

## SOFTWARE ENGINEERING PRINCIPLES

### LAB –MIDTERM

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## Banking System

A bank wants to develop an online banking system that allows customers to view their accounts, transfer money, pay bills, and request loans.

- 1) Identify and document objectives, functional and non-functional requirements.

### **Objectives:**

The objective of the project is to build a online banking system that allows customers to view their accounts,transfer money ,pay bills and request loans through a dedicated application through which each user is supposed to login in and maintain a account for their own.

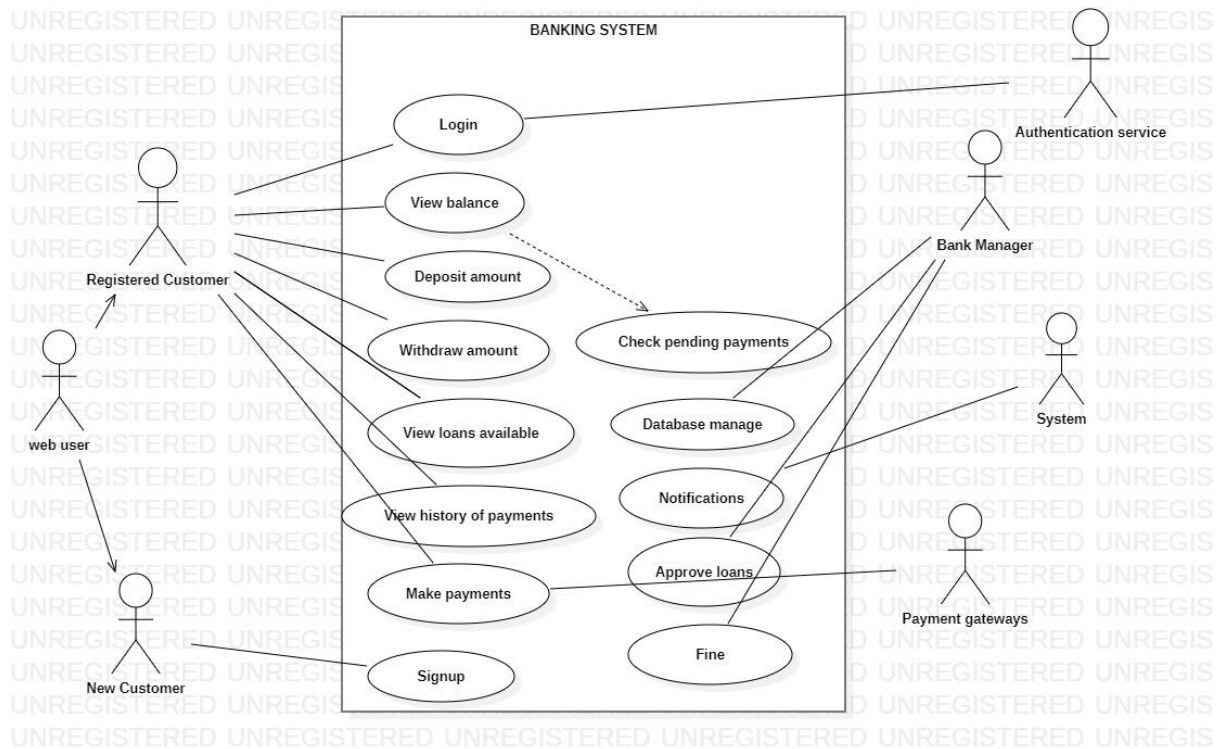
### **Functional Requirements:**

- 1)Login Page
- 2)Authenticataion
- 3)Withdraw amount
- 4)Deposit amount
- 5)View Balance
- 6)View avalailable plans for loans
- 7)Check pending payments
- 8)Notifications
- 9)Charge fine:  
If loan interest is not paid on time fine has to be charged

### **Non-Functional Requirements:**

- 1)Security:  
Secure payments and transactions
- 2)Reliability
- 3)Scalability: Easy to scale
- 4)Ease of usage:  
Good UI/UX design
- 5)Faster loading of page
- 5)passwords encrypted and confidentiality of payments

2) Draw Use Case Diagram illustrating the roles of Customer, Bank Manager, System.



3) Draw ER Diagram for Entities: Customer, Account, Transaction, Loan, Payment

