

Leading bank with name “Suvidha Bank “, is developing a software for loan approvals. Need to design and develop software which can cater to following requirements –

Requirements -

1. Loans are given against collaterals. One loan can contain multiple collaterals. Consider below Collateral for our case study –
 - a. Vehicle registration or title
 - b. home title
 - c. insurance documents
 - d. fixed deposits.
2. Purpose for giving a loan could be one of the following:
 - a. Buying home
 - b. Vehicle
 - c. education
 - d. Marriage
 - e. hospitalization.
3. Customer(s) applying for loan need to share Id proof. Id proof includes any one of the following:
 - a. Passport
 - b. driving license
 - c. aadhar card.

In our use case we will use them as string.

4. Customer also need to share income proof like income tax returns, salary slips, joining letter. This is a Boolean variable signifying submitted or not.
5. All documents need to be uploaded along with the loan application.
6. Interest is calculated based on the loan term. Use following table for the same –

Term	Interest Rate
< 2 Years	5%
2-5 Years	6%
5-8 Years	8%
>8 Years	8.5%

7. Below are the criteria for rejection of loan
 - a. Loan amount cannot be 10 times of annual income
 - b. No collateral submitted
 - c. Income proof not attached
 - d. Identity document not submitted

Main actors –

Customer (s) – Person(s) applying for loan

Loan Approver – Bank employee approving or rejecting documents. He/She sets the status as true if approved with remarks as “Approved” and if rejected, updates the remarks accordingly specifying the reason as mentioned in point 7 above under “Requirements”.

Use Case –

- New customer can register on a bank portal
- Existing or new customer can apply for new loan and/or upload collaterals.
- Employee is assigned to every customer applying for loan.
- Assigned employee has the ability to approve or reject loan with respective remarks

Assumptions –

- Employees are already created and this lab will not register new employees
- Existing employees id will be used to approve or reject loan

Sample UML Diagram

