# Loan Management

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## Task 1

### Audit Trail Module

**Track User Actions**:

- Record actions like loan application creation, updates, deletions, payments, repayment schedule modifications, status changes, and document uploads.
- Capture details of actions performed by users (e.g., loan officers, admins) on specific loan records.

- **Track User Login/Logout Events**:

- Record when users log in or out of the system for security monitoring.

- **Track Loan and Payment Changes**:

- Log changes made to loan applications, payments, and repayment schedules.

- **Track Modifications to Penalties/Interest Rates**:

- Log updates to penalty calculations, interest rates, and fees for loans.

### Admin Interface for Viewing Logs

- **Admin Interface for Viewing Audit Logs**:
  - Create an admin interface where administrators can view the audit trail logs.
  - Provide filtering options for date ranges, users, action types, etc.

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## Task 2

### Loan Approval

### 1. Register Approvers

- **Who**: Credit Administrators, Loan Administrators.
- **Action**: The Credit Administrator or Loan Administrator registers the approvers (Approver 1, Approver 2, Approver 3) for loan applications based on loan amounts exceeding the defined threshold.

### 2. Loan Application Submission

- **Who**: Customer Service or Loan Officers.
- **Action**: A loan application is created and submitted with a loan amount that triggers the approval quorum.

### 3. Send Notification to Approvers

- **Who**: System.
- **Action**: The system sends notifications (SMS, Email, WhatsApp) to the registered approvers (Approver 1, Approver 2, Approver 3) indicating that a loan application requires their approval.

### 4. Approver Review and Decision

- **Who**: Approvers (Approver 1, Approver 2, Approver 3).
- **Action**: Each approver reviews the loan application and either approves or rejects it.
  - If they approve, the loan moves closer to approval.
  - If they reject, the loan application is marked as rejected.

### 5. Approvals and Quorum Check

- **Who**: System.
- **Action**: The system checks if the required number of approvers (e.g., 2 out of 3) have approved the loan application. If the quorum is met:
  - The loan status is updated to **Approved**.
  - If the quorum is not met, the loan remains **Pending**.

### 6. Pending and Approved Screen

- **Who**: Loan Administrators, Credit Administrators.
- **Action**: Administrators can view the loan applications in the **Pending** or **Approved** screens:
  - **Pending**: Shows loan applications that are awaiting approval.
  - **Approved**: Shows loan applications that have received the necessary approvals.

### 7. Final Status Update

- **Who**: System.
- **Action**: Once the quorum is met, and the loan is approved, the system finalizes the approval and moves the loan application to the next stage in the workflow.