 PM	Pushed To Queue	udd38	

Showing 21 to 22 of 22 entries

First

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1

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Last >

Page 3 of Total page 3

Figure: Monitoring and Supervision payments Report

2.5.24 ULB Fund Management Report

Bandhan Bank

Manage Master

Dashboard

Reports

Payments

Anshuman Maker

Logout

ULB Fund Management Report

Show

10

Entries

Financial Year	Sanctioned Amount (in Crs.)						Allocated Amount (in Crs.)						Fund To Be Received
	Total		A & OE		IEC		Allocated Fund		A & OE		IEC		
	Utilized	Unutilized	Utilized	Unutilized	Utilized	Unutilized	Utilized	Unutilized	Utilized	Unutilized	Utilized	Unutilized	
2024-2025	Total : 2,330,717.01		Total : 46,614.34		Total : 46,614.34		Total : 1,398,430.21		Total : 27,968.60		Total : 27,968.60		932286.8
	414.00	2,330,303.01	109.00	27,616.60	109.00	27,859.60	414.00	1,398,016.21	109.00	27,859.60	109.00	27,859.60	

Showing 1 to 1 of entries 1

Figure: ULB Fund Management Report

2.5.25 work order Report

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾

Udd User Logout

Work Order Report

Work order Number

Project Name

Enter Work Order Number

Enter Project Name

Search

Show 10 ▾ Entries

Work Order Number	Project Name	Ward Name	ULB Name	File Download	Allocated Amount	Spend Amount	Balance
Rou-Reg-2025-regular	Routine Essential Works	Ward2	Melagarh Municipal Council	Download	1,000.00	0.00	1,000.00
Bas-Foo-2025-footh	Basic Urban Services	NA	Kamalpur Nagar Panchayat	Download	1,000.00	0.00	1,000.00
Rou-Reg-2025-50	Routine Essential Works	WardTest	Udaipur Municipal Council	Download	500,000,000.00	0.00	500,000,000.00
Rou-Per-2025-002	Routine Essential Works	WardTest	Udaipur Municipal Council	Download	10,000.00	0.00	10,000.00
Rou-Reg-2025-	Routine Essential Works	ward2	Kamalpur Nagar Panchayat	Download	100.00	0.00	100.00
Bas-Str-2025-Streetlights	Basic Urban Services	01	Agartala Municipal Corporation	Download	1,000.00	0.00	1,000.00
Bas-Foo-2025-hgfgh	Basic Urban Services	ward2	Kamalpur Nagar Panchayat	Download	100.00	0.00	100.00
Bas-Con-2025-12	Basic Urban Services	ward 1	Jirania Nagar Panchayat	Download	1,000.00	0.00	1,000.00
Rou-Per-2025-NonSHG	Routine Essential Works	Ward A sonamura	Sonamura Nagar Panchayat	Download	2,000,000.00	0.00	2,000,000.00
Bas-Dra-2025-Drainage	Basic Urban Services	Ward A	Mohanpur Municipal Council	Download	8,000,000.00	0.00	8,000,000.00

Showing 1 to 54 of 54 entries

First

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1

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Next >

Last >

Activate Windows
Go to Settings to activate Windows

Figure: Workorder Report

2.5.26 Ward Wise Transaction and Utilization Report

Manage Master ▾ Dashboard ▾ Reports ▾ Payments ▾Udd UserLogout

Ward Wise Transaction And Utilization Report

Ward Name

Ward Number

ULB Name

Enter Ward Name

Enter Ward Number

Select ULB ▾

Search

Show ▾ 10 ▾ Entries

Ward Name	Ward Number	ULB Name	Utilization
Kumarghat Municipal Council ward A	W101	Kumarghat Municipal Council	0
WardTest	ward1	Udaipur Municipal Council	0
01	ward	Agartala Municipal Corporation	0
Sabroom Nagar panchayat	Sabroom1	Sabroom Nagar panchayat	0
ward101	ward101	Kamarpur Nagar Panchayat	0
Ward A	W101	Mohanpur Municipal Council	0
Ward Ambassa	W5	Ambassa Municipal Council	0
Test	ward1	Bishalgarh Municipal Council	0
Ward C	W103	Mohanpur Municipal Council	0
NA	NA	Kailashahar Municipal Council	0

Showing 11 to 20 of 18 entries

<< First

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Next >

Last >>

Page 2 of Total page 2

Figure: Ward Wise Transaction and Utilization Report

3. Non-Functional Requirements

- **Performance Requirements:** Response time, scalability, concurrency.
- **Security Considerations:** Role-based access, encryption, audit logs.
- **Availability & Uptime:** Expected SLAs
- **Usability & Accessibility:** UI/UX guidelines, WCAG compliance.
- **Logging & Monitoring:** Error handling, system alerts.

4. Integration & API Requirements

4.1 Internal APIs

[List APIs used within the system, such as Authentication, Data Fetching, etc.]

4.2 External APIs

[List third-party APIs like Payment Gateway, Email Services, etc.]

4.3 API Security

[Describe security measures such as OAuth, JWT, Rate Limiting, etc.]

5. Acceptance Criteria & Testing Guidelines

- **Success Metrics:** Define how functionality will be tested and validated.
- **Performance & Load Testing Requirements:** Specify expected system load handling.
- **User Acceptance Testing (UAT) Checklist:** Define criteria for user validation.