



Debt Recovery System
Functional Requirement Document

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1. Introduction

1.1. Purpose

The purpose of developing the Debt Recovery System (DebtX) is to streamline and enhance the efficiency of arrears collection and equipment collection processes at SLT. This approach plans to reduce financial losses from unpaid arrears and unreturned equipment. DebtX improves accountability, tracking, and communication between Debt Recovery Companies (DRCs) and Recovery Officers (ROs) to ensure quick case resolution while following legal and organizational policies. Also, commission calculations for Debt Recovery Companies (DRCs) based on resolved cases are planning to be processed through the DebtX system.

1.2. Scope

The Debt Recovery System (DebtX) is designed to automate and optimize the debt recovery process, addressing inefficiencies in manual workflows while ensuring compliance with organizational and legal requirements. It will feature Collecting incident data directly from Data Lake, Individual incident registration and registration of Bulk of incidents, and automated case assignment to distribute cases effectively among Debt Recovery Companies (DRCs). A mobile portal will enable ROs to update case details, track progress, and record negotiations in real time, ensuring transparency and reducing delays.

The system will include real-time notifications and alerts to keep stakeholders informed of critical updates and deadlines. Progress tracking tools and interactive dashboards will provide SLT officers and management with insights into recovery activities, enabling improved performance evaluation. Integration with existing systems (BSS, OSS, and CRM, SMS, and Email platforms) will ensure streamlined data flow, while the system's legal and mediation board workflows will simplify case escalations.

Additionally, the system will facilitate the creation and management of Letters of Demand (LOD), allowing users to generate, preview, and distribute LODs efficiently, based on predefined criteria. The system will also automate commission calculations, ensuring accurate and timely payments to DRCs based on successful recoveries. The system will facilitate the write-off process for unsuccessful cases and case abandoned process or withdrawal process in the middle of the recovery process for any case. Successful cases will be closed at the final stage.

1.3. Audience (Developers, Testers, Business Owners, Stakeholders)

The Debt Recovery System (DebtX) caters to various audiences with distinct roles:

Business Owner

- Role: Oversee the strategic implementation and success of the Debt Recovery System (DebtX), ensuring alignment with business objectives and financial goals..
- Responsibilities:
 - Define the vision, goals, and KPIs for DebtX.
 - Approve budget, resources, and timelines for system development.
 - Ensure compliance with regulatory and financial requirements.
 - Collaborate with stakeholders to optimize debt recovery processes.
 - Review reports and dashboards to assess system effectiveness and ROI.
 - Provide feedback to enhance system performance and user experience.

Development Team

Business Analysts (BA)

- Role: Translate business needs into technical requirements.
- Responsibilities:
 - Gather and document requirements.
 - Collaborate with developers and testers to clarify and refine features.
 - Address risks, constraints, and dependencies.

Developers

- Role: Build and implement the system.
- Responsibilities:
 - Develop features like case management, workflows, dashboards, and integrations.
 - Ensure performance, scalability, and security.
 - Address technical challenges like data synchronization and automation.

Testers

- Role: Validate system functionality and performance.
- Responsibilities:
 - Test features, integrations, and workflows against acceptance criteria.
 - Conduct UAT to confirm alignment with business requirements.
 - Ensure data synchronization, report accuracy, and security compliance.

Stakeholders

- Role: Define business goals and validate outcomes.
- Key Stakeholders:
 - SLT Recovery Officers: Assign and monitor cases, evaluate performance.
 - Debt Recovery Companies (DRCs): Manage cases and provide updates.
 - Recovery Officers (ROs): Update case details and negotiate settlements.
 - SLT Legal Team: Handle escalations and manage legal workflows.
 - SLT Finance Team: Oversee commission calculations and financial reporting.
 - SLT Management: Use dashboards to optimize strategies and provide feedback.

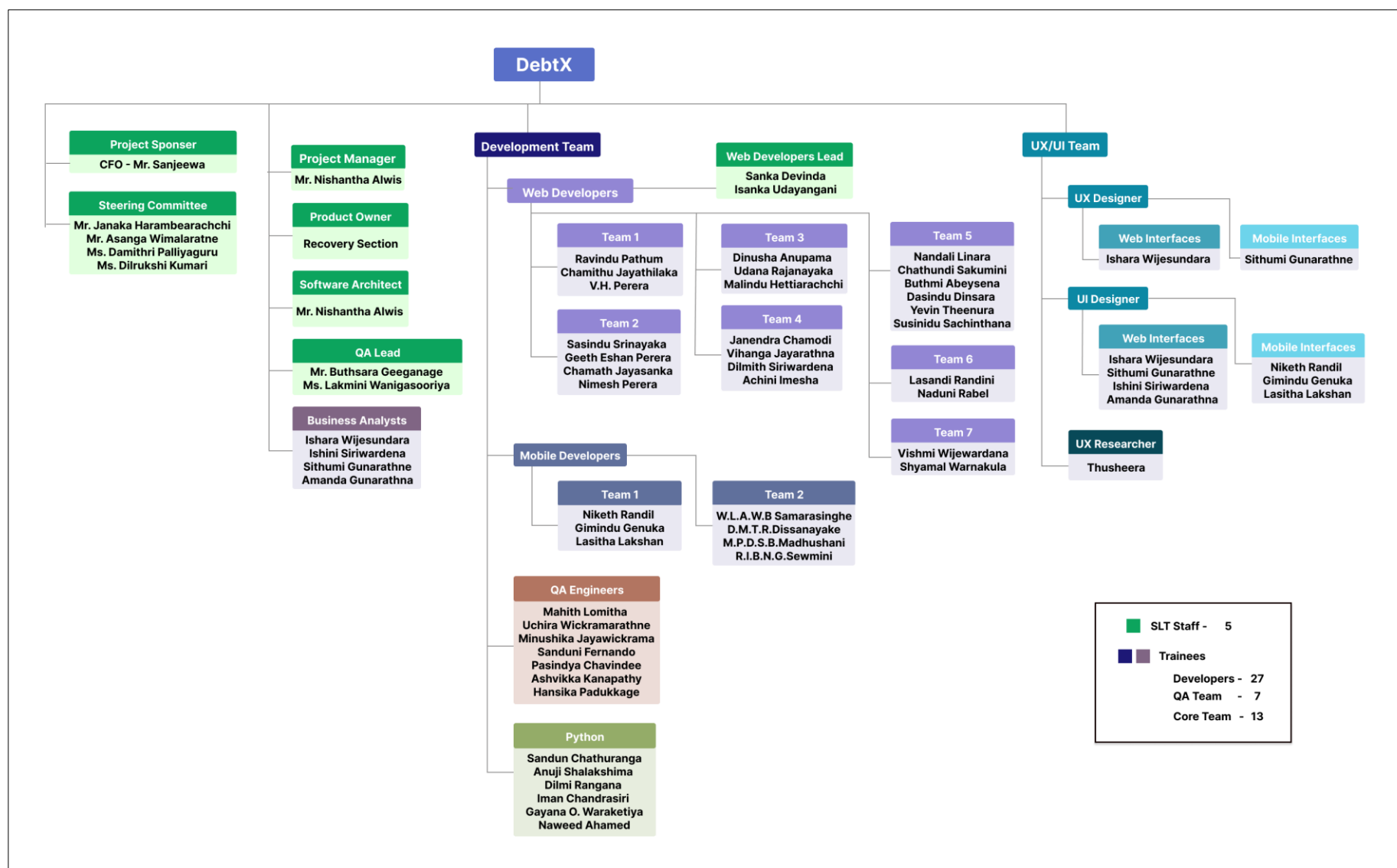


Figure 1: Team Structure

2. Project Overview

2.1. Background

The existing process for debt recovery in the Recovery Section of SLT is entirely manual. Data for collecting arrears and customer-provided equipment (CPE) is manually retrieved from internal datasets maintained in systems such as BSS, OSS, and CRM. The Recovery Section officers at SLT manage this process in collaboration with Debt Recovery Companies (DRCs) and Recovery Officers (ROs).

The process begins with the SLT officer collecting input in the form of the customer's account number and specifying the required action, which may be one of the following:

- Collect arrears
- Collect CPE only
- Collect arrears and CPE

Based on the action entered relevant details are provided from the BSS, OSS, and CRM systems. The case is then handed over to the ROs through the DRCs. Cases are categorized based on the arrears amount and processed accordingly:

- Cases meeting specific criteria are directed to the negotiation process (arrears and CPE).
- Cases qualifying for immediate legal action are sent directly to the Letters of Demand (LOD) process.
- Cases that do not meet any criteria are closed.

A negotiating procedure is started with the customer, and the relevant information is sent to the RO if the action entails picking up the CPE unit. Unless the CPE collection is unsuccessful, the case is considered successful after the unit is gathered and approved by the RCMP. The discussion phase occurs between the RO and the client if the action entails collecting arrears. After successful talks, the settlement procedure begins, during which the RO's commissions are determined by the amount of money obtained. The matter is sent to the mediation board for additional settlement if talks are unsuccessful. Depending on the customer's reaction, cases may go through the LOD procedure or a dispute resolution path. After meeting certain requirements, cases sent to the LOD procedure proceed to the litigation phase.

Significant issues with the existing manual technique include data redundancy, inefficiency, and the possibility of human mistakes. In order to handle client accounts, Recovery Section officers mostly rely on manual involvement, retrieving inputs from systems such as CRM, BSS, and OSS. This leads to a laborious process that is prone to errors and delays, underscoring the necessity of automation. The BSS will update the segment to 100 when the case is terminated after receiving the cases with the "pending write-off" status, and the updated cases will be displayed in the write-off log.

2.2. Objectives

- **Optimize Recovery Operations**

Enable Recovery Officers (ROs) to update case negotiations through a mobile portal in real time, increasing process transparency and reducing delays. And also, improve the efficiency of arrears and equipment recovery.

- **Enhance Monitoring Capabilities**

SLT officers can monitor DRC, and RO activities through the system and they can provide necessary information and activities such as request mediation board letters, and extended periods.

- **Facilitate Legal and Mediation Board Activities**

Streamline the escalation of unresolved cases to the mediation board and legal team. Automate the generation of final reminders and Letters of Demand (LOD) with digital or manual signatures.

- **Automate Commission Payments**

Ensure accurate and timely calculation of commission payments to DRC based on successful recoveries.

- **Leverage Insights for Performance Optimization**

Provide interactive dashboards and reports for SLT management to evaluate recovery activities, enabling data-driven decisions to improve operational strategies.

- **Enable Comprehensive Report Generation**

Generate detailed reports to support operational and strategic needs, including:

- ❖ Daily Payment Reports
- ❖ LOD Collection Reports
- ❖ BULK Report - Account Number
- ❖ BULK Report - Case ID

2.3. Assumptions and Constraints

Assumptions

1. **Stakeholder Adoption:** All stakeholders (SLT officers, DRCs, ROs) will adopt the DebtX system and use it as intended.
2. **Data Availability:** Existing data from BSS, OSS, and CRM systems is accurate, complete, and ready for integration.
3. **Infrastructure:** SLT's IT infrastructure will support smooth implementation and operation of the DebtX system.
4. **Training and Support:** All users will receive adequate training and ongoing support to effectively utilize the system.
5. **Compliance:** The system will meet all regulatory and legal requirements for debt recovery processes.
6. **Funding:** Adequate funding will be available for the development, implementation, and maintenance of the system.
7. **Security:** Robust security measures will be implemented to protect sensitive customer and financial data.

Constraints

1. **Timeline:** The project must meet the defined deadlines for design, development, testing, and deployment.
2. **Budget:** Costs must remain within the allocated project budget.
3. **Quality:** The system must meet quality benchmarks, ensuring reliability, scalability, and usability.
4. **Scope:** Feature development is limited to the agreed-upon requirements. Scope changes may delay implementation or increase costs.
5. **Team Experience:** The project team's limited technical expertise requires focused training and resource management.

3. Functional requirements

3.1. High-Level Requirements

Case Entry:

- Support bulk and individual case registration with a user-friendly interface.
- Automatically validate and link multiple products associated with a single customer account.

Data Flow and Integration:

- Automate data retrieval and synchronization from systems like BSS, OSS, CRM, and the Data Lake.
- Ensure real-time updates for case status and actions.

Legal Support:

- Generate compliant documents (e.g., LODs, Final Reminders) with digital or manual signature options.
- Escalations to mediation boards or legal teams based on predefined workflows.

Recovery Insights:

- Provide dashboards to monitor case progress and performance metrics.
- Generate detailed, filterable reports for stakeholders.

Negotiation Management:

- Allow ROs to update negotiation outcomes and track settlements in real time.
- Automate reminders for overdue cases and maintain logs for compliance.

Write-Off Management:

- Streamline workflows to manage, log, and report “pending write-off”s and terminated cases.
- Integrate with BSS, and CRM to reflect accurate write-off statuses.

4. Non-Functional Requirements

- **Performance**
The system should handle 100 concurrent requests with a response time of less than 2 seconds, even during peak usage with up to 95% increased traffic.
- **Scalability**
Support future growth in users, cases, and data sources without performance degradation.
- **Availability**
Ensure 85% uptime for continuous access to all stakeholders.
- **Security**
Implement AES-256 encryption and multi-factor authentication (MFA) to protect data, complying with industry standards for data privacy.
- **Usability**
Provide an intuitive interface that minimizes training needs and supports multi-language functionality if required.
- **Maintainability**
Use modular architecture to enable updates and upgrades with minimal downtime.
- **Compliance**
Adhere to legal and regulatory standards, ensuring generated documents meet compliance requirements.
- **Reliability**
Prevent data loss with automated backups and recovery mechanisms while maintaining data integrity.
- **Compatibility**
Integrate seamlessly with existing systems like BSS, OSS, CRM, and commonly used devices and browsers.
- **Auditability**
Maintain a detailed log of all system activities for accountability and compliance.
- **Extensibility**
Allow future enhancements, such as integrating new tools or workflows, without major reengineering.
- **Accessibility**
Ensure compliance with accessibility standards.
- **Response Time**
Maintain a consistent response time of under 2 seconds for standard operations.
- **System Visibility**
Provide stakeholders with role-based access to real-time system status, activity logs, and case progress via dashboards and notifications.

5. System Requirements

5.1. Hardware Requirements (Servers, Storage)

1. Servers

- **Application Server:**

A high-performance server is required to host the application and manage user requests efficiently.

- **Database Server:**

A dedicated server to store and manage sensitive customer and financial data securely.

2. Storage Devices

- **Centralized Storage:**

A Network Attached Storage (NAS) or Storage Area Network (SAN) device for handling large volumes of data, logs, and archives.

3. Network Equipment

- **Routers and Switches:**

Enterprise-grade routers and Layer-3 switches for efficient data transmission and low latency.

- **Firewalls:**

Next-generation firewalls to ensure secure communication and protect against cyber threats.

4. Workstations

- **Employee Workstations:**

Systems for staff handling debt recovery operations, reporting, and customer interactions.

5. Backup Systems

- **Data Backup Servers:**

Dedicated backup hardware for regular data backups to prevent loss during hardware failures or cyberattacks.

6. Power Supply and UPS

- **Power Backup Systems:**

Uninterruptible Power Supply (UPS) units for critical hardware to ensure continuous operations during power outages.

7. Additional Requirements

- **Cooling Systems:**

Proper air-conditioning systems to maintain optimal operating temperatures for hardware in server rooms.

- **Rack and Mounting Equipment:**

Standard server racks with cable management systems for efficient organization.

5.2. Software Requirements (OS, DB, Framework)

1. Operating System (OS) Requirements

Development Environment (For Developers' Workstations):

- Windows 10/11
- macOS (for Mac users)

2. Technology Stack

Frontend:

- React.js (for a dynamic and responsive UI)
- Redux (for state management)
- Tailwind CSS (for styling and UI components)

Backend:

- Node.js with Express.js (for server-side logic and APIs)
- Python (for RabbitMQ message queue processing)

Database:

- MongoDB (NoSQL database for structured data storage)
- Firebase Firestore (for real-time data updates and cloud storage)

Message Queue

- RabbitMQ (for asynchronous communication between microservices using Python)

3. Development Tools and Frameworks

- Version Control: GitHub/Bitbucket for source code management
- Code Editor: VS Code
- Package Manager: npm
- API Testing: Swagger/Postman

4. Deployment & Hosting

Database Hosting:

- MongoDB Atlas
- Firebase Firestore

CI/CD Pipeline:

- For automated deployments

5. Security & Authentication

Authentication & Authorization:

- Firebase Authentication (for user login and access control)
- JSON Web Tokens (JWT) (for secure API authentication)
- Role-Based Access Control (RBAC) (for managing user permissions)

6. Monitoring & Logging

Error Logging & Monitoring:

- Firebase Analytics (for application usage monitoring)
- LogRocket / Sentry (for error tracking and debugging)
- Prometheus & Grafana (for performance monitoring)

6. Use Cases

Use Case ID	Use Case Name
UC011	Collect incidents from the Data Lake
UC012	Register Incidents
UC013	Filter 1
UC014	Collect only CPE
UC015	CPE Collection Process
UC016	Assign DRC
UC017	Manger Approval
UC019	Monitor DRC and Re-Assign
UC020	Distribute among RO
UC021	Monitor RO and Re-Assign
UC022	Customer Negotiation
UC023	Request Action
UC024	Mediation Board Selection
UC025	Mediation Board Process
UC027	Create Settlement Plan - SLT
UC028	Create Settlement Plan-RO
UC029	Settlement Process
UC030	Write Off
UC031	FTL LOD Process
UC032	Litigation Process
UC033	WRIT
UC034	Re-WRIT
UC035	F2
UC036	Final Reminder
UC037	LOD
UC038	Dispute

7. Acceptance Criteria

1. Case Management

- SLT Staff could create individual cases or bulk cases without system errors.
- Multiple products linked to a customer account are grouped under a single case.
- Cases should be validated (e.g., required fields, data accuracy) before submission.
- System distributes open cases to appropriate DRCs based on SLT user's preference.

2. Data Integration

- The system retrieves arrears data from BSS, OSS, CRM, and Data Lake automatically.
- Updates made in the legacy systems are reflected in DebtX in real time.
- No data duplication or no error occurs during data retrieval.

3. Notifications and Alerts

- Real-time alerts are triggered for overdue cases, escalations, and status changes.
- Users receive notifications via the system dashboard, SMS, or email, based on configured preferences.
- Notifications are logged in the system with timestamps for audit purposes.

4. Document Automation

- The system generates Final Reminders, Letters of Demand (LOD), and other legal documents using predefined templates.
- Digital signatures can be applied to the documents without errors.
- Final Reminders, LODs and other legal documents comply with legal and organizational standards.

5. Negotiation and Settlement

- Recovery Officers (ROs) can update negotiation outcomes in real-time via the mobile app.
- The system tracks settlements, updates case statuses, and confirms payments accurately.
- Automated reminders are sent to ROs for overdue cases or pending follow-ups.
- All negotiation logs and updates are maintained for future reference and compliance.

6. Write-Off Management

- Cases marked as "pending write-off" are processed and transitioned to "write-off" status based on predefined rules.
- Write-off logs contain detailed case information, including date and reasons for write-off.
- Users can generate accurate and detailed reports of write-off cases for compliance and auditing.

7. Dashboards and Reporting

- Dashboards display real-time case progress, and DRC/RO performance.
- Reports can be filtered.
- All generated reports are accurate, downloadable, and adhere to the client's reporting requirements.

8. Glossary

DRC	Debt Recovery Company
RO	Recovery Officer
CPE	Customer Product Equipment
LOD	Letter Of Demand
RCMP	Return CPE Management Portal
BSS	Billing Support System
OSS	Operating Support System
CRM	Customer Relationship Management
SMS	Short Message Service
UAT	User Acceptance Test
IT	Information Technology
CSS -	Cascading Style Sheets
UI -	User Interface
NoSQL -	Not Only Structured Query Language
JWT -	Json Web Token
npm -	Node Package Manager
OS -	Operating System
DB -	Database
CI/CD pipeline -	Continuous Integration and Continuous Deployment Pipeline

9. Appendices

9.1. System Architecture

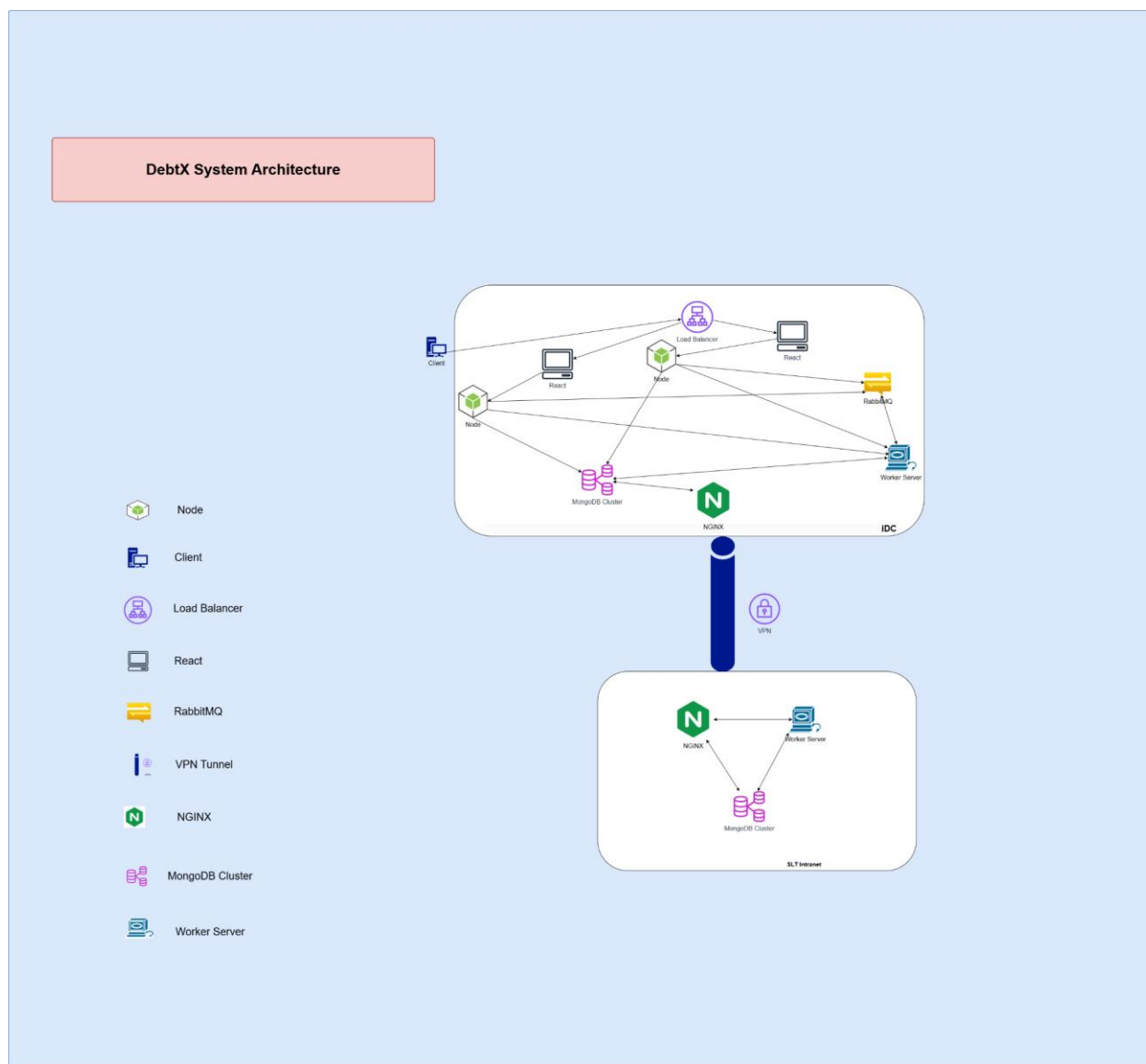


Figure 2: System Structure

9.2. Main Diagram

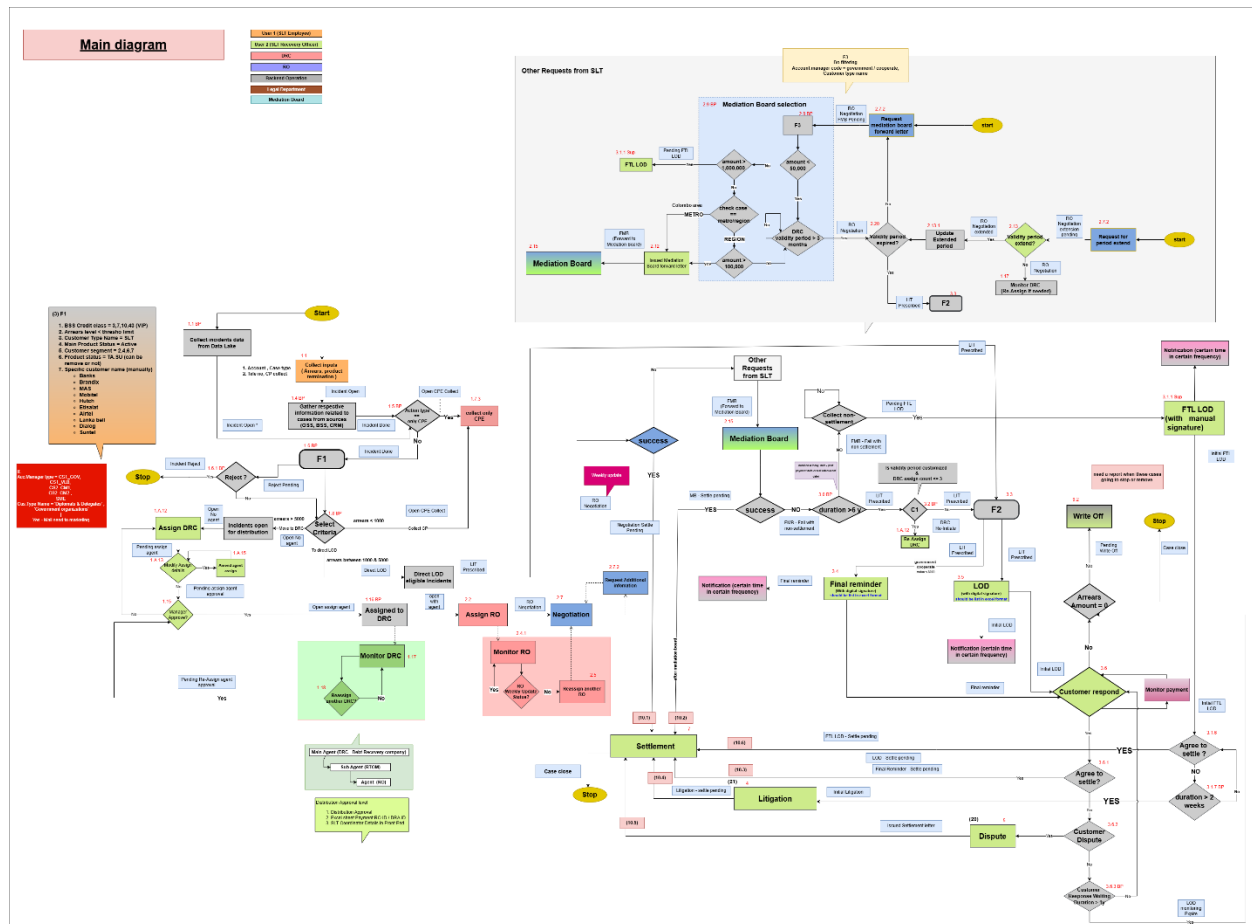


Figure 3: Main Diagram

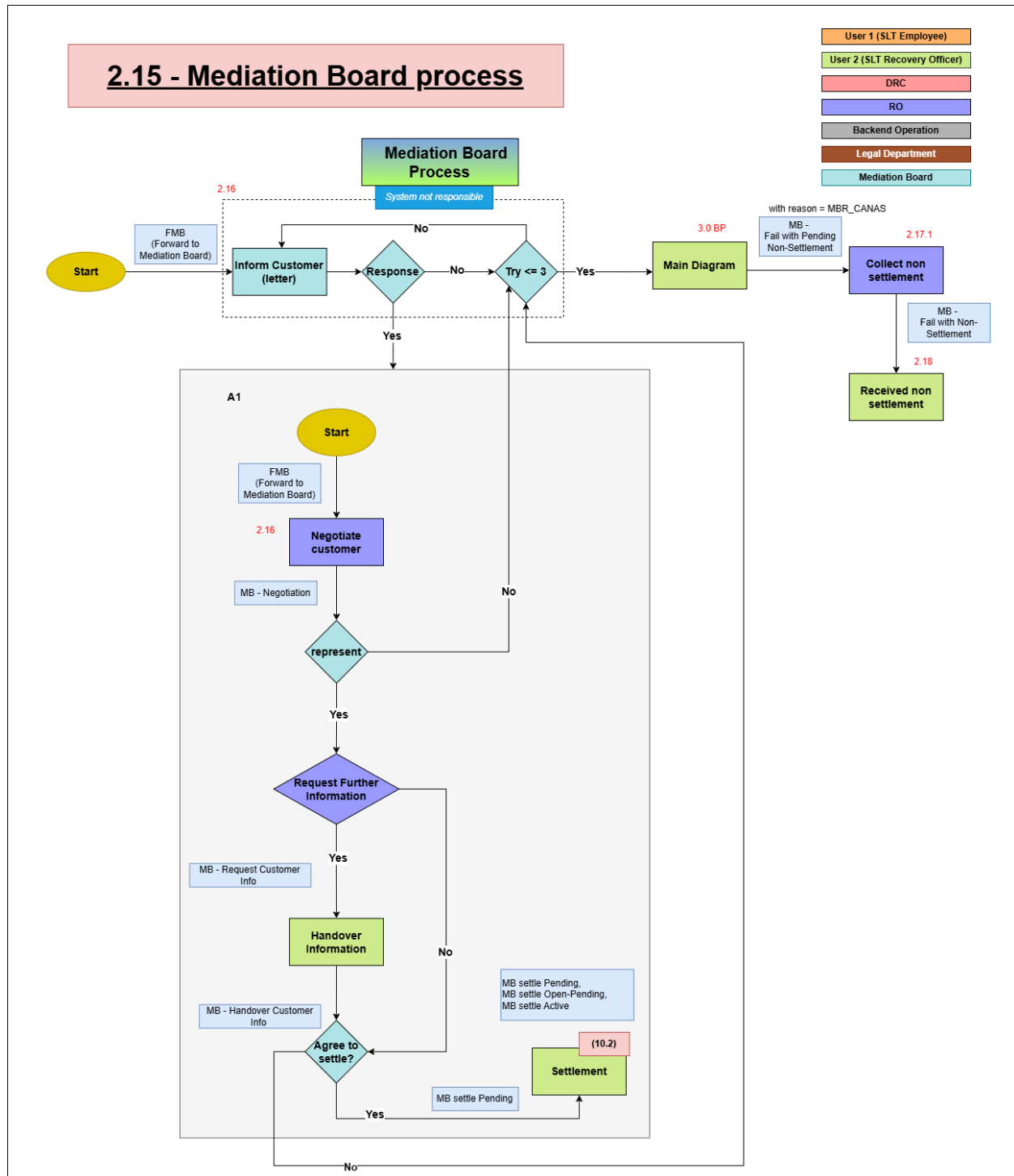


Figure 5: Mediation Board

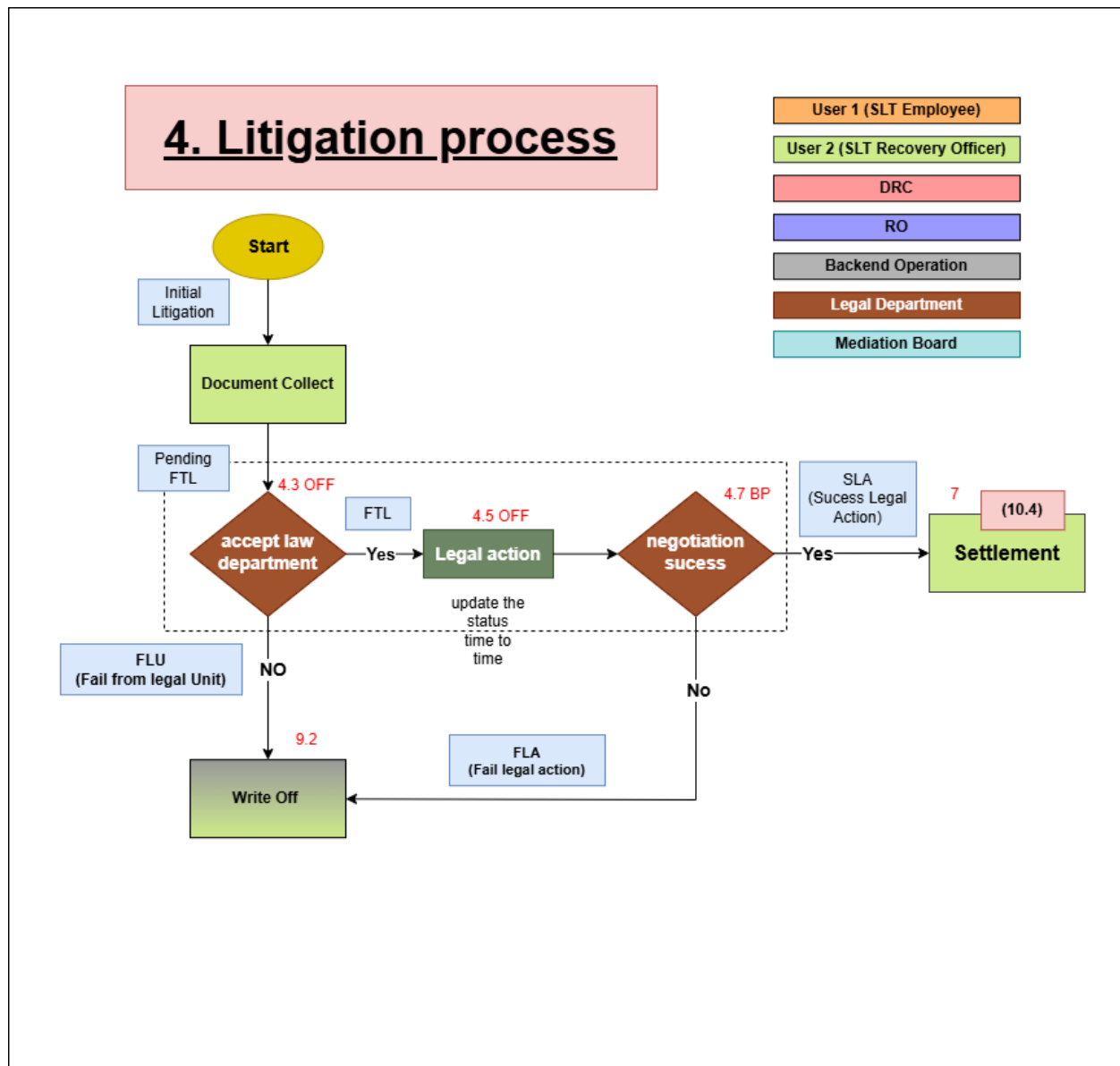


Figure 6: Litigation Process

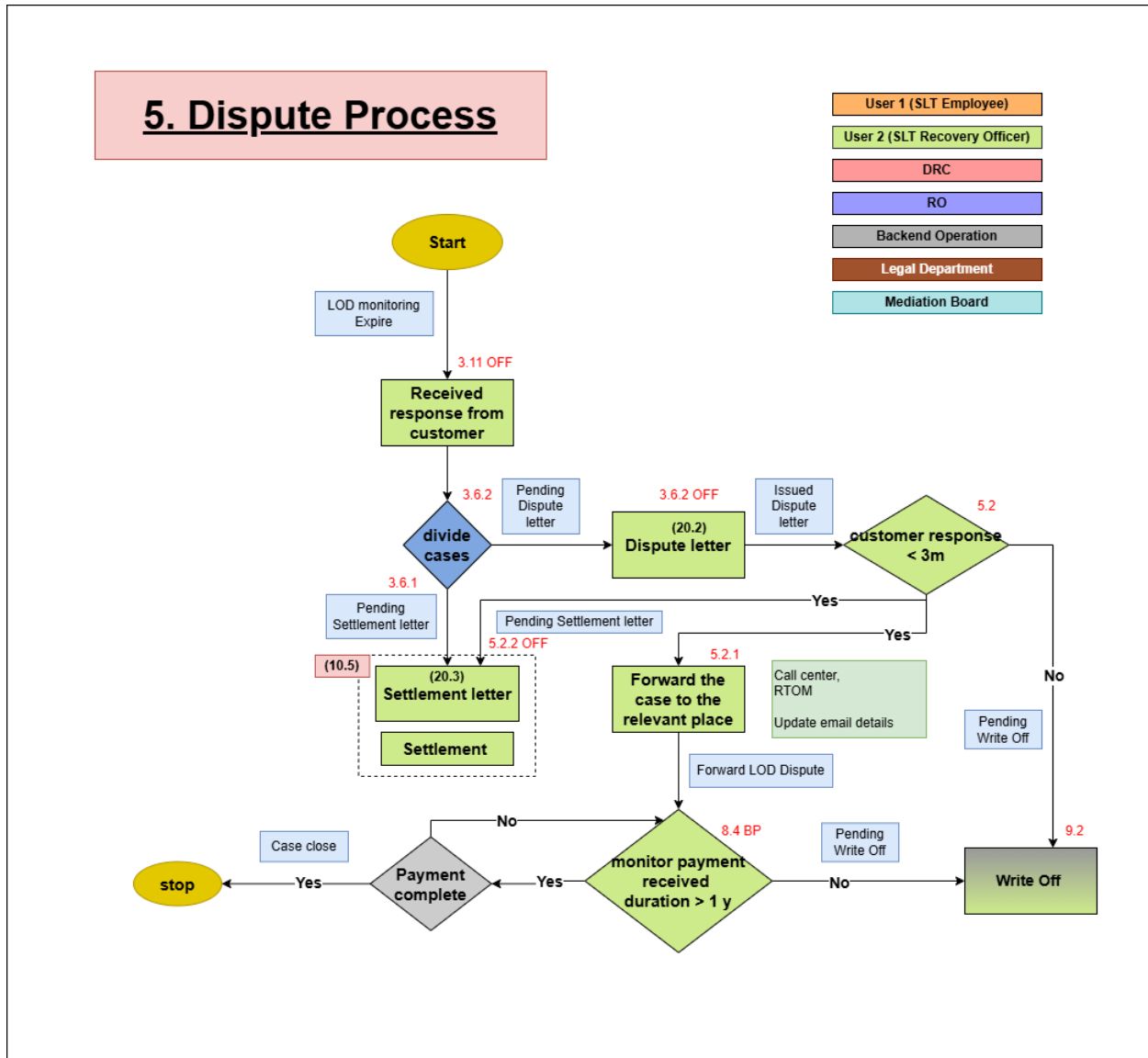


Figure 7: Dispute Process

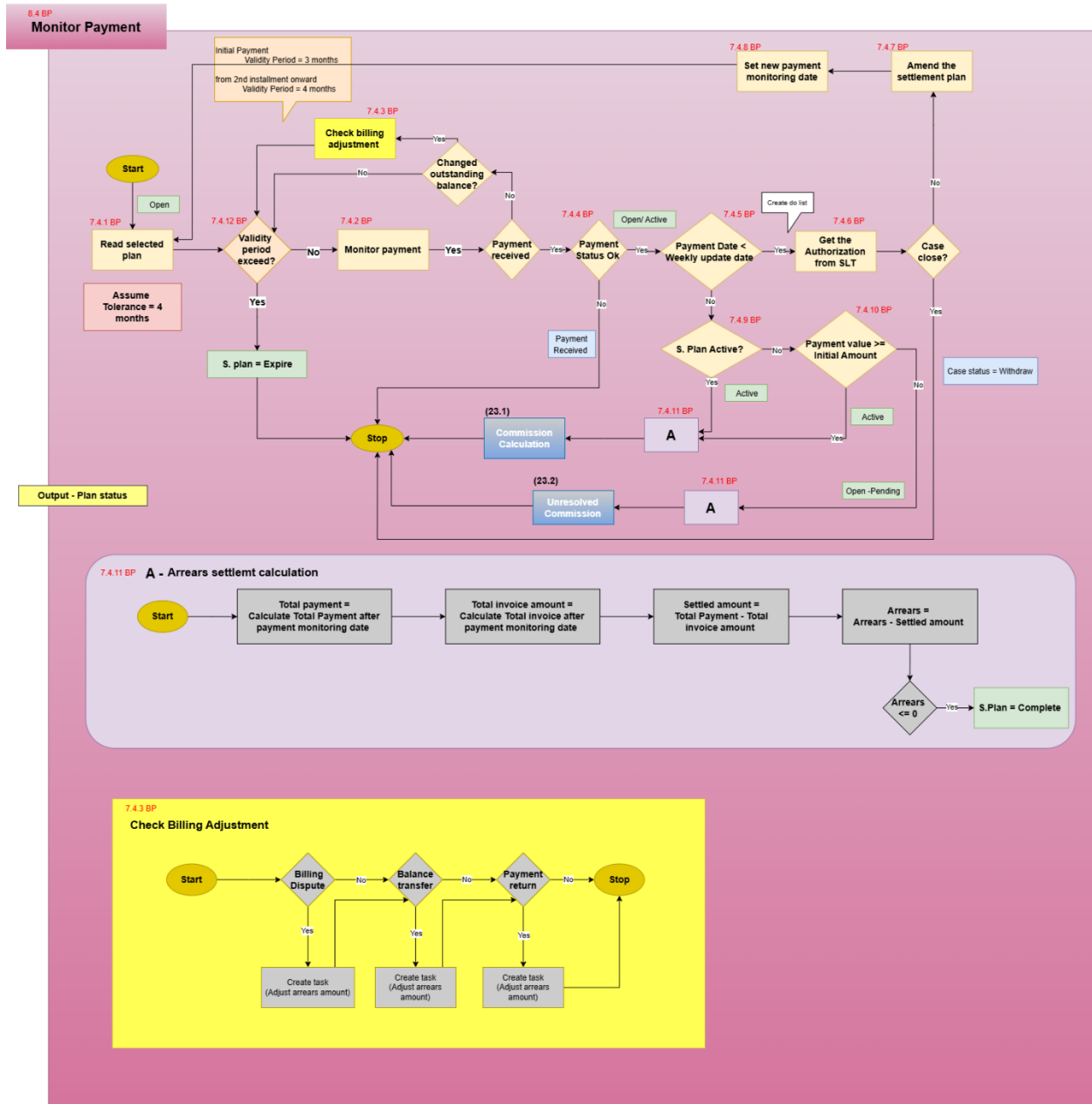


Figure 9: Settlement- Monitor Payment

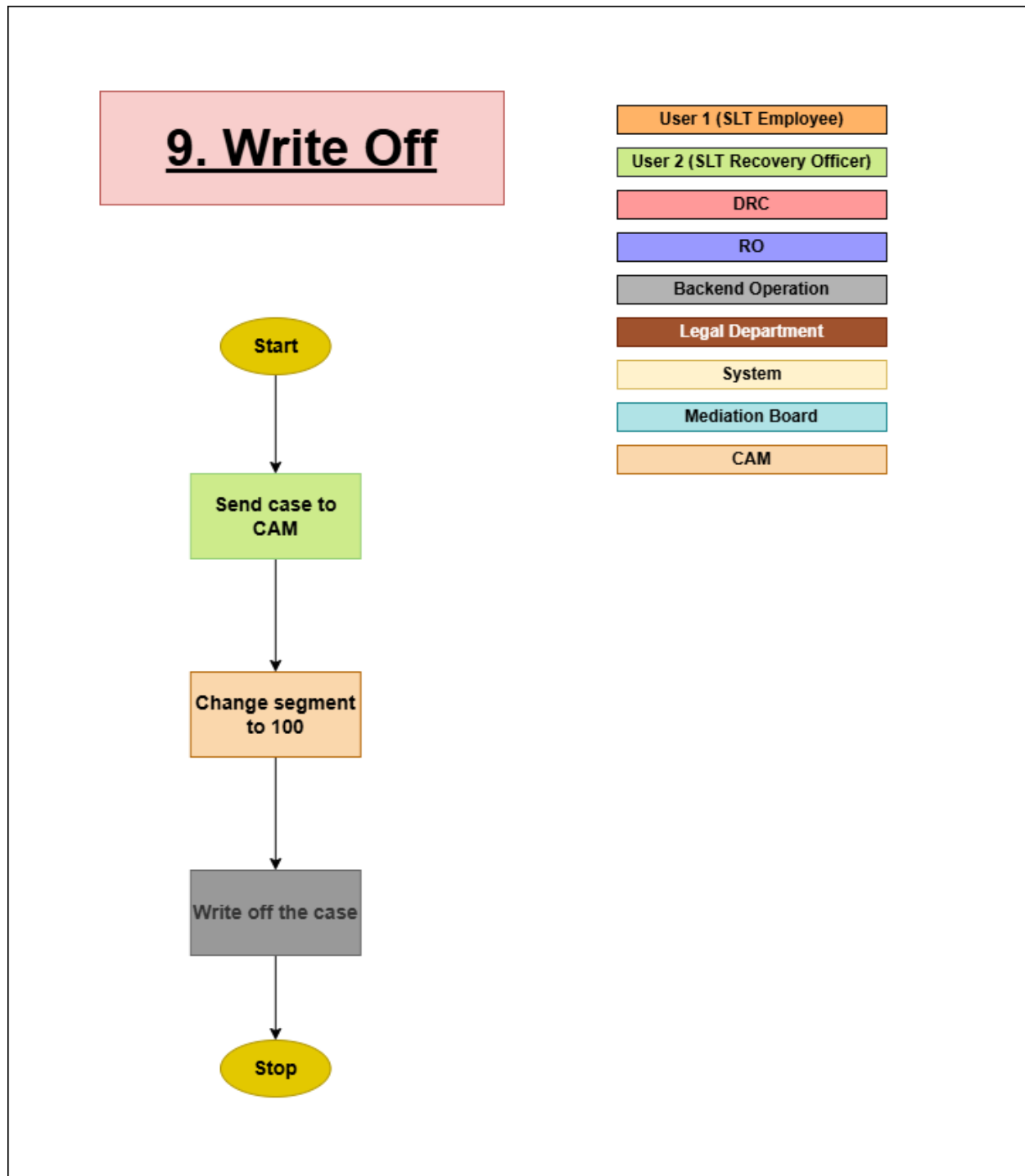


Figure 10: Write Off

9.3. Data Flow Diagram

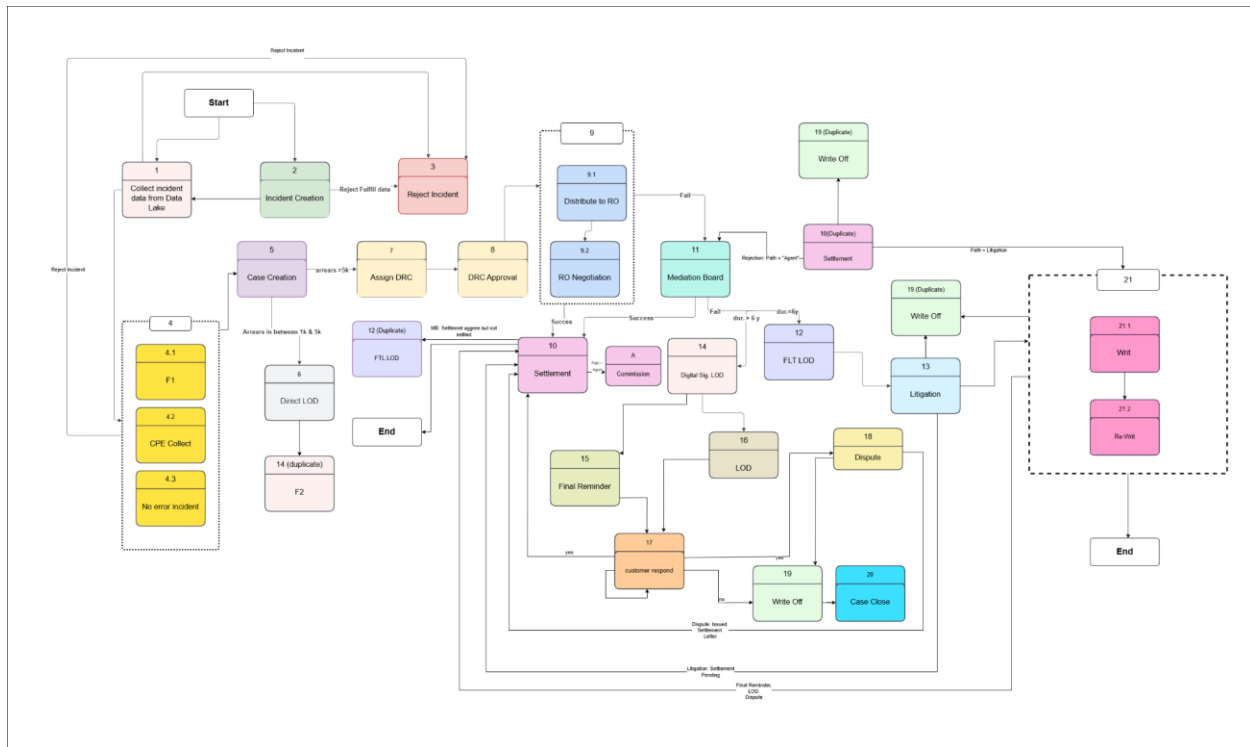


Figure 11: Data Flow Diagram

9.4. Use Cases

Use case ID	UC011	
Use case name	Collect incidents from Data Lake	
Process ID	1.1 BP	
Actors	DebtX (Debt Recovery System)	
Description	Collect terminated account details from the data lake and register them as incidents.	
Pre-conditions	Details relevant to the terminated accounts should be collected from OPMC (account-related information) and BSS (last payment details).	
Post-conditions	Incidents are registered to the system successfully.	
Back-end/Front-end	Back-end (API Calling)	
Pre status	-	
Post status	<i>Incident_Open</i>	
Message of status	Incidents successfully created.	
Notification	SLT Staff: created incident details (incident count, created dtm)	
	Action	System Response
Success path	Call API	Collect relevant data from the data lake and process. Load them into the DebtX. Update the incident list
Alternate path		

Use case ID	UC012	
Use case name	Register Incident	
Process ID	1.1 & 1.4 BP	
Actors	DebtX (Debt Recovery System) SLT Staff	
Description	<ul style="list-style-type: none"> Incident input collection for the system can be done in the following ways: <ul style="list-style-type: none"> Bulk upload Manually input Data includes <ul style="list-style-type: none"> Account no, Telephone No, and Action type as Arrears collect or Arrears + CPE collect. Telephone number/Service number (System ID) and action type as Only CPE collect. The source type should be mentioned as <ul style="list-style-type: none"> Pilot - Suspended Product Terminate Special Once the data input is done, the relevant details related to the accounts will be collected from the OSS, BSS, and CRM. After collecting necessary details from the sources the incident list will be updated. 	
Pre-conditions	<ul style="list-style-type: none"> The user should be a registered user. Authorised users should have the necessary privileges. The system should be able to upload the cases in bulk as an Excel file. 	
Post-conditions	<ul style="list-style-type: none"> Details added to the incident list. 	
Back-end/front-end	Front end: Bulk upload or Manual input	
Pre status	<i>Incident_Open</i>	
Post status	<i>Incident_Done</i>	
Message of status	Necessary Error message with error status Success message: "Incident successfully registered."	
Notification	SLT Staff - Registered incident count	
	Action	System Response

Success path	<p>If Select Register type as Bulk Upload:</p> <ul style="list-style-type: none"> Select relevant excel file, Select the action type and upload <p>If Select Register type as Individual:</p> <p>Following fields should be filled:</p> <ul style="list-style-type: none"> ● Account No ● Action type (Arrears Collect/ Arrears + CPE collect/ CPE Collect) ● Telephone No (If the Selected ‘Action Type = Only CPE’) ● Source Type ● Calendar Months (Assigning duration) 	<p>Uploaded cases will be added to the Incident Upload list with “Open” status.</p> <p>Once the backend process of collecting further details of the uploaded accounts from the sources: OSS, BSS, and CRM</p> <p>is completed, status will change to “Done.”</p>
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		<p>Registered cases will be added to the Incident list with “Open” status.</p> <p>Once the backend process of collecting further details of the uploaded accounts from the sources: OSS, BSS, and CRM is completed, status will change to “Done.”</p>
Alternate path		

Use case ID	UC013
Use case name	Filtering process 01 and Select Criteria
Process ID	1.6BP & 1.8 BP
Actors	DebtX (Debt Recovery System), SLT Staff
Description	<ul style="list-style-type: none"> The process of filtering the gathered data from the sources for the accounts that are terminated. The incidents that fall under the following criteria will be tagged as pending rejected. <ul style="list-style-type: none"> 1 - Credit class = VIP, 3, 7, 10, 43 2 - Arrears level < threshold limit 3 - Customer type name = SLT 4 - Main product status = Active 5 - Product status = TA, SU 6 - Specific customer name (manually) <ul style="list-style-type: none"> Banks Brandix MAS Mobitel Hutch Etisalat Airtel Lanka Bell Dialog Suntel 7 - Customer segment = 2, 4, 6, 7 The incidents which do not meet the criteria will be go through the below conditions and divided into 3 process paths. <ul style="list-style-type: none"> Condition 1: if the arrears amount > 5,000: the incidents will be moved to the Assign DRC (Debt Recovery Company) list Condition 2: If the arrears amount is < 1,000: the incidents will be moved to the Collect CPE process. Condition 3: If the arrears amount is between 1,000 & 5,000: incidents will move to the Direct LOD process.

Pre-conditions	<ul style="list-style-type: none"> • Data from the data lake is fetched successfully. • The respective data for the inputs should be collected. • Action type = ‘only CPE’ incidents should be omitted and added to the CPE collect list. 	
Post-conditions	<ol style="list-style-type: none"> 1. Incidents fulfilling the F1 are added to the reject pending list. 2. Based on the conditions the incidents should be divided for the relevant processes. 	
Back-end/front-end	Back-end : Filter according to the filtering criteria add filter reason	
Pre status	<i>Incident Done</i>	
Post status	Reject Incidents— <i>Reject_Pending</i> Condition 01— <i>Open_No_Agent</i> Condition 02— <i>Open_CPE_Collect</i> Condition 03— <i>Direct_LOD</i>	
Message of status	-	
Notification	SLT Sta Document with relevant details of the cases where marketing concerns should be sent.	
	Action	System Response
Success path	Incidents which are fulfilling the F1 criteria Incidents which are not fulfilling the F1 criteria If the arrears < 1000 If the arrears > 1000 and < 5000 If Arrears > 5000	Add incident to the Reject Pending list along with the filtered reason Add incident to ‘Collect CPE’ list Add incident to ‘Direct LOD’ list

Use case ID	UC014	
Use case name	Collect only CPE	
Process ID	1.5 BP & 1.7.3	
Actors	DebtX (Debt Recovery System)	
Description	<p>The system automatically forwards incidents, which is the</p> <ul style="list-style-type: none"> ○ Action type = ‘Collects only CPE’ ○ Action type = ‘Arrears + CPE Collect’ where the Arrears amount < 1000 <p>to the ‘Collect only CPE Log.’</p>	
Pre-conditions	<ul style="list-style-type: none"> - Action type = ‘Collect only CPE’ - Action type = ‘Arrears + CPE Collect’ and the Arrears amount < 1000 	
Post-conditions	<ul style="list-style-type: none"> - Incidents are added to the ‘Collect only CPE Log.’ 	
Back-end / Front-end	Back-end	
Pre status	<p>Action type = ‘Collect only CPE’</p> <ul style="list-style-type: none"> - <i>Data_gathered</i> <p>Action type = ‘Arrears + CPE Collect’ and the Arrears amount < 1000</p> <ul style="list-style-type: none"> - <i>Case_Pending</i> 	
Post status	<i>Case_Open</i>	
Message of status		
Notification	SLT staff - Collect only CPE count	
	Action	System Response
Success path	If Action type = ‘Collect only CPE’	Update the status and the CPE-only Log

	<p>Else,</p> <p>Action type = 'Arrears + CPE Collect' and the Arrears amount < 1000</p>	<p>Update the status and the CPE- only Log</p>
Alternate path		

Use case ID	UC015
Use case name	CPE Collection Process
Process ID	1.10 BP & 1.12 BP & 1.11 BP & 2.7 & 2.18 & 8
Actors	DebtX (Debt Recovery System), Recovery Officer (RO)
Description	<p>After checking the details of the equipment related to the case, the case is assigned to the DRC to collect the equipment.</p> <p>DRC assigns relevant RO to collect the equipment from the user.</p> <p>RO collects equipment from customers after the negotiation process is successful and handover them to the RCMP.</p> <p>According to the RCMP status DRC will get the commission..</p>
Pre-conditions	Cases are already in the Only CPE Collect log.
Post-conditions	<ul style="list-style-type: none"> - CPE handed over to RCMP - Case Close
Back-end / Front-end	<p>Front-end: Negotiation updates and further details</p> <p>Back-end: RCMP process and Commission calculation</p>
Pre status	<i>Open_CPE_Collect</i>
Status	<p><i>Open_No_Agent</i></p> <p><i>DRC_Pending_Approval</i></p> <p><i>Open_assign_Agent</i></p> <p><i>Open_With_Agent</i></p> <p><i>Equipment_Collected</i></p> <p><i>RO_Negotiation</i></p> <p><i>Handed_Over_RCMP</i></p>

	<i>Reject_RCMP</i> <i>RCMP_Confirmed</i>	
Post status	<i>Case_Close</i> <i>Collect_CPE_Fail</i>	
Message of status	-	
Notification	-	
	Action	System Response
Success path	<p>If SLT owned unit</p> <p> If Product status != TX</p> <p> Case is closed</p> <p> Else If Shall collect customer unit</p> <p> If Product status != TX</p> <p> Case is closed</p> <p> Else</p> <p> Assign DRC and Send to approval</p> <p> Get the approval for the DRC assignment and</p> <p> Assigning ROs</p> <p> Distribute cases among DRCs</p> <p> Update status = 'Open_With_Agentt'</p> <p> Monitor negotiation updates by RO</p> <p> If negotiation is successful</p> <p> Collect Equipment</p> <p> Submit to RCMP</p>	

	<p>If Negotiation is failed</p>	<p>Update RCMP status</p> <p>If RCMP status = Success</p> <p>Calculate the commission</p> <p>If RCMP status = Reject</p> <p>Update case status as “<i>Case_Close</i>”</p> <p>Update Status as “<i>Collect_CPE_Fail</i>”</p>
Alternate path		

Use case ID	UC016	
Use case name	Assign DRC	
Process ID	<i>I.A.12 & I. C.12 & I.A.13 & I.A.15</i>	
Actors	SLT staff	
Description	Assign cases to DRC to take action on: → Arrears Collect → Arrears + CPE Collect → CPE Collect	
Pre-conditions	Incidents should be displayed in the open incidents list.	
Post-conditions	Distribute DRC-assigned case lists to DRCs.	
Back-end/front-end	Front – end	
Pre status	<i>Open_No_Agent</i>	
Post status	<i>DRC_Pending_Approval</i>	
Message of status	Confirmation messages Relevant messages for case assigning actions	
Notification	-	
	Action	System Response
Success path	Select incidents in the open incidents list and proceed with them. Select and Open a service type Do the assigning Process	Register incidents as cases Display cases count according to the service type.

	<p>Select Arrears brand</p> <p>Select DRC</p> <p>Enter case count</p> <p>Click on 'Add'</p>	<p>Display added details in the table</p>
	<p>Edit or Delete the added records</p>	
	<p>Repeat the process until</p> <p style="padding-left: 40px;">Total case count (in the table) == Case count</p>	
	<p>Proceed the entered details</p>	<p>If Total case count (in the table) != Case count</p> <p style="padding-left: 40px;">Display Error Message</p>
	<p>Do the assigning Process (Again)</p>	<p>Else</p> <p style="padding-left: 40px;">Display the assigned summary</p> <p style="padding-left: 40px;">Do the distribution process</p> <p style="padding-left: 40px;">Create a batch with the cases and add them to the Case distribution DRC Transaction list.</p>
	<p>Allow users to open the batch and see how the distribution</p>	

	<p>has happened through the system.</p> <p>If user need to change the case count of a DRC</p> <p>Select relevant batch and Amend the case count</p> <p>Else</p> <p>Send the batch to the Manager Approval</p>	<p>Allow Users to amend the added DRC case count if necessary before sending for the approval process.</p> <p>Update the case count</p> <p>Change the case status in the batch list.</p> <p>Add a batch to the DRC Assign approval list.</p>
Alternate path		

Use case ID	UC017
Use case name	Manager Approvals
Process ID	1.15
Actors	SLT staff - Manager
Description	Manager can approve the relevant approvals in the approval list for the further processes.
Pre-conditions	Pending approvals should be in the Approvals list
Post-conditions	Cases have been added to relevant lists for further process.
Back-end/front-end	Front – end
Pre status	DRC Assign approval - <i>Open_No_Agent</i> DRC Re-Assign approval - <i>Pending Re-Assign Agent Approval</i> Case Withdrawal approval - <i>Pending case withdrawal</i> Case Abandoned approval - <i>Pending case Abandon</i> Case Write-Off approval - <i>Case Write-Off approval</i> DRC Assign approval - <i>Pending DRC Commission approval</i>
Post status	DRC Assign approval - <i>Open_Assign_Agent</i> DRC Re-Assign approval - <i>Open_Assign_Agent</i> Case Withdrawal approval - <i>Case withdrawn</i> Case Abandoned approval -

	<i>Case Abandoned</i> Case Write-Off approval - <i>PendingWrite-Off</i> DRC Assign approval - <i>Commissioned</i>	
Message of status	Confirmation messages Relevant error messages	
Notification	-	
	Action	System Response
Success path	Check the Approval log Select a case or list of cases and Approve	Change case status Add to relevant lists DRC Assign approval - Assign relevant DRC and send to them DRC Re-Assign approval - Assign relevant DRC and send to them Case Withdrawal approval - Add to Withdraw log Case Abandoned approval - Add to Abandoned log Case Write-Off approval - Add to pending Write-Off log DRC Assign approval -

		Add commission to DRC
Alternate path		

Use case ID	UC019
Use case name	Monitor DRC and Re-Assign DRC
Process ID	1.17 & 1.18
Actors	SLT staff
Description	<p>Monitor the assigned DRC. Re-assign the DRC if necessary based on the performance.</p> <p>Or, When the case fails from the mediation board and the duration criteria are also less than 6 years, the case moves to C1 decision. Where re-assigning DRC can be done if needed.</p>
Pre-conditions	Cases have been successfully assigned and distributed to the DRC
Post-conditions	<p>If Re-Assign DRC</p> <p>Change the DRC and Assign a new DRC.</p> <p>Update the assign DRC log</p> <p>If Withdraw</p> <p>Add case to Pending Withdraw case log</p>
Back-end/front-end	Front – end
Pre status	<i>Open_Assign_Agent</i>
Status	<p><i>Open_With_Agent</i></p> <p><i>RO_Negotiation</i></p> <p><i>Negotiation_Settle Pending</i></p> <p><i>Negotiation_Settle Open-Pending</i></p> <p><i>Negotiation_Settle Active</i></p> <p><i>RO_Negotiation_Extended</i></p> <p><i>FMB</i></p> <p><i>MB_Negotiation</i></p> <p><i>MB_Settle Pending</i></p> <p><i>MB_Settle Open-Pending</i></p>
Post status	<p>If Re-Assign DRC</p> <p><i>DRC_Manager_Approval</i></p>

	If Withdraw <i>Pending_Withdrawal</i>	
Message of status	-	
Notification	-	
	Action	System Response
Success path	<p>Select the DRC's case from the DRC List</p> <p>Check the Case Progress (Check the Case progress by the status of the case with the assigned date)</p> <p>If no progress If Re-Assign DRC</p>	<p>Navigate to the DRC's Case list</p> <p>Check the DRC count <= 3 && Validity Period == Extended</p> <p> If DRC count >= 3 Display Necessary error message</p> <p> If total Validity period >= 5 months Display Necessary message</p>

	<p>Select new DRC and submit</p> <p>Else Withdraw Case</p>	<p>Else</p> <p>Navigate to the Re-Assign DRC page</p> <p>Send the case to the Manager for approval</p> <p>Add Case to Pending Withdrawal log and Send for approval</p>
Alternate path		

Use case ID	UC020	
Use case name	Distribute among Recovery Officer (RO)	
Process ID	2.2	
Actors	DRC (Debt Recovery Company)	
Description	<p>The DRC distributes assigned cases among the RO for further action.</p> <ul style="list-style-type: none"> ● Customer details. ● The location of customers should be a concern. 	
Pre-conditions	<ul style="list-style-type: none"> - ROs are available in the customer’s area. - Required customer details should be accessible. - Action categories, <ul style="list-style-type: none"> ● Arrears collects ● CPE collects ● CPE + Arrears 	
Post-conditions	<p>DRC distributes among relevant ROs.</p> <p>Details of the assigned ROs should be provided to the SLT and update the RO list.</p>	
Back-end/front-end	Front–end	
Pre status	<i>Open_With_Agent</i>	
Post status	<i>RO_Negotiation</i>	
Message of status	“Case Assigned Successfully”	
Notification	RO – Newly assigned cases count	
	Action	System Response
Success path	<p>Open “Pending” cases</p> <p>Select Cases and Select the relevant RO that cases should be Assigned and Submit</p>	Displays a list of cases.

		<p>Assign cases among ROs based on availability.</p> <p>Notify RO about the Assigned case information</p> <p>Add RO assigned case list to the Ongoing case list</p>
Alternate path	Inform the assigned RO of details for the SLT.	

Use case ID	UC021	
Use case name	Monitor RO and Re-Assign RO	
Process ID	2.4.1 & 2.4.2 & 2.5	
Actors	DRC	
Description	Check the case progress of RO's	
Pre-conditions	Cases have been successfully distributed and assigned to the RO	
Post-conditions	If Re-Assign RO Change the RO and Assigned a new RO	
Back-end/front-end	Front – end	
Pre status	<i>Open_with_Agent</i>	
Status	<i>RO_Negotiation</i> <i>Negotiation_Settle Pending</i> <i>Negotiation_Settle Open-Pending</i> <i>Negotiation_Settle Active</i> <i>RO_Negotiation_Extended</i> <i>FMB</i> <i>MB_Negotiation</i> <i>MB_Settle Pending</i> <i>MB_Settle Open-Pending</i> <i>MB_Settle Active</i>	
Post status	-	
Message of status	-	
Notification	If RO Re-Assigned Previous RO – About the case termination New RO – About the newly assigned case details	
	Action	System Response

		<p>Change the RO's details of the case</p> <p>Notify the new assigned RO for the assigned case details</p>
Alternate path		

Use case ID	UC022
Use case name	Customer Negotiation
Process ID	2.7.1, 2.7.2, 2.7.3, 2.7.4
Actors	Debt Recovery Company / Recovery Officer
Description	<p>RO should visit the customer negotiate the case and take related actions,</p> <ul style="list-style-type: none"> ● Collect Arrears ● Collect CPE ● Collect both CPE and Arrears <p>And, update the customer feedback (refer list in the Table 1 - Negotiation selection items)</p>
Pre-conditions	RO should receive the latest updated case details with the relevant customer details.
Post-conditions	<ul style="list-style-type: none"> - RO has updated the negotiation details - If the customer agrees to settle, settlement details should be updated. According to the payments done by the customer payment details should be updated
Back-end/front-end	<p>Front-end - Assigned Case List</p> <p>Customer Negotiation Form</p>
Pre status	<i>Open_With_Agent</i>
Status	<p><i>RO_Negotiation</i></p> <p><i>RO_Negotiation_FMB_Pending</i></p> <p><i>RO_Negotiation_Settle_Pending</i></p> <p><i>RO_Negotiation_Settle_Open-Pending</i></p> <p><i>RO_Negotiation_Settle_Active</i></p> <p><i>RO_Negotiation_extension_pending</i></p> <p><i>RO_Negotiation_extended</i></p>
Post status	<p><i>FMB</i></p> <p><i>Pending Withdraw</i></p> <p><i>Case Close</i></p>
Message of status	Confirmation messages for each submission.
Notification	DRC, RO : -

	Alert and email to Request Mediation Board letter if settlement plan != Active in one month after the case assigned.	
	Action	System Response
Success path	Open received case list Select a case	Display Case details including customer details
	Call or Visit to Discuss with the customer If customer details should change Select the “Edit” option in the relevant case Enter new customer contact details (Contact No/ NIC/ Email/ Address) Submit details	
	Else	Add new customer details to the case and show latest details in customer informations Store previous details in database

	<p>Select the “Negotiation” option of the relevant case</p> <p>Update customer response</p> <p>If Negotiation == Success & Customer Agree to settle</p> <p>Create settlement plan</p> <p>If Negotiation == Success & Customer still not Agree to settle</p> <p>Enter field status and Submit</p> <p>If Negotiation != Success</p> <p>Select Field Reason from dropdown, add Remark and submit</p> <p>If any additional requests need to be done. Select the request type on the request dropdown and Submit</p>	<p>Update Settlement details of the case</p> <p>Update negotiation details</p> <p>Update negotiation details</p> <p>Requests go through the Mediation Board selection process.</p> <p>Add requests to the SLT’s request log</p> <p>Add requests to the SLT’s request log</p>
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	<p>If Request = Mediation board forward letter</p> <p>If Request = Period Extension</p> <p>If Request = Additional customer information</p> <p>If Request = Service Activation</p> <p>-----</p> <p>If SLT has respond for requests</p>	<p>Add requests to the SLT's request log</p> <p>Add requests to the SLT's request log</p>
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	<p>If Mediation Board letter issued</p> <p>Continue case with mediation board</p> <p>Else</p> <p>Re-negotiate with customer</p> <p>If Period Extended</p> <p>Continue negotiation with customer</p> <p>If Additional information received</p> <p>Provide details to customer and Continue negotiation</p>	
Alternate path		

Abbreviation	Description	About Commission
AS	Agree to settle	Success
CA	Customer available	Pending
CANAS	Customer Available Not Agree to Settle	Fail
CD	Customer Dead	Fail
CGA	Customer Gone Abroad	Fail
FP	Fully paid	Success
MSG	Message	
NIC	No Information Customer	Fail
V_APAID	Visit already paid	Success
V_AS	Visit Agree to Settle	Success
V_CA	Visit Customer Available	Success
V_CANAS	Visit Customer Available Not Agree to Settle	Fail
V_CD	Visit Customer Dead	Fail
V_CGA	Visit Customer Gone Abroad	Fail
V_NIC	Visit No Information Customer	Fail
UA	User Available	Success
UANAS	User Available Not Agree to Settle	Fail
V-UA	Visit User Available	Success
V_UANAS	Visit User Available Not Agree to Settle	Fail
CALF	Calling failed	Fail
APAIID	Already Paid	Success
REN	Rental Only	

RO Status Update - Negotiation						
	Visited	Calling	Field Reason	Fail Reason	Commission Entitled	Next forward
Agreed To Settle	V AS	AS	X		X	FMB - CANAS
Customer Available Not Agreed To Settle	V CANAS	CANAS	X	X	X	FMB - CANAS
Customer Available	V CA	CA	X		X	FMB - CANAS
Customer Gone Abroad	V CGA	CGA	X	X	X	LIT Prescribed
No Information Of Customer	V NIC	NIC	X	X		FMB - NIC
Customer Dead	V CD	CD	X	X	X	LIT Prescribed
User Available	V UA	UA	X		X	FMB - CANAS
User Available Not Agreed To Settle	V UANAS	UANAS	X	X	X	FMB - CANAS
Message		MSG	X		X	FMB - CANAS
Fully Paid		FP	X		X	Create Notification for SLT Staff
Calling Failed		CALF	X			FMB - CANAS
Already Paid	V APAID	APAID	X		X	Create Notification for SLT Staff
Debt Collector Visit	V DC	DC	X		X	FMB - CANAS
Rental Only		REN		X		Create Notification for SLT Staff
RO Status Update - Mediation Board						
	Visited	Calling	Field Reason	Fail Reason	Commission Entitled	Next forward
Mediation Board User Not Agree To Settle		MBR UNAS		X		
Installment Default		ID		X		
DRC/RO task with SLT - Negotiation level						
Task						
Mediation board forward request letter	DRC, RO					
Settlement plan	DRC, RO					
Request period extend	DRC					
Request customer further information	RO					
Handed over Non-Settlement letter	RO					
Customer request service	RO					
DRC/RO task with SLT - Mediation Board level						
Task						
Settlement plan	DRC, RO					
Request period extend	DRC					
Request customer further information	RO					
Handed over Non-Settlement letter	RO					
Customer request service	RO					

Figure 12: RO Status

User case ID	UC023
Use case name	Request Actions
Process ID	2.12, 2.13, 2.13.1,
Actors	SLT staff
Description	<p>Requests from RO are shown in the Request log. SLT staff can accept or deny requests.</p> <p>Request Types,</p> <ul style="list-style-type: none"> • Request additional information. • Mediation board forward letter • Request Period extension • Request Settlement Plan • Customer request Service
Pre-conditions	<ul style="list-style-type: none"> - RO Requests from Request dropdown - Cases are qualified for issuing a Mediation Board Forward Letter
Post-conditions	<ul style="list-style-type: none"> • Request additional information. <ul style="list-style-type: none"> ○ Provide requested additional informations • Request Mediation board forward letter <ul style="list-style-type: none"> ○ Issued mediation board forward letter or Deny request • Request Period extension <ul style="list-style-type: none"> ○ Accept or Deny period extension request • Customer request Service <ul style="list-style-type: none"> ○ Inform relevant parties • Request Settlement Plan <ul style="list-style-type: none"> ○ Provide Settlement plan
Back - end / front - end	Frontend - Request Log, Mediation Board acceptance form, validity period extension form,
Pre status	<i>RO Negotiation</i> <i>RO Negotiation extension pending,</i> <i>RO Negotiation FMB Pending</i>
Post status	<i>RO Negotiation</i> <i>RO Negotiation extended</i> <i>FMB</i> <i>RO Negotiation Settle Pending</i>

Message of status	Status of Request response updation	
Notification	RO: <ul style="list-style-type: none"> Request additional information. <ul style="list-style-type: none"> Request Accept or Deny Status Requested details (Not through the system) Request Mediation board forward letter <ul style="list-style-type: none"> Request Accept or Deny Status FMB Letter (Not through the system) Request Period extension <ul style="list-style-type: none"> Request Accept or Deny Status with new validity period Request Settlement Plan <ul style="list-style-type: none"> Request Accept or Deny Status If accept → “Settlement Plan created” 	
	Action	System Response
Success path	If Select and open a case with Request Type = FMB from request log If SLT staff accept request, add remark and click submit Else If SLT staff reject request, add remark and click submit Else SLT staff withdraw case	Directs to Mediation Board acceptance form Notify Request Accept Status Send mediation board forward letter Notify Request Deny Status Case is withdrawn Notify Case withdrawn

	<p>Else If select and open a case 'Request Type = period extension' from request log</p> <p>If total validity period month count < 5</p> <p>If Click on Accept = Yes, add relevant calendar month count and submit</p> <p>Else If Click on Accept = No and submit</p> <p>Else Click on "Withdraw" case</p> <p>Else If select and open a case with 'Request Type = settlement plan' from request log</p> <p>Create settlement plan and Submit</p>	<p>Direct to period extension acceptance form with current Total Validity Period of the case assigned</p> <p>Notify RO with request Accept status and Extended validity period</p> <p>Notify RO with request Deny status</p> <p>Case withdrawn and directs to pending withdraw log</p> <p>Directs to settlement plan creation form</p>
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	<p>Else If select and open a case with 'Request Type = Additional Details' from request log</p> <p>If SLT Staff selects 'Request Provided = Yes or No' and submit</p> <p>If select and open a case with 'Request Type = Customer Service Activation' from request log</p> <p>If SLT Staff selects 'Request Informed = Yes or No' and submit</p>	<p>Notify RO with request Accept status with "Settlement Plan created".</p> <p>Notify RO</p> <p>Notify RO</p>
Alternate path		

Use case ID	UC024	
Use case name	Mediation Board Selection	
Process ID	2.9 BP	
Actors	DebtX (Debt Recovery System)	
Description	<p>After RO requests the Mediation Board, cases go through the</p> <ul style="list-style-type: none"> - F3 filter where case is identified from Account Manager code or Customer Type name. - Based on arrears amount, and case area (Metro or Region) <p>then add the case to the Request log or Pending FTL LOD list or F2 selection list.</p>	
Pre-conditions	<ul style="list-style-type: none"> - RO requested to forward case to the mediation board 	
Post-conditions	<ul style="list-style-type: none"> - Case is forwarded to the <ul style="list-style-type: none"> ● Mediation Board ● FTL LOD ● F2 	
Back - end / front - end	Backend	
Pre status	<i>RO Negotiation FMB Pending</i>	
Post status	<p>Issue mediation board letter :</p> <ul style="list-style-type: none"> - <i>RO Negotiation FMB Pending</i> <p>FTL LOD :</p> <ul style="list-style-type: none"> - <i>Pending_FTL_LOD</i> <p>F2 :</p> <ul style="list-style-type: none"> - <i>LIT_Prescribed</i> 	
Message of status	-	
Notification	Notify SLT Staff about requests	
	Action	System Response

<p>Success path</p>	<p>Check Account Manager code and Customer Type name</p> <p>If specific Account Manager code or Customer Type name is identified</p> <p>If (Arrears Amount<50,000)</p> <p> If DRC validity period > 3</p> <p> Else</p> <p> Else If (Arrears Amount >1,000,000)</p> <p> Else If area == Metro</p> <p> Else If area == Region</p> <p> If Arrears Amount > 100,000</p> <p> Else,</p> <p> If Validity Period expired</p> <p> Else</p>	<p>Show in Case Details when Request opened from Request log</p> <p>Check Validity period Expired</p> <p>Monitor DRC Validity period</p> <p>Case Forward to FTL LOD</p> <p>Forward to Request Log</p> <p>Forward to Request Log</p> <p>Case Add to F2 list</p>
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		Monitor DRC Validity period
Alternate path		

User case ID	UC025
Use case name	Mediation Board Process
Process ID	2.15, 2.16, 2.17
Actors	RO (Recovery Officer)
Description	Mediation Board (MB) negotiate with a customer, to a Settlement or a Non-settlement.
Pre-conditions	Mediation Board Letter have been issued
Post-conditions	<p>Cases can either be settled or failed (Send FTL LOD).</p> <ul style="list-style-type: none"> ● Agree to Settle – Start settling the arrears. ● Not Agree to Settle – Handed Non-settlement to SLT.
Back - end / front-end	Frontend: - RO Negotiation.
Pre status	<i>FMB (Forward to Mediation Board)</i>
Status	<i>MB Negotiation</i> <i>MB Settle Pending</i> <i>MB Settle Open-Pending</i> <i>MB Settle Active</i>
Post status	<i>MB Fail with Non-Settlement</i> <i>Case Close</i>
Message of status	Confirmation messages when RO submit any detail.
Notification	<p>SLT Staff - Notifications for requests from RO</p> <p>RO - Notifications regarding the request replies.</p>

	Action	System Response
Success path	If SLT accepts Mediation Board Request and provided Mediation Board forward letter	Case forwards to Mediation Board Case List
	If RO open a case from Mediation Board Case List	Show case details, mediation board response form
	If calling Round < 3 RO should add next calling date and, If RO selects Request from Dropdown and add remark and submit	Display confirmation message Request add to request list
	Else If RO selects Customer Represented = Yes	Display Agree to Settle, Yes or No option
	If RO selects Agree to Settle = Yes	Show Settlement Plan creation form
	Fill the settlement plan and submit	

	If RO selects Agree to Settle = No	Update settlement details and monitor settlement
	If RO selects fail reason from dropdown and add the remark and submit	Show Fail reason dropdown
	Else If RO selects Customer Represented = No and add remark and submit	Update negotiation details
	Else	Update negotiation details
	If RO select Handover Non-settlement = Yes and add remark and submit	Show Non-Settlement Yes, No option
	If RO select Handover Non-settlement = No and fill the other fields and submit	Update negotiation details
		Update negotiation details accordingly
Alternate path	If there is no response, the case fails due to non-settlement with a reason and is forwarded to FTL LOD or F2 for further legal action.	

User case ID	UC027
Use case name	Create Settlement Plan
Process ID	-
Actors	SLT Staff (Internal User)
Description	<p>The process describes the workflow and actions for Agree to Settle arrears after:</p> <ul style="list-style-type: none"> • Negotiation (success)- [Path 10.1] • Mediation (success)- [Path 10.2] • Final Reminder / LOD - [Path 10.3] • FTL LOD – [Path 10.6] • Litigation (success)- [Path 10.4] • Dispute – [Path 10.5] <p>Settlement inputs respective to the arrears</p> <ul style="list-style-type: none"> • Initial Amount • Settlement Plan <ul style="list-style-type: none"> ○ Plan 1 – Calendar Months ○ Plan 2 – Slab Count – with amount for each slab Maximum Slab count = 12 including initial amount • Remark <p>After creating settlement plan, create appropriate task for the plans</p>
Pre-conditions	<ul style="list-style-type: none"> - Path 10.1: RO negotiation success – Customer agree to settle - Path 10.2: Mediation Board success - Customer agree to settle - Cases in the pending settlement log
Post-conditions	Create a settlement plan successfully.
Back-end / Front-end	<p>Front-end – Pending Settlement Plan cases list Create Settlement plan form – Phase, Case Status, Settlement Count, Settlement History are shown Input Select Plan,</p> <ul style="list-style-type: none"> - Plan 1 – Initial Amount, Calendar Months, Remark - Plan 2 – Initial Amount, Slab Count, Slab Amount, Remark
Pre status	<ul style="list-style-type: none"> • Path 10.1: RO negotiation success – <i>RO negotiation</i> • Path 10.2: Mediation Board success - <i>MB Negotiation</i> • Path 10.3: Final Reminder – <i>Final Reminder</i> • Path 10.3 : LOD – <i>LOD</i> • Path 10.6: FTL LOD – Initial <i>FTL LOD</i> • Path 10.4: Litigation success – <i>SLA (Success Legal Action)</i>

	<ul style="list-style-type: none"> Path 10.5: Dispute – <i>Issued Settlement letter</i> 	
Post status	<ul style="list-style-type: none"> Path 10.1: RO negotiation success – <i>Negotiation Settle Pending</i> Path 10.2: Mediation Board success - <i>MB Settle Pending</i> <p>Same Case status but Plan status = Open,</p> <ul style="list-style-type: none"> Path 10.3: Final Reminder – <i>Final Reminder Settle pending LOD – LOD Settle pending</i> Path 10.6: FTL LOD – <i>FTL LOD Settle pending</i> Path 10.4: Litigation success – <i>Litigation Settle pending</i> Path 10.5: Dispute – <i>Dispute settle pending</i> 	
Message of status	<ul style="list-style-type: none"> Plan created successfully 	
Notification	-	
	Action	System Response
Success path	<p>SLT Staff directs Settlement pending Case List</p> <p>SLT Staff selects a case to create plan</p> <p>If SLT staff, click Settlement Count</p> <p>If SLT Staff selects Plan 1 from dropdown</p> <p>Based on the arrears amount, SLT Staff inputs initial amount with calendar months,</p> <p>Enter remark and submit</p>	
	<p>Directs to create settlement form along with the case details (Phase, Case status, Settlement count)</p> <p>Show Settlement History for each.</p> <p>Show calendar months, initial amount, remark to input</p> <p>When the user selects the Calendar months, the validity period is</p>	

	<p>Else If SLT Staff selects Plan 2 from dropdown</p> <p>Based on the arrears amount, SLT Staff inputs slab count,</p> <p>Enter amount for each slab, Remark and submit form</p>	<p>automatically calculated and displayed in the section.</p> <p>Successfully create plan for the case and notify relevant parties</p> <p>According to the selected slab count, slab sections will open to enter the pay amount</p> <p>Successfully create plan for the case and notify relevant parties</p>
Alternate path		

User case ID	UC028	
Use case name	Create Settlement Plan	
Process ID		
Actors	Recovery Officer (RO)	
Description	<p>The process describes the workflow and actions for Agree to Settle arrears after:</p> <ul style="list-style-type: none"> • Negotiation (success)- [Path 10.1] • Mediation (success)- [Path 10.2] <p>Settlement inputs respective to the arrears</p> <ul style="list-style-type: none"> • Initial Amount • Calendar Months • Remark <p>After creating settlement plan, create appropriate task for the plans</p>	
Pre-conditions	<ul style="list-style-type: none"> • Path 10.1: RO negotiation success – <i>Negotiation Settle Pending</i> • Path 10.2: Mediation Board success - <i>MB Settle Pending</i>. 	
Post-conditions	Create a settlement plan successfully.	
Back-end / Front-end	<p>Front-end – Negotiation Form</p> <p>Create Settlement plan –</p> <ul style="list-style-type: none"> • Initial Amount, Calendar Months, Remark 	
Pre status	<p><i>RO Negotiation</i></p> <p><i>MB_Negotiation</i></p> <p><i>RO_Negotiation_Extended</i></p>	
Post status	<p><i>Plan status = Open</i></p> <p>Case status</p> <p><i>Negotiation_Settle Pending</i></p> <p><i>MB_Settle Pending</i></p>	
Message of status	<p>Confirmation messages</p> <p>Successful message or Error message</p>	
Notification	<p>System notifications</p> <ul style="list-style-type: none"> • (Path 10.1, 10.2): Notify SLT - Settlement plan created 	
	Action	System Response

<p>Success path</p>	<p>If negotiation success RO, selects Agree to Settle from Field reason dropdown,</p> <p>Based on the arrears amount, RO inputs initial amount, calendar months, Remark and submit form</p>	<p>Show Settlement Plan creation form</p> <p>Successfully create plan for the case and notify relevant parties</p>
<p>Alternate path</p>		

User case ID	UC029
Use case name	Settlement Process
Process ID	7
Actors	DebtX (Debt Recovery System)
Description	<p>Monitor the selected settlement plan.</p> <p>Plan 01: Calendar Month period, Initial Amount</p> <p>Plan 02: Slab count, amount and duration</p> <p>Payment and arrears details updated along with the BSS.</p>
Pre-conditions	- Case has an Open Settlement Plan.
Post-conditions	<p>Settlement plan = complete → Case close</p> <p>Settlement plan = expires, due to exceeding the duration.</p>
Back-end / Front-end	Back-end
Pre status	<ul style="list-style-type: none"> • Path 10.1 - Negotiation- <i>Negotiation Settle Pending</i> • Path 10.2 - Mediation Board- <i>MB Settle Pending</i> • Path 10.3 - Final Reminder- <i>Final Reminder Settle Pending</i> • Path 10.3 - LOD- <i>LOD Settle Pending</i> • Path 10.4 - Litigation- <i>Litigation Settle Pending</i> • Path 10.5 - Dispute- <i>Dispute Settle Pending</i> • Path 10.6 - FLT LOD - <i>FTL LOD Settle Pending</i> • WRIT - <i>WRIT Settle Pending</i> • Re-WRIT - <i>Re-WRIT Settle Pending</i>
Post status	<p>Arrears = 0;</p> <p><i>Case close</i></p> <p>Plan Status = Active</p> <ul style="list-style-type: none"> • Path 10.1 - Negotiation- <i>Negotiation Settle Open-Pending/Active</i> • Path 10.2 - Mediation Board- <i>MB Settle Open-Pending/Active</i> • Path 10.3 - Final Reminder - <i>Final Reminder Settle Open-Pending/Active</i> • Path 10.3 - LOD - <i>LOD Settle Open-Pending/Active</i> • Path 10.4 - Litigation- <i>Litigation Settle Open-Pending/Active</i> • Path 10.5 - Dispute- <i>Dispute Settle Open-Pending/Active</i> • Path 10.6 - FLT LOD- <i>FTL LOD Settle Open-Pending/Active</i> • WRIT - <i>WRIT Settle Open-Pending/Active</i> • Re-WRIT - <i>Re-WRIT Settle Open-Pending/Active</i>

	Plan Status != Active <ul style="list-style-type: none"> ● Path 10.1 - <i>FMB</i> ● Path 10.2 - <i>FMB Failed with Non-Settlement</i> ● Path 10.3 - <i>Pending Write Off</i> ● Path 10.5 - <i>Pending Write Off</i> ● Path 10.6 - <i>Initial Litigation</i> ● Path 10.4 - <i>Forward To Writ</i> ● WRIT - <i>Forward To Re-Writ</i> 	
Message of status	-	
Notification	-	
	System action	System Response
Success path	Read the selected plan. Start Monitoring payment If payment is received (initial payment or any payment slab) If Payment Status OK (payment can add for the arrears) If Payment value >= Initial Amount Change settlement status = Active If Payment value > 0 & < Initial Amount Change settlement status = Open-Pending Update case status along with the plan status Else (return cheque/ Billing dispute/ Balance transfer)	

		Adjust Arrears amount and payment details and update case details accordingly.
	<hr/> <p>If plan status == Active</p> <p> If Arrears amount = 0</p> <p> If Arrears > 0</p> <p>If validity period expired</p> <p> If path = 'Agent'</p> <p> If path = Mediation Board</p> <p> If path = LOD/ Final Reminder</p> <p> If Path = 'Dispute'</p> <p> If Path = FTL LOD</p> <p> If Path = Litigation</p>	<p>Case Close</p> <p>Check billing adjustment and then Check the validity period</p> <p>Add case to F2 list and Change case status "LIT Prescribed"</p> <p>Change case status "Pending Non-Settlement"</p> <p>Add case to Pending Write-Off log and send for approval</p> <p>Add case to Pending Write-Off log and send for approval</p> <p>Add case to Litigation list and Change case status "Initial Litigation"</p>

		Add case to WRIT list and Change case status “Forward to WRIT”
Alternate path	If a user paid without a settlement plan through the monitor payment case, the arrears amount should be updated accordingly.	

User case ID	UC030	
Use case name	Write-off process	
Process ID	9.2	
Actors	SLT Staff (Internal User), DebtX	
Description	The write-off process is where the unsuccessful cases are stop the recovery process	
Pre-conditions	<ul style="list-style-type: none"> • After receiving Final Reminder / LOD no customer response && arrears amount != 0 • After receiving the dispute letter, the customer doesn't reply or agree to a settlement • After ending a Final Reminder/ LOD and creating a settlement plans or After Creating a settlement plan in the dispute process, but the settlement plan has not been activated (doesn't paid at least the initial amount) and the monitoring period have expired • Unsuccessful Re-Writ process 	
Post-conditions	Cases added to the write-off log successfully	
Back-end / Front-end	Front-end Pending write-off log Back-end - Add case from Pending Write-Off list to Write-Off log	
Pre status	<i>LOD Monitoring Expire</i> <i>LOD settle Pending/ Open-Pending</i> <i>Final Reminder settle Pending/ Open-Pending</i> <i>Dispute settle Pending/ Open-Pending</i>	
Post status	<i>Write off</i>	
Message of status	Confirmation messages	
Notification	Notify SLT	
	Action	System Response


Success path	<p>If Pre-Condition is fulfilled</p> <p>Then</p> <p>CAM has been changed the customer segment of the Pending write off case's to "100"</p>	<p>Send case to Write Off approval</p> <p>Change case status to "Pending Write-off"</p> <p>Add case to Write off log</p> <p>Change case status "Write-Off"</p>
Alternate path		


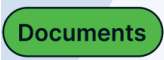
User case ID	UC031	
Use case name	FTL LOD Process	
Process ID	3.1.1	
Actors	SLT Staff	
Description	<p>Cases Eligible for FTL LOD, should receive FTL LOD (LOD with Manual Signature).</p> <p>After receiving a FTL LOD, Customer should settle. If the settlement success case will close, the failed cases are forwarded to the Litigation process.</p>	
Pre-conditions	Cases should be failed from the Mediation board process and received Non-Settlement letter from DRC & Last payment duration < 6 years.	
Post-conditions	FTL LOD settle successful = Case close failed cases added to Litigation log	
Back-end/front-end	Front-end - FTL LOD case list	
Pre status	<i>Pending FLT LOD</i>	
Status	<i>Initial FTL LOD</i> <i>FTL LOD Settle Pending</i> <i>FTL LOD Settle Open Pending</i> <i>FTL LOD Settle Active</i>	
Post status	<i>Case close</i> <i>Initial Litigation</i>	
Message of status	-	
Notification	-	
Success path	Action	System Response
	If the Mediation Board fails && Last payment duration < 6 years && Non-settlement is collected	

	<p>SLT Staff select the relevant template according to the customer's details from the provided screen and click on the create button.</p> <p>The created FTL LOD cases will be displayed in the FTL LOD List, status = Initial FTL LOD</p> <p>If customer agree to settle, SLT staff click create settlement button</p> <p>Enter settlement details and submit.</p> <p>While duration \leq 2 weeks</p> <p>If duration $>$ 2 weeks</p> <p>Check Arrears $==$ 0</p> <p>Else</p>	<p>Direct Case to FTL LOD list, show create pdf button</p> <p>Direct to FTL LOD screen where the user can preview a single document created and create relevant tasks.</p> <p>Change create pdf button to create settlement button</p> <p>Direct to Create settlement form</p> <p>Update settlement details</p> <p>Monitor Payment</p> <p>Case close</p>
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		Change case status to “Initial Litigation” Case added to litigation log
Alternate path		

User case ID	UC032
Use case name	Litigation Process
Process ID	4
Actors	SLT Staff, Legal Department
Description	<p>Cases failed from FTL LOD are forwarded to litigation, after collecting necessary documents, cases are given to the Legal Department to follow legal actions.</p> <p>According to the legal actions case close, Write Off or forward to WRIT.</p>
Pre-conditions	Cases should be failed from FTL LOD and Added to the litigation log.
Post-conditions	<p>Case close or Write off</p> <p>According to the settlement status case close or forward to WRIT.</p>
Back-end/front-end	<p>Frontend - Update legal document details and legal submission status</p> <p>Backend - Monitor settlement process and case forward to WRIT</p>
Pre status	<i>Initial Litigation</i>
Status	<p><i>Pending FTL (Forward to litigation)</i></p> <p><i>FTL</i></p> <p><i>FLU (Fail from Legal Unit)</i></p> <p><i>FLA (Fail Legal Action)</i></p> <p><i>SLA (Success Legal Action)</i></p> <p><i>Litigation Settle Pending</i></p> <p><i>Litigation Settle Open-Pending</i></p> <p><i>Litigation Settle Active</i></p>
Post status	<p><i>Case Close</i></p> <p><i>Pending Write-Off</i></p> <p><i>Forward to WRIT</i></p>
Message of status	-
Notification	-

Success path	Action	System Response
	<p>Select case from Initial litigation cases with litigation pending log and,</p> <p>If user click document button</p> <p>User select document status</p> <p>RTOM Customer file →</p> <p>Requested</p> <p>Collected</p> <p>Without Agreement</p> <p>DRC File →</p> <p>Requested</p> <p>Collected</p>	<p>Direct to Litigation document submission form</p> <p>RTOM customer file (dropdown)</p> <p>DRC File (dropdown)</p> <p>Update file status accordingly and,</p> <p>If RTOM Customer file status = Without Agreement/ Collected && DRC Dile status = Collected</p> <p>Activate Green “Document” button</p>  <p>(which mean documents are ready and case can forward to legal department)</p> <p>Else</p>

		<p>Keep the “Document “ button White</p>  <p>(which mean documents are ready and case can forward to legal department)</p>
	<p>If Case’s document status is OK (which mean the document button is green)</p>  <p>User submit the case to Legal department and,</p> <p>If legal department accept the case click on “Legal Submitted” button</p>	<p>Update case status to “FTL”</p> <p>Display buttons related to cases as “Create settlement” and “Legal Fail”</p>
	<p>After legal Process,</p> <p>If Legal Process success</p>	<p>Navigate to Settlement creation page</p>

	<p>Click on Settlement button</p> <p>Enter relevant details and submit</p> <p>If the Legal Process failed</p> <p>If legal department Refuse to accept the case click on “Legal Fail” button</p>	<p>Update case status as “Litigation Settle Pending”</p> <p>Update case status as “FLA” Case added to Pending Write off log and forward for approval</p> <p>Update case status to “FLU” and case forward for approval and added to pending Write-Off log and</p>
Alternate path		

User case ID	UC033	
Use case name	WRIT	
Process ID	6 , 6.1	
Actors	Legal Department (External)	
Description	WRIT can be created after litigation settlement fails.	
Pre-conditions	<ul style="list-style-type: none"> • Litigation Settlement Plan status is not active • Litigation settlement monitor duration 2 months exceeded and Settlement is not successful. 	
Post-conditions	<ul style="list-style-type: none"> • Create WRIT successfully. • WRIT is settled • Created Re-WRIT successfully 	
Back-end / Front-end	-	
Pre status	<i>FTW (Forward To Writ)</i>	
Status	<i>WRIT</i> <i>WRIT Settle Pending</i> <i>WRIT Settle Open-Pending</i> <i>WRIT Settle Active</i>	
Post status	Success - <i>Case Close</i> Fail - <i>Forward to Re-Writ</i>	
Message of status	-	
Notification	-	
	Action	-
Success path	Create the relevant WRIT template according to the case If WRIT Settlement = Successful	Get the details relevant for the WRIT template Create the WRIT and WRIT settlement. Case close

	<p>Else, If duration > 2 months</p> <p>Else,</p>	<p>Create Re-Writ with appropriate tasks.</p> <p>Change the status to “Forward to Re-Writ”</p> <p>Monitor payment</p>
Alternate path		

User case ID	UC034	
Use case name	RE-WRIT	
Process ID	6.3, 6.4	
Actors	Legal Department (External)	
Description	RE-WRIT can be created once the WRIT settlement is not successful.	
Pre-conditions	<ul style="list-style-type: none"> • WRIT settlement is not a success • WRIT settlement Duration > 2 months • Re-Writ tasks should be created 	
Post-conditions	Case close Case Write Off	
Back-end / Front-end	-	
Pre status	<i>Forward to Re-Writ</i>	
Status	<i>Re-WRIT</i> <i>Re-WRIT Settle Pending</i> <i>Re-WRIT Settle Open-Pending</i> <i>Re-WRIT Settle Active</i>	
Post status	Success: <i>case close</i> Fail: <i>Pending Write-off</i>	
Message of status	-	
Notification	-	
	Action	-
Success path	Create Re-Writ tasks If Re-Writ settlement successful Else,	Status = "Forward to Re-writ" Case close

		Case added to “Pending Write-off” log and forward for approval
Alternate path		

Use case ID	UC035
Use case name	F2
Process ID	3.3
Actors	SLT Staff
Description	<p>Cases that are:</p> <ul style="list-style-type: none"> • Mediation board failed and case last payment duration > 6 years • Direct LOD-eligible (arrears between 1,000 & 5,000) cases • Cases forwarded to request log to forward mediation board which has account manager code = “CS1_GOV”, CS1_VLB”, “CS2_CM1”, “CS2_CM2”, customer type name = “government” or “corporate” and haven’t accepted the request (Government and Corporate cases won’t forward to the mediation board unless SLT staff decided to forward it) . <p>The cases in the F2 process will be divided into</p> <ul style="list-style-type: none"> • Final reminder • LOD <p>which means two types of Digital signature Letters Of Demand.</p>
Pre-conditions	<ul style="list-style-type: none"> • Cases should be failed Mediation board process, and last payment duration should be more than 6 years • Cases should be forwarded from Direct LOD • Cases have Validity period expired or account manager code = “CS1_GOV”, CS1_VLB”, “CS2_CM1”, “CS2_CM2” , customer type name = “government” or “corporate” which are failed from requesting mediation board forwarding process.
Post-conditions	<p>Send Final Reminder with notification to the cases which are,</p> <ul style="list-style-type: none"> - Account manager code = “CS1_GOV”, CS1_VLB”, “CS2_CM1”, “CS2_CM2” - Customer type name = “Government” or “Corporate”

	<p>- Arrears Amount < 3000</p> <p>Send LOD (with digital signature) and notification that are not eligible for Final Reminder..</p>	
Back-end/front-end	Front-End	
Pre status	<i>LIT Prescribed</i>	
Post status	<p><i>Final reminder</i></p> <p><i>Initial LOD</i></p>	
Message of status	-	
Notification	-	
Success path	Action	System Response
	<p>If the mediation board is not successful and the last payment duration is greater than 6 years,</p> <p>If the incident is eligible for the Direct LOD process,</p> <p>SLT Staff selects incidents then click proceed</p>	<p>F2 process</p> <p>status= 'LIT Prescribed'</p>

	<p>User Navigate to Digital Signature LOD page (F2).</p> <p>Select Final Reminder from the F2 dropdown.</p> <p>Select LOD from the F2 dropdown.</p>	<p>Incidents proceed as cases and directed to the F2 process</p> <p>Status = “LIT Prescribed”</p> <p>Filter cases and display Final Reminder eligible cases in the table.</p> <p>Filter cases and display LOD eligible cases in the table.</p>
Alternate path	-	

User case ID	UC036	
Use case name	Final Remainder (With Digital Signature)	
Process ID	3.4	
Actors	Debt Recovery System (DebtX), SLT Staff	
Description	Cases with specific account manager codes or customer type names and arrears amount < 3000 will be directed to Final Reminder.	
Pre-conditions	Arrears Amount < 3000 Specific Account Manager codes and Customer Type names should be directed	
Post-conditions	Created Final Reminder and send to the customer	
Back-end/front-end	Back-end, Front end	
Pre status	<i>LIT Prescribed</i>	
Status	<i>Final reminder</i> <i>Final Reminder Settle Pending</i> <i>Final Reminder Settle Open-Pending</i> <i>Final Reminder Settle Active</i>	
Post status	<i>Pending Write Off</i> <i>Case Close</i>	
Message of status	-	
Notification	Notify the SLT Staff	
	Action	System Response
Success path	SLT Staff can select Final Reminder from F2 dropdown	If specific Account Manager Codes or Customer type

		names && Arrears Amount < 3000 are identified
		Display Final Reminder eligible cases on the list
	Select cases as a batch or individual from the screen either by entering the count or selecting the check box.	
	Click the create final reminder button.	
	Send list to the relevant company (External) for send final reminders to customer	Create a Excel file with case details and notify user when it ready for downloading
	Navigate to Final Reminder list	Cases added to Final reminder list
	If edit button is clicked	
	If user agrees to settle	Customer Response entering screen shown

	<p>Else If customer dispute</p> <p>Else If Request more information</p> <p>Else If preview button is clicked</p>	<p>Navigate to settlement plan creation and add relevant data and submit</p> <p>Add case to the Dispute list</p> <p>Provide informations to customer</p> <p>Display customer response history, Settlement history, Payment history details</p> <hr/> <p>If Final Reminder monitor duration > 1 year</p> <p>Check arrears amount</p> <p> If arrears amount = 0</p> <p> Change Case Status = Case close and add case to closed case list</p> <p> Else</p>
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		<p>Change Case Status = pending write off</p> <p>Add case to Pending Write off log and send for approval</p>
Alternate path		

User case ID	UC037	
Use case name	LOD (With Digital Signature)	
Process ID	3.5	
Actors	Debt Recovery System (DRS), SLT Staff	
Description	Cases which not fulfil the final reminder criteria will be tagged as LOD (Digital Signature)	
Pre-conditions	<ul style="list-style-type: none"> ● Select specific Account Manager Name or Account Manager Code and filter the data. ● Arrears amount > 3000. 	
Post-conditions	Created LOD.	
Back-end/front-end	Back-end, Front end	
Pre status	<i>LIT Prescribed</i>	
Status	<i>Initial LOD</i>	
Post status	<i>LOD –Settle pending</i> <i>LOD monitoring expire</i> <i>Pending Write off</i> <i>Case Close</i>	
Message of status	-	
Notification	Notify the SLT Staff	
	Action	System Response
Success path	SLT Staff can select LOD from F2 dropdown Select cases as a batch or	If Arrears Amount > 3000 are identified Display LOD eligible cases on the list

	<p>individual from the screen either by entering the count or selecting the check box.</p> <p>Click the create LOD button.</p> <p>Send list to the relevant company (External) for send LODs to customer</p> <p>Navigate to LOD list</p> <p>If edit button is clicked</p> <p>If user agrees to settle</p> <p>Else If customer dispute</p> <p>Else If Request more information</p> <p>Else If preview button is clicked</p>	<p>Create a Excel file with case details and notify user when it ready for downloading</p> <p>Cases added to LOD list</p> <p>Customer Response entering screen shown</p> <p>Navigate to settlement plan creation and add relevant data and submit</p> <p>Add case to the Dispute list</p> <p>Provide informations to customer</p> <p>Display customer response history, Settlement history, Payment history details</p> <hr/> <p>If LOD monitor duration > 1 year</p> <p>Check arrears amount</p>
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		<p>If arrears amount = 0 Change Case Status = Case close and add case to closed case list Else Change Case Status = pending write off Add case to Pending Write off log and send for approval</p>
Alternate path		

User case ID	UC038	
Use case name	Dispute	
Process ID		
Actors	DebtX (Debt Recovery System), SLT Staff Billing centers	
Description	Customers respond to LOD/Final Reminder as a dispute. With the response of the customer, SLT Staff sends a dispute letter.	
Pre-conditions	Cases have been added to the dispute list.	
Post-conditions	<ul style="list-style-type: none"> - Handed over to relevant place - Case closed. - Case Write off 	
Back-end/front-end	Front end	
Pre status	<i>Pending Dispute Letter</i>	
status	<i>Issued Dispute Letter</i> <i>Pending settlement letter</i> <i>Forward LOD Dispute</i> <i>Dispute Settle Pending</i> <i>Dispute Settle Open-Pending</i> <i>Dispute Settle Active</i>	
Post Status	<i>Case Close</i> <i>Pending Write off</i>	
Message of status	-	
Notification	-	
	Action	System Response

<p>Success path</p>	<p>Receive customer response and select case from dispute list</p> <p>Update user's response</p> <p> If response = Agree to settle</p> <p> If response = Dispute</p> <p> Select hand over to another channel</p> <p> Enter handing over channel and relevant other details</p> <p> Click on submit</p> <p> Monitor Payment through 1 year</p> <p> If customer response for dispute letter > 3 months</p>	<p>Navigate to settlement creating page</p> <p>Record added and inform relevant parties (externally)</p> <p>Cases added to the [ost dispute log</p> <p>If arrears = 0</p> <p> Case close</p> <p>Else</p> <p> Case added to the pending write-off log and send for approval</p> <p>Case added to the pending write-off</p>
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		log and send for approval
Alternate path		