LOAN MANAGEMENT SYSTEM

USE CASE DIGRAM,

A Use Case Diagram is used to visualize the functional requirements of a system by representing the interactions between the system and external entities (actors). For the Loan Management System, actors typically include the following

* Borrower
* Loan officers
* Administrators

Components in Use Case Diagram:

* Actors: The entities interacting with the system.
  + Borrower (Customer)
  + Loan Officer
  + Admin
* Use Cases: The functions or services the system provides.
  + Apply for a loan
  + Loan approval/rejection
  + Manage loan repayments
  + Track loan status
  + Generate loan reports

Use Case Diagram for Loan Management System:

* Actors:

1. Borrower:

Apply for loan

check loan status

make repayments

2.Loan Officer:

Approve or reject loans

track loan statuses

generate reports

* + 1. Admin:

Manage users (borrowers and officers)

manage loan types

monitor system

SEQUENCE DIAGRAM

A Sequence Diagram models the flow of logic within a system by showing how objects interact with each other over time. In a Loan Management System, sequence diagrams will model processes like applying for a loan or processing a repayment.

Sequence Diagram for Loan Application Process:

1. Borrower

initiates loan application by filling in details (loan amount, term, etc.).

System validates the application.

1. Loan Officer

receives the application and reviews it.

Approves/rejects the loan.

System updates loan status and notifies the borrower.

Core Functional Components:

1. Loan Application: Borrower submits an application.
2. Loan Approval Process: Officer reviews, approves, or rejects the loan.
3. Loan Repayment Management: Borrower makes repayments.
4. Loan Status Tracking: Borrower and loan officer monitor the loan's current status.
5. Report Generation: Admin or loan officer generates reports on loans.
6. Notifications System: Updates sent to the borrower on loan application status or payment reminders.

file:///C:/Users/user/Downloads/Loan%20management%20system.drawio.pdf

(use case diagram and sequence diagram for loan management system)