Cloud Project

ON

BANK MANAGEMENT SYSTEM



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Introduction

Bank Management System (BMS) is an online platform for delivering various services to its customers like that of loan, interests, Pay/send money, account registration, manager login.

Requirements Analysis

Users can include any individual with a valid id proof such as pancard number or adhaar card number.

Users can login with their valid userid and password combination.

Manager login will be provided so as to revive the blocked accounts for some reason or to permit the cash/loan transactions of large amounts.

User Table :

|  |  |
| --- | --- |
| customer\_id | Integer |
| Name | Varchar(256) |
| Password | Text |
| Verification\_type | Varchar(256) |
| Verification\_number | Varchar(256) |
| Status(active/blocked) | Varchar(256) |
| Security\_question | Text |
| Security\_answer | text |

Admin table

|  |  |
| --- | --- |
| Admin\_id | Integer |
| Name | Text |
| Password | Text |

Transaction table :

|  |  |
| --- | --- |
| Transaction\_id | Integer |
| User\_id\_from | Integer |
| User\_id\_to | Integer |
| Amount | Integer |
| Timestamp | Date |
| Mode(check/cash) | Varchar(256) |
| Status(pending/success) | text |

accounts table :

|  |  |
| --- | --- |
| User\_id | Integer |
| Account\_id | Integer |
| Account\_type | Text |
| Amount | Integer |
| Pin | Integer |
| Loan | Integer |

Loan table :

|  |  |
| --- | --- |
| Loan\_id | Integer |
| Transaction\_id | integer |
| Account\_id | Integer |
| Rate | Double |
| Principal | Integer |
| Duration | integer |

|  |
| --- |
| Admin\_table |
| Admin\_id  Name  Password |

Many

|  |
| --- |
| Loan\_table |
| Loan\_id  Transaction\_id  Account\_id  Rate  Principal  Duration |

|  |
| --- |
| Transaction\_table |
| Transaction\_id  User\_id\_from  User\_id\_to  Amount  Timestamp  Mode(check/cash)  Status(pending/success) |

|  |
| --- |
| User\_table |
| User\_id  Name  Password  Verification\_type  Verification\_number  Status(active/blocked)  Security\_question  Security\_answer |

|  |
| --- |
| Accounts |
| User\_id  Account\_id  Account\_type  Amount  Pin  Loan |

Many

One Many

One

One

Many

One

**High Level Design**

Home Page

Approval Requests

Manager Login

User profile page

User Login

Notification Tab

Transaction History

Loans

New transactions

(Add/send money)

**Presentation tier code using Servlets and JSPs**

The application contains the JSP pages, such as the home page, signup page, login page, Profile page, Transaction page , Notification page. These components contain the presentation logic for user-related functionality such as transactions between different users , application for loans and profile management. In addition, the manager page contains the presentation logic for manager-related functionality such as approval of transactions and loans.