**M31885 SOFTWARE ENGINEERING THEORY AND PRACTICE (SETP)**

**Project Proposal for SETP Main Assignment**

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# Project Proposal

## Purpose

The purpose of this Project Proposal is to provide precise requirements definition of the Bank Application software (hereinafter known as “App”). The design and development of the App will be based on the functional specifications defined here.

## Key Objectives



The key objective of this project is to develop a platform 2 stakeholders, the Bank Employees, and the Bank Customer to: -

1. Create and manage accounts for both Bank Employees and Bank Customers.
2. Allow Bank Employees to track Customer’s transactions history.
3. Allow Bank Customers to check their bank balance, transfer money between accounts.
4. Allow Bank Customers to apply for a bank loan.
5. Allow Bank Employee to manage Customer’s loan requests.
6. Allow Bank Customers to pay back their bank loans and view their loan status.

## Main Features/Services



The App shall have these key features/modules: -

* User Management
* Loan Management (Approval/Rejection)
* Loan Due Notification
* Customer home page
* Transaction History
* Request Loan
* Transfer Money to another account
* Payback Loan
* Loan Due Notification

## Assumptions and Dependencies



One Bank Employee must first create the accounts for other Bank Employees as well as Customers with the system before the system can be used.

## User Roles and Access Permissions

|  |  |  |  |
| --- | --- | --- | --- |
| **Module/Feature** | **Remarks** | **App Role** | |
| Bank Employee | Customer |
| User Management | Manage / Register | ✓ | ✖ |
| Loan Management (Approval/Rejection) | Manage | ✓ | ✖ |
| Loan Due Notification | View | ✖ | ✓ |
| Customer Home Page | View | ✖ | ✓ |
| Transaction History | View (according to permission role) | ✓ | ✓ |
| Request Loan | Manage | ✖ | ✓ |
| Transfer Money to another account | Manage | ✓ | ✓ |
| Payback loan | Manage | ✖ | ✓ |

## Resources Required

# PROJECT PLAN: WBS, PERT and Gantt Charts

# SYSTEM REQUIREMENTS SPECIFICATION

## Account Registration (For Bank Employee / Customer)



### There are two (2) types of users available for creation: -

* Bank Employee
* Bank Customer

### Bank Employee can create new Bank Employee accounts that have identical user roles and Bank Customers account.

### Only Bank Employee account users can create other Bank Employees and Bank Customer account.

### The User Management will display the appropriate registration form to the user for registration. Please refer to Appendix A for more details on the registration workflow.

### Bank Customer account is assigned by the Bank Employee.

### System to allow Bank Employee to add new / edit / delete Bank Customers account.

### Please refer to SETP-001: Add User Details for Bank Employee user account creation.

### Please refer to SETP-001: Add User Details for Bank Customer user account creation.

## Bank Employee

### 

## Bank Customer



### 

## Business Rules for User Registration

|  |  |  |
| --- | --- | --- |
| **No.** | Scenario | Business Rule |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |
| **4** |  |  |

# PROCESS MODEL

# DESIGN OF THE SYSTEM

## Bank Application Use Case Diagram <<include other charts here>>

Diagram

Description automatically generated

# QUALITY ASSURANCE PLAN

# IMPLEMENTATION AND TESTING