



**Daffodil**  
*International*  
**University**

# Micro Loan Management System

## Supervised by

**Md. Habibur Rahman**

**Lecturer**

Department of Software Engineering

Faculty of Science and Information Technology

Daffodil International University

## Submitted By

MD. Rokonuzzaman Sarker

ID: 142 - 35 -666

&

Md. Aktarujjaman

ID: 142-35-682

This Project report has been submitted in fulfillment of the requirements for the Degree of  
Bachelor of Science in Software Engineering.

**Department of Software Engineering**

**Daffodil International University**

**December – 2018**

## Declaration

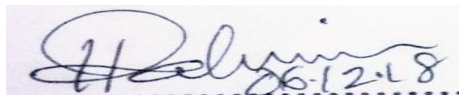
We hereby declare that we have taken this project under the supervision of Mr. **Md. Habibur Rahman, and Department of Software Engineering, Daffodil International University**. We also declare that neither this project nor any part of this report has been submitted elsewhere for award of any degree.

### Submitted By:

.....  
**Md. Rokonzaman Sarker**  
ID: 142 - 35 – 703  
Department of Software Engineering  
Faculty of Science and Information Technology  
Daffodil International University

.....  
**Md. Aktarujjaman**  
ID: 142 - 35 - 682  
Department of Software Engineering  
Faculty of Science and Information Technology  
Daffodil International University

### Certified By:

Handwritten signature of Md. Habibur Rahman in blue ink, with the date 26.12.18 written below it.

.....  
**Md. Habibur Rahman**  
**Lecturer**  
Department of Software Engineering  
Faculty of Science and Information Technology  
Daffodil International University

## ACKNOWLEDGEMENT

First of all I would like to express my heartiest thanks gratefulness to Almighty **ALLAH** for **HIS** Kindness, heavenly blessing made it possible to complete my project successfully.

I feel grateful to elicit my termless honor and respect to my supervisor, **Habibur Rahman, Lecturer, Department of Software Engineering, Daffodil International University** for his deep knowledge and self interest in the field of software development that affected me to carry out of this project His friendly support, endless patience, which have driven me throughout our work.

I would like to express my heartiest gratitude to **Dr.Touhid Bhuiyan, Professor and Head, Department of Software Engineering, Daffodil International University** for his kind help to finish my project and also to other faculty members, the staff of the Software Engineering Department, Daffodil International University.

Finally, I must recognize with due respect the steady support and patients of my Family and friends for completing this project.

## Table of Contents

| Contents              | Page |
|-----------------------|------|
| Approval .....        | i    |
| Declaration .....     | ii   |
| Acknowledgement ..... | iii  |
| List of Figures ..... | vi   |
| List of Tables .....  | vii  |

### **Chapter 1: Introduction..... 1-2**

|                                      |    |
|--------------------------------------|----|
| 1.1 Project Overview.....            | 01 |
| 1.2 Purpose of the projects .....    | 01 |
| 1.2.1 Backgrounds .....              | 01 |
| 1.2.2 Benefits & Beneficiaries ..... | 02 |
| 1.3 Stakeholder .....                | 02 |
| 1.4 Project Schedule.....            | 02 |
| 1.4.1 Gantt Chart.....               | 02 |

### **Chapter 2: Software Requirement Specification .....3-5**

|   |    |
|---|----|
| 2.1 Functional Requirements.....          | 03 |
| 2.2 Non-Functional requirements.....      | 04 |
| 2.2.1 Performance Requirements.....       | 04 |
| 2.2.1.1 Capacity Requirements.....        | 04 |
| 2.2.2 Dependability Requirements.....     | 04 |
| 2.2.2.1 Availability Requirements.....    | 04 |
| 2.2.2.2 Safety-Critical Requirements..... | 04 |
| 2.2.3 Security Requirements.....          | 04 |
| 2.2.3.1 Access Requirements.....          | 04 |
| 2.2.3.2 Integrity Requirements.....       | 04 |
| 2.2.3.3 Privacy Requirements.....         | 04 |
| 2.3 Assumption and Dependencies .....     | 05 |
| 2.3.1 Data Entry.....                     | 05 |
| 2.3.2 Server/Hardware Performance.....    | 05 |
| 2.3.3 Browser Dependency.....             | 05 |

### **Chapter 3: System Analysis.....6-17**

|                                |    |
|--------------------------------|----|
| 3.1 Use Case Diagram.....      | 06 |
| 3.2 Use Case Description ..... | 07 |
| 3.3 Activity Diagram .....     | 12 |

|   |              |
|---|--------------|
| 3.2.1 User Activity Diagram.....                                | 12           |
| 3.2.2 Manager Activity Diagram.....                             | 13           |
| 3.4 Sequence Diagram.....                                       | 14           |
| 3.4.1 User Sequence Diagram.....                                | 14           |
| 3.4.2 Manager Sequence Diagram.....                             | 15           |
| <b>Chapter 4: System Design Specification.....</b>              | <b>16-17</b> |
| 4.1 ER Diagram.....   | 16           |
| 4.2 Development Tools & Technology.....                         | 17           |
| 4.2.1 Software Language or Framework.....                       | 17           |
| 4.2.2 Development Tools and Technology .....                    | 17           |
| <b>Chapter 5: System Testing .....</b>                          | <b>18-20</b> |
| 5.1 Testing Features.....                                       | 18           |
| 5.2 Testing Strategies.....                                     | 18           |
| 5.2.1 Test Approach.....  | 18           |
| 5.2.2 Test category .....                                       | 18           |
| 5.2.3 Testing Environment (hardware/software requirement) ..... | 18           |
| 5.3 Test Cases.....   | 19           |
| 5.3.1 Authentication .....                                      | 19           |
| 5.3.2 Login.....  | 19           |
| 5.3.3 Apply loan.....   | 19           |
| 5.3.4 Loan Approve .....  | 20           |
| 5.3.5 System Check .....  | 20           |
| <b>Chapter 6 User Manual.....</b>                               | <b>21-30</b> |
| 6.1 User .....  | 21           |
| 6.1.1 Apply Loan page.....                                      | 21           |
| 6.1.2 Loan Status.....  | 22           |
| 6.1.3 User Loan List.....                                       | 22           |
| 6.1.4 Loan Details.....   | 23           |
| 6.1.5 Add EMI.....  | 23           |
| 6.2 Manager.....  | 24           |
| 6.1.1 Add Manage.....   | 24           |
| 6.1.2 Manager List.....   | 24           |
| 6.1.3 Approve Loan .....  | 25           |
| <b>Chapter 7: Project Summery.....</b>                          | <b>26-26</b> |
| 7.1 Critical Evolution.....                                     | 26           |
| 7.2 Future Scope.....   | 26           |
| <b>Chapter 7: Conclusion.....</b>                               | <b>27</b>    |

|                                   |           |
|-----------------------------------|-----------|
| <b>Chapter 8: References.....</b> | <b>28</b> |
|-----------------------------------|-----------|

## LIST OF FIGURE

---

|  |    |
|--|----|
| <b>Fig 1.4.1:</b> Gantt chart.....               | 02 |
| <b>Fig 3.1:</b> Use case diagram .....           | 06 |
| <b>Fig 3.3.1:</b> User Activity Diagram .....    | 12 |
| <b>Fig 3.3.2:</b> Manager Activity Diagram ..... | 13 |
| <b>Fig 3.4.1:</b> User sequence diagram .....    | 14 |
| <b>Fig 3.4.2:</b> Manager sequence diagram ..... | 15 |
| <b>Fig 4.1:</b> Entity relationship diagram..... | 16 |
| <b>Fig 6.1.1:</b> Apply Loan Page .....          | 21 |
| <b>Fig 6.1.2:</b> Loan Status.....               | 22 |
| <b>Fig 6.1.3:</b> User Loan List .....           | 22 |
| <b>Fig 6.1.4:</b> Loan Details .....             | 23 |
| <b>Fig 6.1.5:</b> Add EMI .....                  | 23 |
| <b>Fig 6.2.1:</b> Add Manager.....               | 24 |
| <b>Fig 6.2.2:</b> Manager List.....              | 24 |
| <b>Fig 6.2.3:</b> Loan Approve.....              | 25 |

## LIST OF TABLE

---

|  |    |
|--|----|
| <b>Table 2.1:</b> Functional Requirement.....                    | 03 |
| <b>Table 3.2.1:</b> Use case description for Authentication..... | 07 |
| <b>Table 3.2.2:</b> Use case description Apply Loan.....         | 07 |
| <b>Table 3.2.3:</b> Use case description Balance Enquiry.....    | 08 |
| <b>Table 3.2.4:</b> Use case description Report.....             | 08 |
| <b>Table 3.2.5:</b> Use case description View Loan Status.....   | 09 |
| <b>Table 3.2.6:</b> Use case description Rules & Regulation..... | 09 |
| <b>Table 5.2.7:</b> Use case description View Loan Details.....  | 10 |
| <b>Table 5.2.8:</b> Use case description Provide Review .....    | 10 |
| <b>Table 5.2.9:</b> Use case description Loan Approve .....      | 11 |
| <b>Table 5.3.1:</b> Test case Authentication.....                | 19 |
| <b>Table 5.3.2:</b> Test case Login .....                        | 19 |
| <b>Table 5.3.3:</b> Test case Apply Loan.....                    | 19 |
| <b>Table 5.3.4:</b> Test case Loan Approve.....                  | 20 |
| <b>Table 5.3.5:</b> Test case System check.....                  | 20 |

# **Chapter 1: Introduction**

## **1.1 Project Overview**

“Micro Loan Management System ” builds for easy, effective, immediate and provides quick service for Customers and bank. We propose to build a web application that can efficiently handle and manage various activities of a Loan management. This is very instructive and fully hassle free online web application which is fast and secured and the system have some fixed service wise stakeholder.

A user fulfills his/her information (Salary details, Bank statement, income statements, NID card, Mobile number etc.) and only authenticate user can apply for loan online. It will be authenticate for Administration and Manager. When the customers complete his/her activities then the administration will take a decision weather he/she is eligible for loan. Administration can view the customer all information and feedback report. It will be happening under the supervision of the organization decision.

## **1.2 Project Purpose**

### **1.2.1 Background**

Online service provider application is a process of providing service via online. User getting there service without any hassle. User also check there activity. This system also Bank and User friendly which are bank authority provide their service, they can check service request, accept customers service, user location.

Currently most service provider application provide their service own way user need to choose loan service and request for a Bank loan then administration contact their own time to providing service.

### 1.2.2 Benefits & Beneficiaries

Benefits of this project are very broad in terms of other manually taking bank loan.

Few of them are:

- ❖ It helps apply Bank loan online for customer
- ❖ This system will save a lot of time for customer and bank authority
- ❖ Customers don't have to present physically in the bank for bank loans
- ❖ Automates the working of online system
- ❖ No time is spent on evaluation
- ❖ Can be easily accessed 24/7 over the open test period
- ❖ Easy Accessibility
- ❖ User friendly
- ❖ Secure because of authentication
- ❖ Convenience, security and flexibility
- ❖ Exams can be assembled and previewed, edited and printed forthwith

### 1.3 Stakeholders

- ❖ User
- ❖ Administrator
- ❖ Manager

### 1.4 Project Schedule

#### 1.4.1 Gantt chart

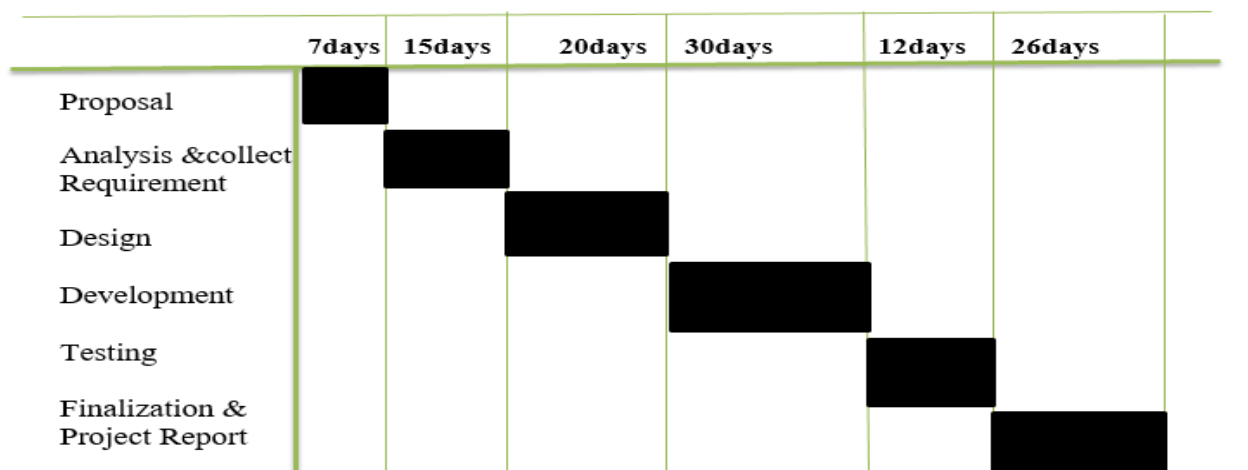


Fig: 1.4.1 Gantt chart

## Chapter 2: Software Requirement Specification

**Table 2.1 Functional Requirements**

| SRS Id   | SRS Name                 | SRS Description  | SRS Type | Priority |
|----------|--------------------------|--|----------|----------|
| SRS -01  | User Registration        | All user and manager must be registered in this application and authenticate by administrator. | FR       | H        |
| SRS - 02 | Apply Loan               | A authenticate user can apply for loan.  | FR       | H        |
| SRS - 03 | Balance enquiry          | Manager can check user balance.  | FR       | H        |
| SRS - 04 | View Loan Status         | User can view their Loan Status.   | FR       | H        |
| SRS - 05 | See rules and regulation | Application can show the bank rules and regulation.  | NR       | M        |
| SRS -06  | Provide Review           | Administrator or manager can review user application or status.                                | NR       | M        |
| SRS - 07 | Loan Approve             | Administrator or manager can approve application.  | FR       | M        |
| SRS -08  | Report                   | Manger can provide report.   | FR       | M        |
| SRS - 09 | View Loan Details        | Administrator or manager can view loan details.  | FR       | H        |

### **SRS Type-**

1. FR – Functional requirement
2. NR – Non-functional requirement
3. SRS – Software Requirements Specification

### **Priority-**

1. H – High
2. M – Medium
3. L - Low

## **2.2 Non-Functional requirements**

### **2.2.1 Performance Requirements**

#### **2.2.1.1 Capacity Requirements:**

This system almost handles 1000 requests at a time .It test in local server.  
It also provides on demand delivery on call. In local server aspect.

### **2.2.2 Dependability Requirements**

#### **2.2.2.1 Availability Requirements**

User can open site anytime to access other data. This system must operate on multiple operating systems and support Windows Operating System.

#### **2.2.2.2 Safety-Critical Requirements**

Token base responses are more than secure then the normal redirect response. User credential, user permission and also policy for different user are divide by providing access token which provide from our system.

### **2.2.3 Security Requirements**

#### **2.2.3.1 Access Requirements**

We use advance token base two factor authentication system with proper user authorization. In this authorization system user must need to provide legal credential. Then our system provides an access token for the user. Without use the token no one can access the selected route. The token provide user details with user privilege log.

#### **2.2.3.2 Integrity Requirements**

The loan management system helps for NGO or user the loan management process. The system every post request must have ensuring their activity that each request to a server. As well as the get, put and delete request provide the system. Every user using the system cans easy access for their need.

#### **2.2.3.3 Privacy Requirements**

Privacy is the most important think in the system. So, the system store token on data base and the all is secure on database.

## **2.3 Assumption and Dependencies**

### **2.3.1 Data Entry**

Though the data entry operation is out of the scope of Loan Management System, but for giving it a standard look our team has added some meaningful data to check the compatibility of the system. Supply of correct information is possible only when valid data is entered in the database. Since the data entry is a separate task and will be performed by the authority, the authority will be responsible for the validity of the information to be provided to the user through online system.

### **2.3.2 Server/Hardware Performance**

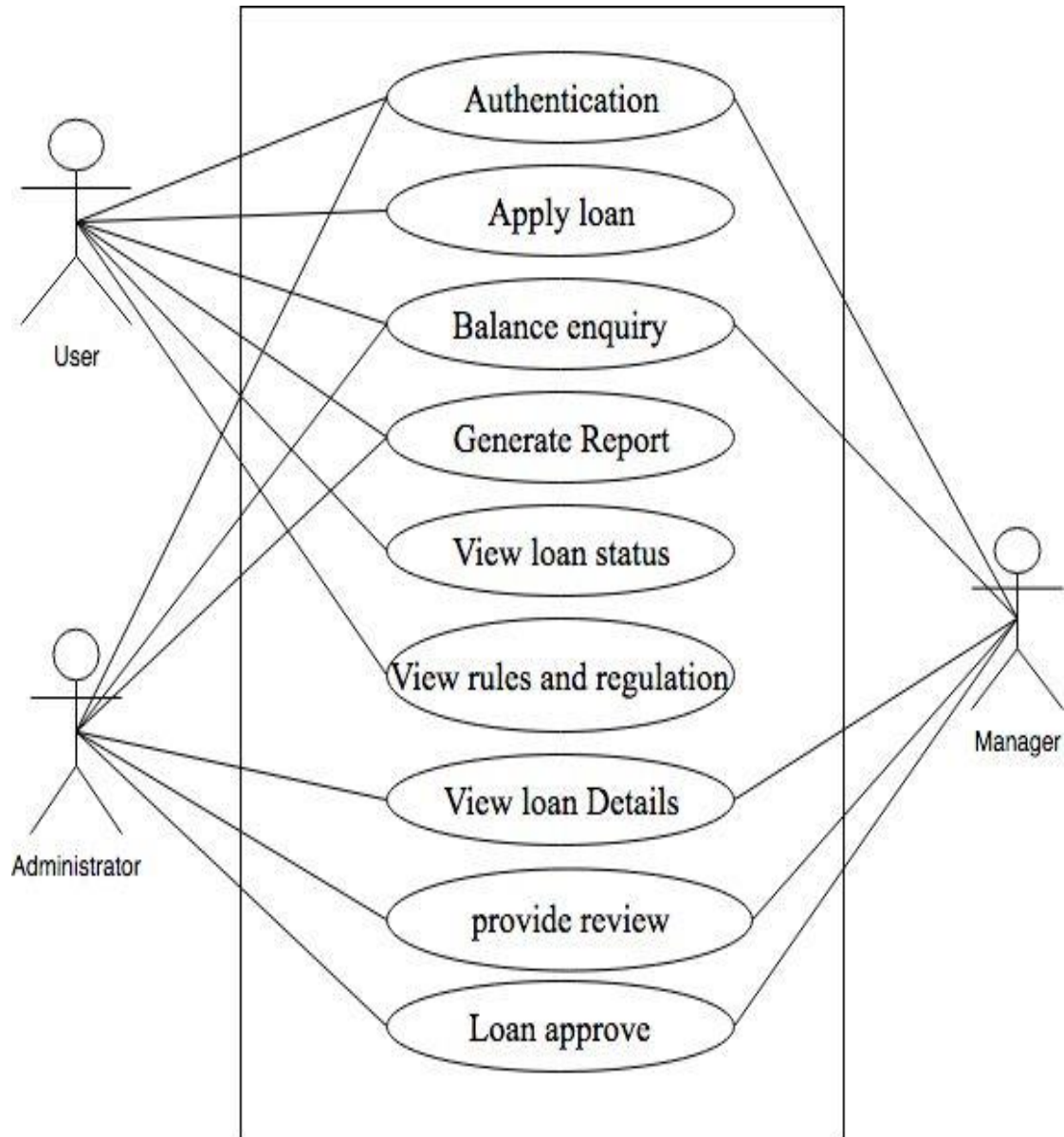
Loan Management System team is not responsible for providing servers or hardware. However, the performance of software sometimes depends on the hardware or server machine in which it is running.

### **2.3.3 Browser Dependency**

The Loan Management System will be compatible with any JavaScript enabled open standard browsers, and it will also support Internet Explorer, Mozilla Firefox (any last version) and other compatible browsers.

## Chapter 3: System Analysis

### 3.1 Use Case Diagram



**Fig: 3.1 Use case Diagram**

## 3.2 Use case description

**Table 3.2.1 Authentication**

|                   |  |
|-------------------|--|
| Use case name     | Authentication   |
| Pre-condition     | User need to insert data for proper authentication   |
| Trigger           | Login button or new user for registration  |
| Actors            | Authentication for Administration and Manager  |
| Description       | <ul style="list-style-type: none"><li>❖ All Type Of user must authenticate to use this system</li><li>❖ Fill all the criteria related to the authentication</li><li>❖ Submit for login or registration</li></ul> |
| Alternative flows | On registration should check user role   |
| Post condition    | The Authenticated user data are show in where it necessary   |

**Table 3.2.2 Apply Loan**

|                   |   |
|-------------------|---|
| Use case name     | Apply Loan  |
| Pre-condition     | User need to insert data for loan   |
| Trigger           | Add apply button work for it  |
| Actors            | Only authenticate user can apply for loan   |
| Description       | Users should submit all documents for loan. Authenticated user can apply for loan |
| Alternative flows | User can report to authority or can apply other category                          |
| Post condition    | User get confirmation message/mail  |

**Table 3.2.3 Balance Enquiry**

|                   |   |
|-------------------|---|
| Use case name     | Balance Enquiry   |
| Pre-condition     | User will be authorized                                       |
| Trigger           | Balance menu work for it                                      |
| Actors            | Authorized user can enquiry about balance                     |
| Description       | An authorized user can check balance and Installment for loan |
| Alternative flows | User can report to authority                                  |
| Post condition    | User can generate balance report as pdf format                |

**Table 3.2.4 Report**

|                   |  |
|-------------------|--|
| Use case name     | Report   |
| Pre-condition     | User will get loan for get report  |
| Trigger           | Get report button work for it  |
| Actors            | All user can get their individual report                                     |
| Description       | Report will be generating as pdf format and user can download the pdf format |
| Alternative flows | User can get screenshot for this page  |
| Post condition    | The data are show in where it necessary                                      |

**Table 3.2.5 View loan status**

|                   |  |
|-------------------|--|
| Use case name     | View loan Status                               |
| Pre-condition     | User need to press the button view loan status |
| Trigger           | View loan status button work for it            |
| Actors            | Only authenticate user can perform             |
| Description       | User can view their loan status                |
| Alternative flows | User can get screenshot for this page          |
| Post condition    | He can able to access others function          |

**Table 3.2. 6 See Rules and regulation**

|                   |  |
|-------------------|--|
| Use case name     | See Rules and Regulation                                     |
| Pre-condition     | User need to press the button Rules and Regulation           |
| Trigger           | View loan status button work for it                          |
| Actors            | User can perform in this case                                |
| Description       | When users apply for loan they will see rules and regulation |
| Alternative flows | They will can another activity                               |
| Post condition    | They can to access others function                           |

**Table 3.2.7 View Loan Details**

|                   |  |
|-------------------|--|
| Use case name     | View Loan Details  |
| Pre-condition     | All actors can view loan details                             |
| Trigger           | Loan title “click details “button work for it. click details |
| Actors            | User, manager and administrator                              |
| Description       | See all users loan details when loan approved                |
| Alternative flows | If it is not working, then system error report               |
| Post condition    | All actors can next step for loan                            |

**Table 3.2.8 Provide Review**

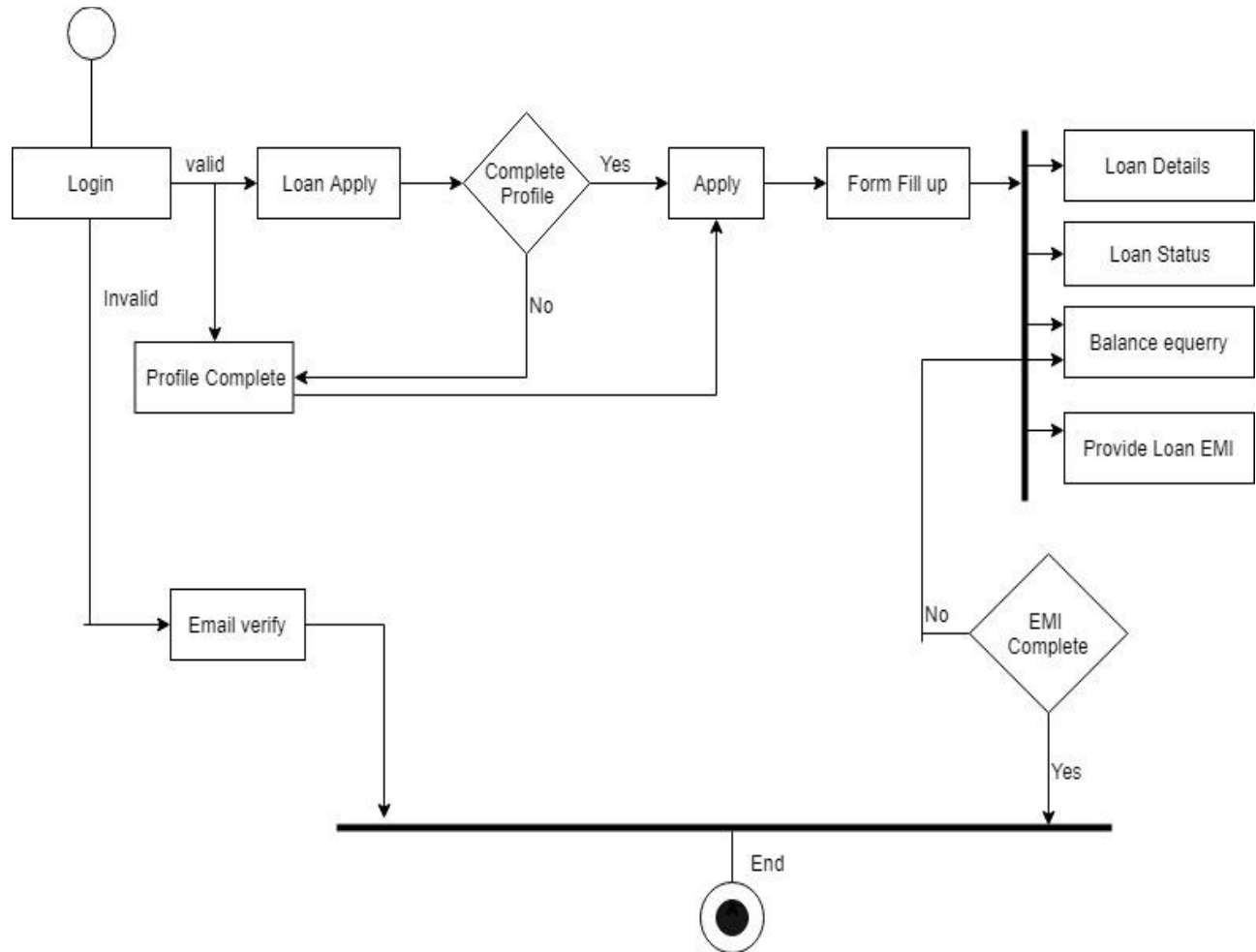
|                   |  |
|-------------------|--|
| Use case name     | Provide Review   |
| Pre-condition     | Manager can feedback the selected loan                       |
| Trigger           | Add feedback button work for it                              |
| Actors            | Manager can provide review                                   |
| Description       | When manager can review then manager comment for loan status |
| Alternative flows | Manager can edit comment                                     |
| Post condition    | Another option can access                                    |

**Table 3.2.9 Loan Approve**

|                   |   |
|-------------------|---|
| Use case name     | Loan Approve  |
| Pre-condition     | All valid documents should be submitted   |
| Trigger           | Approved check box work for it  |
| Actors            | Administrator and manager can approved loan   |
| Description       | When user apply for loan and his all submitted documents are valid then Administrator and Manager can approved loan |
| Alternative flows | If it is not working, then system error report  |
| Post condition    | User can apply for other categories loan if he want   |

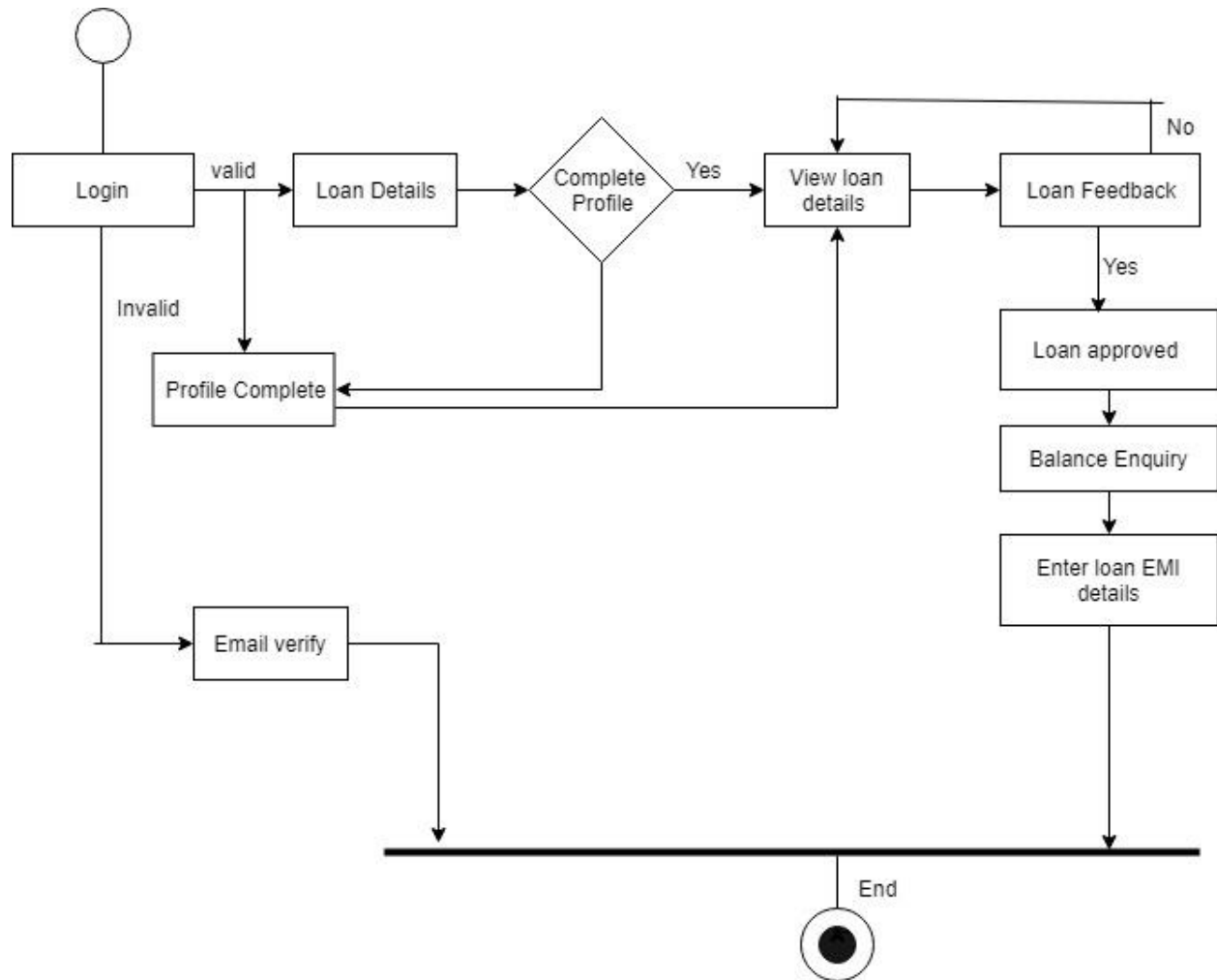
### 3.3 Activity Diagram

#### 3.3.1 User Activity Diagram



**Fig: 3.3.1 User Activity Diagram**

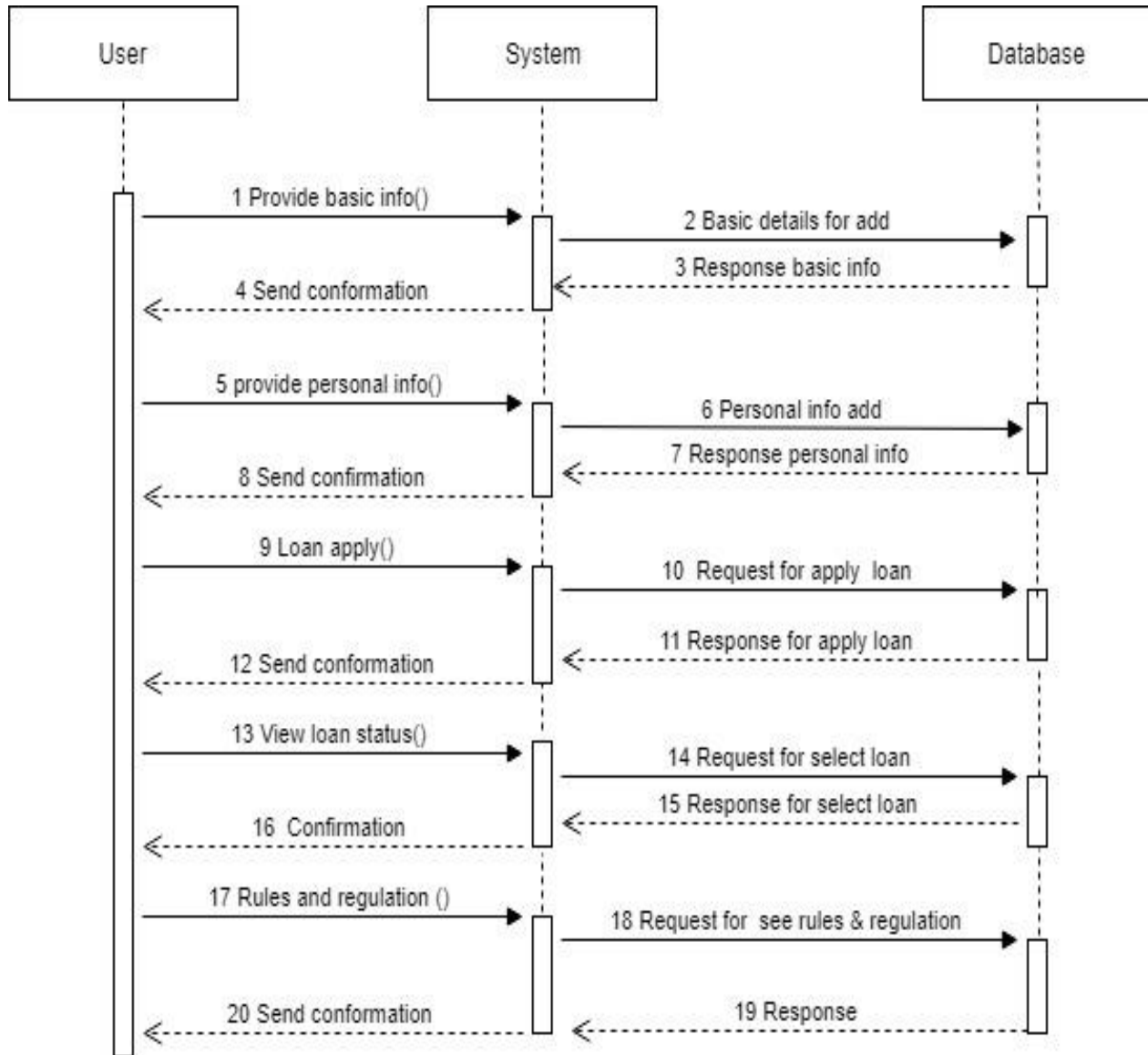
### 3.3.2 Manager Activity Diagram



**Fig: 3.3.2 Manager Activity Diagram**

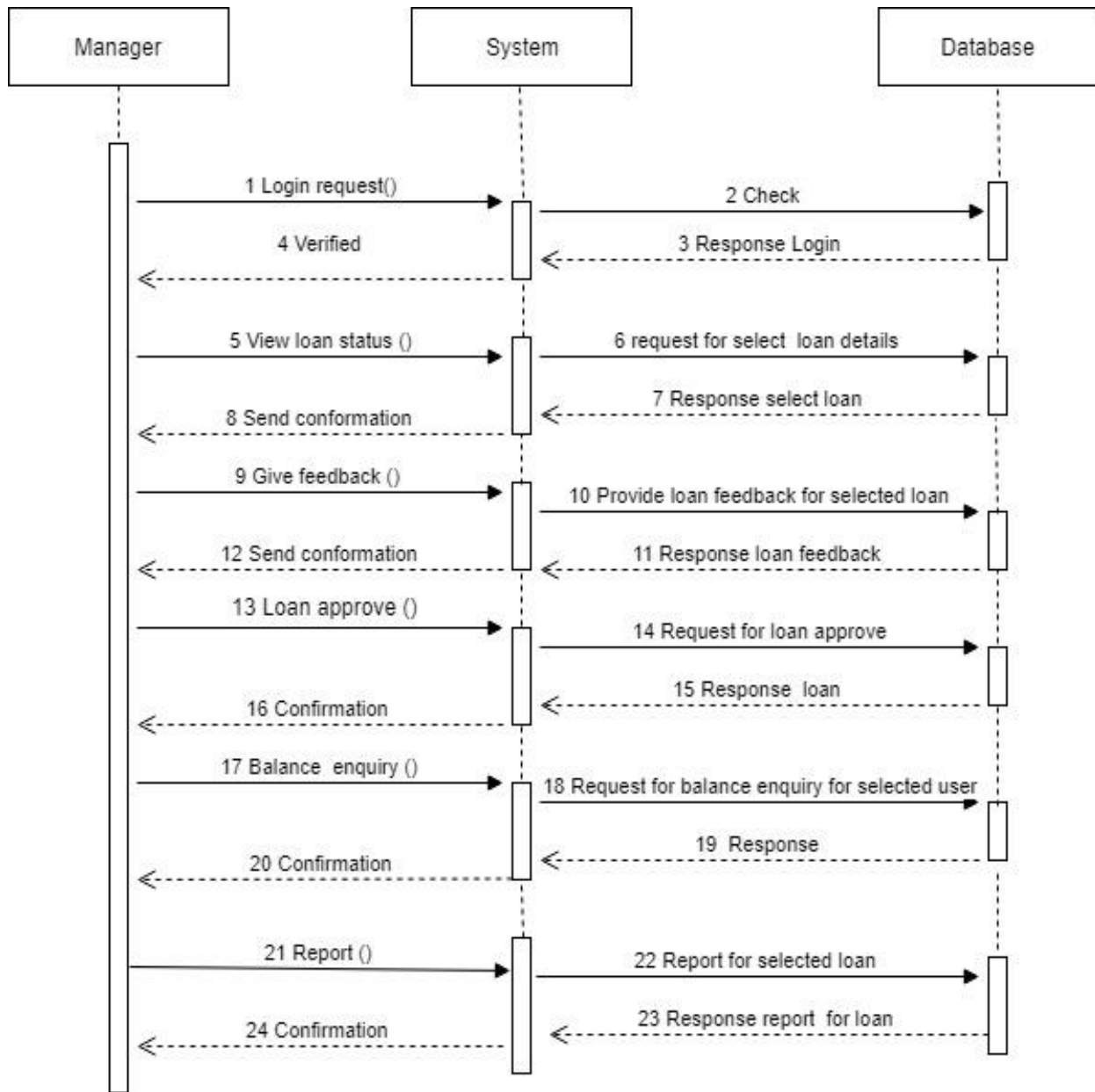
### 3.4 System Sequence Diagram

#### 3.4.1 User Sequence Diagram



**Fig: 3.4.1 User Sequence Diagram**

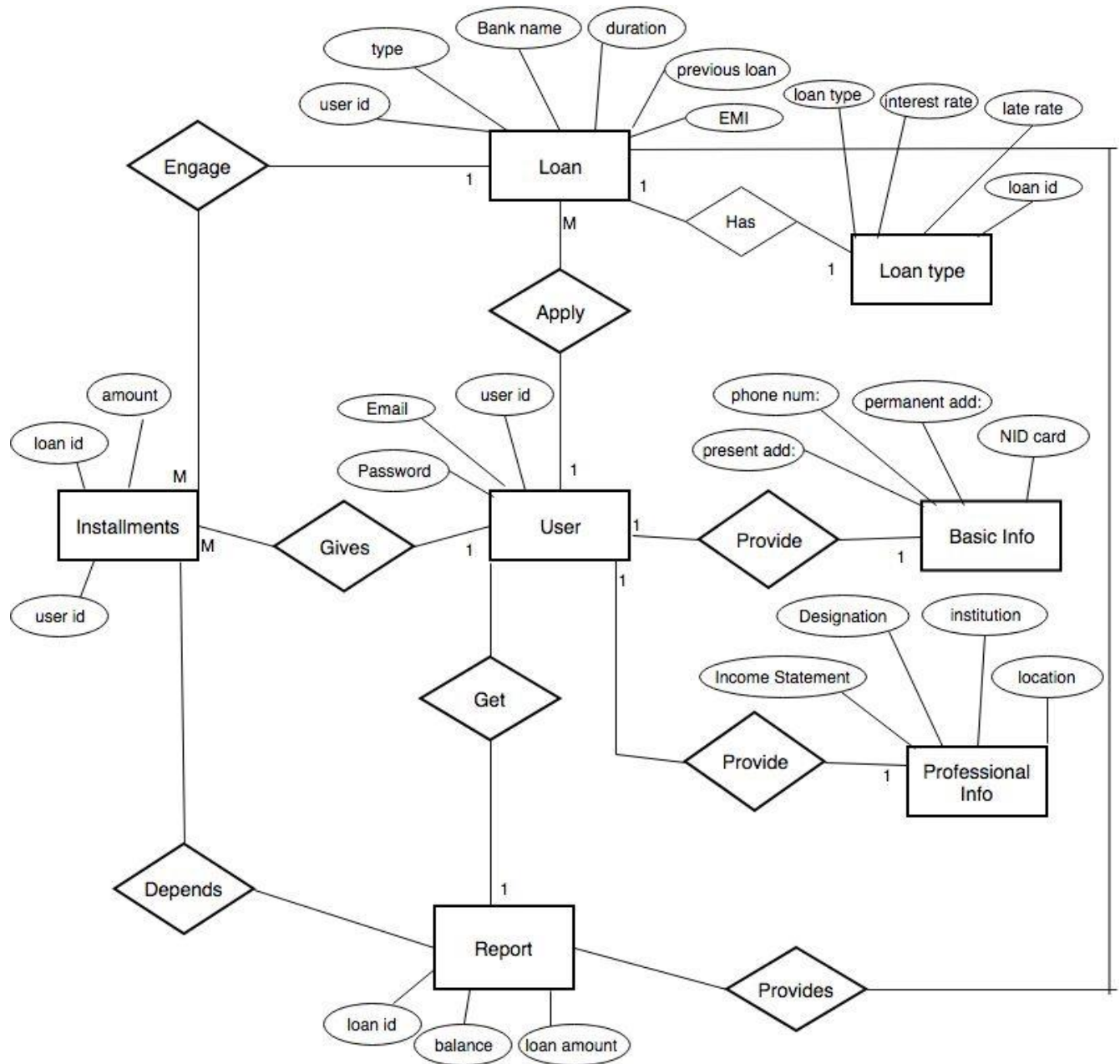
### 3.4.2 Manager Aspect



**Fig: 3.4.1 Manager Sequence Diagram**

## Chapter 4: System Design Specification

### 4.1 ER Diagram



**Fig: 4.1 ER Diagram**

## 4.2 Development Tools & Technology

### 4.2.1 Software Language or Framework:

The design of Loan Management System is heavily structured for maintainability, flexibility. For this reason it may seem complex when first approached. Data storage and representation, user interface presentation, and control are separated into different layers. The major categories follow:

**Page Layouts:** which are responsible for assembling HTML pages to display to user

**Page classes:** which receive requests from user's web browsers, delegate any required processing to various other classes, and call up the appropriate template to generate a response.

**Action classes:** which are used by the page classes to perform non-trivial processing of user request

**Model classes:** which implement PHP objects representing the systems various entities

**Support classes:** which provide core functionalities, miscellaneous common classes and functions etc. Again for the PHP codes there are some formations and standards we maintain. Those are given below:

- ❖ Wherever possible, global variables and functions outside of classes should be avoided.
- ❖ Symbolic constant, mapped to integers using the PHP define function, are preferred to numeric or string constants.
- ❖ Filenames should match class names.
- ❖ Class names use Camel Case, and instances use lower Camel Case.
- ❖ Whenever possible and logical, the variable name should match the class name.
- ❖ Class names and source code filenames should be descriptive and unique.

### 4.2.2 Development Tools and Technology

Micro Loan Management System is written in object-oriented PHP LARAVEL and data is stored in MySQL database. We are trying to build the system with updated technology for more stable and faster way.

- ❖ IDE: Sublime Text 3
- ❖ Database: MySQL
- ❖ Server Side: PHP (Laravel 5.6)
- ❖ Web-Server: XAMPP Server

## **Chapter 5: System Testing**

### **5.1 Testing Features**

Features to be tested: For this project we are going to test below features:

- ❖ Authentication
- ❖ Login
- ❖ Apply Loan
- ❖ Loan Approve
- ❖ Balance Enquiry

### **5.2 Testing Strategies**

#### **5.2.1 Test Approach**

Test plan is one of the standard documents that should be produced in most software project. If the project does not have any test plan this means that the software proves not qualify. This means it is not acceptable to the user since it will not satisfy their needs.

#### **5.2.2 Test category**

- ❖ Module Testing.
- ❖ System Testing.
- ❖ Integration Testing.

#### **5.2.3 Testing Environment (hardware/software requirement)**

- ❖ Key area in this system
- ❖ System
- ❖ Test data
- ❖ Server
- ❖ Operating system
- ❖ Browser
- ❖ Network
- ❖ Documentation requisite like user manual

## 5.3 Test Cases

**Table 5.3.1: Authentication**

|   |                                |
|---|--------------------------------|
| Test case ID: 01                          | Authentication                 |
| Module: Authentication                    | Test Designed: Repon           |
| Test Priority: (Low/Medium/High): Medium  | Test Date: 10.10.2018          |
| Test Title: Add new user.                 | Test Executed By: Repon        |
| Description: Test the system Authenticate | Test Executed Date: 10.10.2018 |

**Table 5.3.2: Login**

|   |                                |
|---|--------------------------------|
| Test case ID: 02                                | Module Name: Login             |
| Module: User Login                              | Test Designed: Repon           |
| Priority: (High/Low/Medium): High               | Test Date: 11.11.2018          |
| Title: Login valid email, password.             | Test Executed By: Repon        |
| Description: Test the system User sign in page. | Test Executed Date: 11.11.2018 |

**Table 5.3.3: Apply loan**

|   |                                |
|---|--------------------------------|
| Test case ID: 3   | Module Name: Apply loan        |
| Module: Apply for loan  | Test Designed: Repon           |
| Priority: (High/Low/Medium): High                                 | Test Date: 15.11.2018          |
| Title: Test Apply loan  | Test Executed By: Repon        |
| Description: user id, type ,duration, NID card and all valid data | Test Executed Date: 15.11.2018 |
| Status (successful/fail):   | successful                     |

**Table 5.3.4: Loan Approve**

|   |                                |
|---|--------------------------------|
| Test case ID: 04  | Module Name: Loan Approve      |
| Module: Apply for loan                                  | Test Designed: Repon           |
| Priority: (High/Low/Medium): Medium                     | Test Date: 15.11.2018          |
| Title: Test loan approve                                | Test Executed By: Repon        |
| Description: user id, NID card and all valid data check | Test Executed Date: 15.11.2018 |
| Status (successful/fail):                               | successful                     |

**Table 5.3.5: System check**

|                           |   |
|---------------------------|---|
| Test Case: 5              | System check  |
| Test step:                | <ul style="list-style-type: none"> <li>❖ Enable interface logging</li> <li>❖ Run a correct or incorrect authentication</li> <li>❖ Chose the user account</li> <li>❖ Enter password</li> </ul> |
| Test data:                | Username:admin@gmail.com<br>Password:12345  |
| Expected result:          | User should able to login   |
| Actual result:            | User successfully logged in   |
| Status (successful/fail): | successful  |

## Chapter 6: User Manual

### 6.1 User

User need to insert data for proper authentication and user need to insert data for loan. All Type Of user must authenticate to use this system.

#### 6.1.1 Apply Loan Page

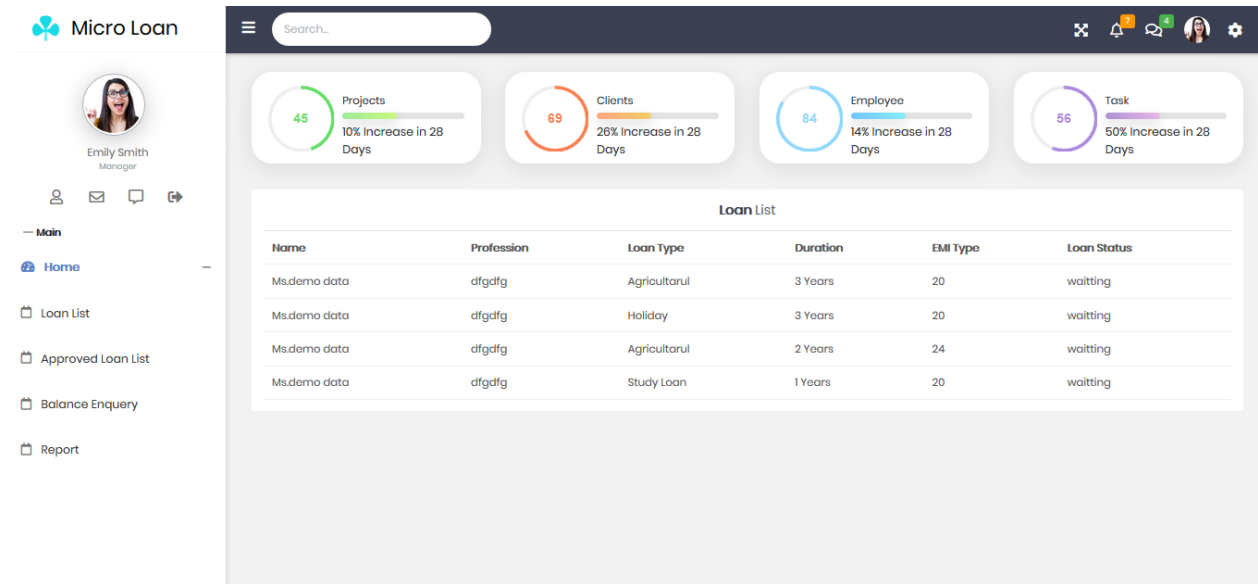
This is applying loan page. User will apply for loan with their valid user name and password. User can select loan type, duration and select EMI number.

The screenshot displays the 'Apply Loan Page' of a web application. The interface features a dark blue header with the 'Micro loan' logo and a search bar. A left sidebar shows a user profile for 'Emily Smith, Manager' and a menu with 'Home', 'Loan Apply', 'My Applications', 'Rules And Regulation', and 'Terms And Condition'. The main content area is titled 'Who are you ?' and contains form fields for 'Select Loan Type', 'Duration in Years', and 'Select EMI Number'. Below these are two toggle switches: 'Have You any Loan Continuing?' (set to No) and 'Have You Use Credits Card?' (set to No). A section titled 'How to contact you ?' includes a 'Bank Name' dropdown menu and a 'Maintain The Account for' text input field with '2 years' entered. A dark blue 'SAVE !' button is at the bottom.

**Fig 6.1.1: Apply Loan Page**

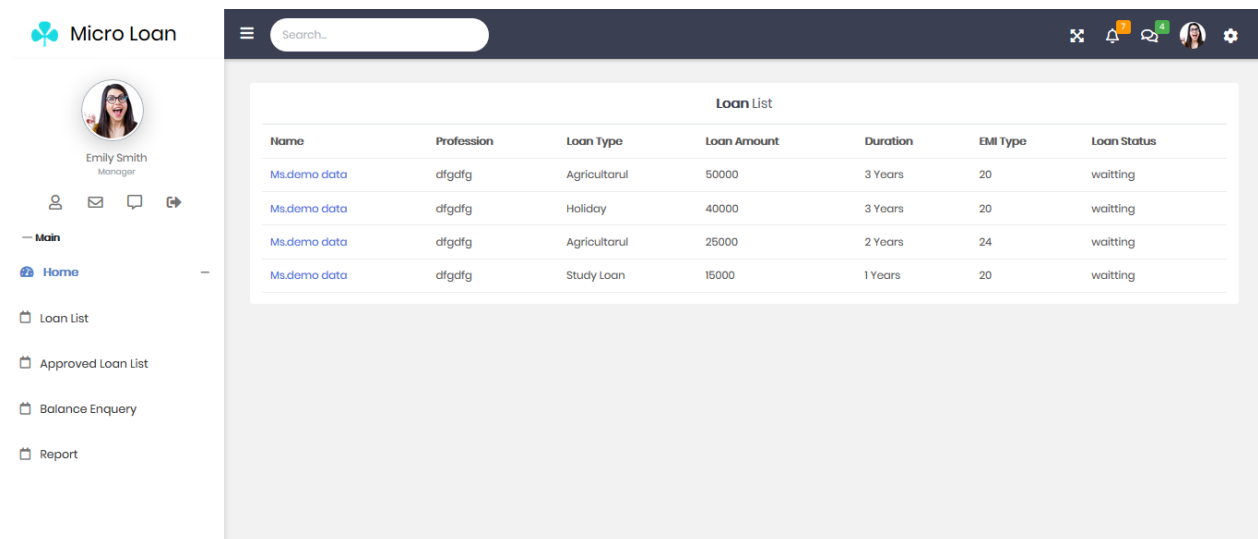
## 6.1.2 Loan Status

User and manager can view loan status such as name, loan type, duration, EMI type and loan status.



**Fig 6.1.2: Loan Status**

## 6.1.3 User Loan List



**Fig 6.1.3: User Loan List**

## 6.1.4 Loan Details

Administrator and Manager can see user loan details

The screenshot displays the 'Micro Loan' application interface. On the left, a sidebar shows the user profile of Emily Smith, Manager, and a menu with options: Home, Loan List, Approved Loan List, Balance Enquiry, and Report. The main content area is titled 'Ms.demo data' and shows the 'User Id: r16SSLfAXhSMeQa'. Below this, there is a 'Loan Details' table and a 'Professional Info' section.

| Loan Details    |              |
|-----------------|--------------|
| Loan Type       | Agricultural |
| Loan Amount     | 50000        |
| Duration        | 3 Years      |
| Emi Type        | 20           |
| Previous Loan   | yes          |
| Use Credit Card | yes          |
| Use Bank Name   | City Bank    |
| Use Bank Emom   | 1            |

Professional Info

Designation:dfgdfg.dfgfh  
Institute: fghgij.dfgdfg

LOAN APPROVE

Fig 6.1.4: Loan Details

## 6.1.5 Add EMI

The screenshot displays the 'Micro Loan' application interface. On the left, a sidebar shows the user profile of Emily Smith, Manager, and a menu with options: Home, Loan List, Approved Loan List, Balance Enquiry, and Report. The main content area is titled 'Add Installment' and contains a form with the following fields:

Name: Ms.demo Ms.demo

User Track Id: r16SSLfAXhSMeQa

Amount: 2800

ADD INSTALLMENT

Fig 6.1.5: Add EMI

## 6.2 Manager

When user apply for loan and his all submitted documents are valid then Administrator and Manager Can approved loan.

### 6.2.1 Add Manager

The screenshot shows the 'Manager Register' form within the 'Micro Loan' application. The left sidebar displays the user profile for Emily Smith, Manager, with navigation links for Home, Loan List, and Manager List. The main content area features a form with the following fields: Name, E-Mail Address, Password, and Confirm Password. A 'REGISTER' button is located at the bottom of the form. The top navigation bar includes a search bar and various utility icons.

**Fig 6.2.1: Add Manager**

### 6.2.2 Manager List

The screenshot shows the 'Manager List' table within the 'Micro Loan' application. The left sidebar is identical to the previous figure. The main content area displays a table with the following data:

| # | Name  | Email           | Designation |
|---|-------|-----------------|-------------|
| 1 | robin | robin@gmail.com | Manager     |

Below the table, there is a small bar chart showing a trend of four bars with increasing values. The top navigation bar and sidebar remain consistent with the previous figure.

**Fig 6.2.2: Manager List**

### 6.2.3 Loan Approved

When users submit his/her loan application then administrator can view all document and approve the loan.

The screenshot displays the 'Micro Loan' application interface. On the left, a sidebar shows the user profile of Emily Smith, Manager, and a navigation menu with options: Home, Loan List, Approved Loan List, Balance Enquiry, and Report. The main content area is divided into several sections:

- User Information:** A dark header box displays 'Ms.demo data' and 'User Id: rl6SSLfAXhSMeQa'.
- About:** A section containing user details: Full Name (Ms.demo data), Mobile (se453454), National Id (5646546), and Address (9yij).
- Professional Info:** A section containing Designation (dfgdfg, dfghfh) and Institute (fghgij, dfgdfg).
- Loan Details:** A table listing loan information:

| Loan Details    |              |
|-----------------|--------------|
| Loan Type       | Agricultural |
| Loan Amount     | 50000        |
| Duration        | 3 Years      |
| Emi Type        | 20           |
| Previous Loan   | yes          |
| Use Credit Card | yes          |
| Use Bank Name   | City Bank    |
| Use Bank From   | 1            |
- Loan Approveness:** A section for approving the loan, featuring a 'Comment' text area, a 'Status' dropdown menu set to 'Approved', and a 'SAVE' button.

**Fig 6.2.3: Loan Approved**

## **Chapter 7: Project Summary**

### **7.1 Critical Evolution**

“Micro Loan Management System” is a web based project. The technologies are use here that most recently release. Resources are limited and also errors are not understandable for developers. On the other hand both developers are placed separated. These types of project are complex to handle.

### **7.2 Future Scope**

“Micro Loan Management System” is releases are first version on it. On time going it should be more fetcher able. In Future more fetcher also adding like below

- ❖ Apply process also be modify for user.
- ❖ On future we try to fix it for a certain domain.
- ❖ Code IDE Integration
- ❖ Completely automated loan management system.
- ❖ API based system.
- ❖ More Secure system.

## **Chapter 8: Conclusion**

The web-based system (Micro Loan management system), it is subjected to modification on its features as time to time This system will make progress on loan management, help to the management and users. A user uses the system, save his important time, hassle-free life, and other advantages. Organization also would have can benefit with this system. As a result of the authentication feature of the system, the system can guarantee that the right users would have access to the system provide exact benefit and take their assessment.

## **Chapter 9: References**

- [1]. <https://www.slideshare.net/IshitaGupta1/loan-management-system> (25.09.2018)**
- [2]. <https://en.wikipedia.org/wiki/Loan> (30.09.2018)**
- [3]. [https://onlendlendingsoftware.com/?gclid=EAIaIQobChMI74OIva-92wIV2CMrCh2kvwSDEAAYAiAAEgIFaPD\\_BwE](https://onlendlendingsoftware.com/?gclid=EAIaIQobChMI74OIva-92wIV2CMrCh2kvwSDEAAYAiAAEgIFaPD_BwE) (30.09.2018)**
- [4]. Draw.io, 'Design system diagram', [Online]. Available: <https://www.draw.io/> (10.11.2018)**
- [5]. <https://www.reportbd.com/articles/1250/1/Main-Activities-of-Grameen-Bank-Grameen-Bank-Credit-Loan-Projects-Part-5/Page1.html> (11.11.2018)**