**Bank Management System**

**By**

**Ahmed Bin Khalid (FA20-BSE-062)**

**Zain Asif (FA20-BSE-136)**

**Hassan Javed (FA20-BSE-143)**

**Rahim Durrani (FA20-BSE-050)**

**Muhammad Hashir (FA20-BSE-079)**

**Ghulam Abbass (FA20-BSE-053)**

**Mubashir Ahmed (FA20-BSE-063)**

**Supervisor**

**Sir Mukhtiar Zamin**

Object Oriented Software Engineering

The candidate confirms that the work submitted is their own and appropriate credit has been given where reference has been made to the work of others.



**Department of Computer Science**

**COMSATS University Islamabad**

**Abbottabad Campus**

Contents

[1](#_Toc100828056)

[Chapter 1 : Proposal 3](#_Toc100828057)

[**Bank Management System Project Proposal** 3](#_Toc100828058)

[**Description** 3](#_Toc100828059)

[**Objectives** 3](#_Toc100828060)

[**Scope** 3](#_Toc100828061)

[Attributes**:** 4](#_Toc100828062)

[Chapter 2: Use Cases 9](#_Toc100828063)

[Use Case Diagram 9](#_Toc100828064)

[Brief Level 9](#_Toc100828065)

[Mubusher Ahmad (FLJASFJ)\ 9](#_Toc100828066)

[Pay Bills 9](#_Toc100828067)

[Transfer Funds 9](#_Toc100828068)

[Fully Dressed Use Cases 9](#_Toc100828069)

# Chapter 1 : Proposal

**Bank Management System Project Proposal**

The bank management system project proposal states the solution and the problems faced by bank management. It should contain the project objectives, scope, and description.

## **Description**

The Bank Management System (BMS) is a web-based tool that is used to reimburse financial institutions for services rendered to the Bureau of the Fiscal Service. In addition, BMS provides analytical tools for reviewing and approving salaries, budgets, and outflows.

## **Objectives**

The goal of the bank management system project is to create an organic and optimal software of interaction between the various banking components. This is to maximize the profit of the banking mechanism. The implementation of competent bank management procedures is significantly responsible for the successful optimization of the bank’s productivity and activities.  
  
The project’s main goal is to create an online banking system for banks. All banking work is done manually in the current system. To withdraw or deposit money, the user must go to the bank. Today, it is also hard to find account information for people who have accounts in the banking system.

## **Scope**

Depending on the bank’s policies, bank personnel and/or customers can utilize the Banking Management System. It can be utilized by multiple employees at the same time if they have the necessary permissions. Any web browser with a graphical interface can be used to access it.

**Objects, Attributes and Methods:**

Some of the possible Objects, Attributes and their methods along with their behavior are as follows for the bank management system.

**Objects:**

1. Bank
2. Branch of bank
3. Customer
4. Manager
5. Accountant
6. Cashier
7. Head-Department
8. Bank Advisor
9. Security Manger/
10. Guidance
11. Complain Department
12. Loan Department
13. ATM Service
14. Bank Account
15. Bank Database

## **Attributes:**

**Accountant:**

Bank accountants oversee daily transactions in order to be certain that books balance at the end of the day

* Accountant Name
* Accountant ID
* Accountant number
* Account Age
* Accountant Service

**Behavior:**

* Prepare Payment
* Examine Customer Record
* Prepare Reports
* Add Accounts
* Edit Accounts
* Delete Accounts

**Marketing Office**:

Marketing officer is a top-level position in banks, employers may prefer that they have five or more years of experience in marketing or bank marketing.

* Marketing Officer Name
* Marketing Officer ID
* Marketing Officer Service
* Marketing Office Address

**Behavior:**

* Involves advertisements activities
* advertising budgets
* Advertising advert agencies.
* increase sales
* attract new consumers

**Loan:**

A loan is a form of debt incurred by an individual or other entity.

* Loan No
* Loan Amount
* Loan Type

**Behavior:**

* Add Loan
* Update

**Maintenance:**

The maintenance team, which are those people who have a full understanding of the system's functional and technical aspects.

* Maintenance type

**Behavior:**

* identify waste
* Fix bugs
* Update Security

**Cashier**

Their duties covers assisting customers with daily cash inquiries which includes accepting credit slips, sorting of checks, and ensuring a balance in all transactions at the end of the working period.

**Consultant**

Their duties are to define the Bank's policies, development projects to the clients

**Complaint management team**

If a person is aggrieved with any service of the bank they can file a complaint to complaint management team and they make sure to sort out the problem

**Bank database**

Bank uses database to keep track on customer account, balances and deposits. it allows bank to have a new latest copy of its customer data.

It stores all type of data that is uses in the bank.

**ATTRIBUTES**

**Cashier**

* Id
* Name

**Consultant**

* Id
* Name

**Complaint management system**

* Id
* Names

**Bank database**

* Login
* Store data
* Delete data
* Transfer data

**Currency interchange:**

A currency exchange is a licensed business that allows customer to exchange one currency for another currency. It also provides the service to exchange old currency with new currency.

* Renew currency notes
* Exchange for another currency

1. Type
2. Rate
3. interest

**Insurance:**

Bank insurance is a guarantee of deposits in a bank. It also provides the service of life, vehicle and house insurance to the clients.

* Life insurance
* Car insurance
* Education insurance
* Health insurance
* Home insurance

1. Name
2. Id
3. Installment
4. Duration

**Online assistance:**

Most banks generally offers basic services such as transfers and bill payments. Some banks also allow customers to open up new accounts and apply for credit cards through online banking portals.

* Up-to-date account activity
* Mobile deposit
* Online Billing
* Check account balance
* Card control service

1. Online id
2. Address
3. Contact
4. Online fee

**Cards:**

A bank card is a payment card issued by a bank. Bank cards let customer’s access funds in checking or savings accounts or make a purchases against a line of credit.

* Transaction
* Billing

1. Type of cards
2. Grace period
3. Credit card fee
4. Credit limit
5. Interest rate

# Chapter 2: Use Cases

## Use Case Diagram

## Brief Level

### Mubusher Ahmad (FLJASFJ)\

#### Pay Bills

This is a one para of the use case positive scenarion

#### Transfer Funds

Asdljasfklsadf asdfkjsdf

## Fully Dressed Use Cases