Software Requirements Specification

For Minor Project

"Online Banking System"

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6 August 2018 Session – 2018-19

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1. Introduction

1.1 Purpose

The Online Banking is all about knowing our customer need and provide them with the right service at the right time through right channel 24*7 day a week. Being “electronic”, it not only provides its customers with faster and better facilities, it even reduces the manual overhead of accounts maintenance. Online banking, also known as internet banking, is an electronic payment system that enables customers of a bank or other financial institution to conduct a range of financial transactions through the financial institution's website. It is a part of core banking system. The online banking system will typically connect to or be part of the core banking system operated by a bank and is in contrast to branch banking which was the traditional way customers accessed banking services

1.2 Feasibility

It determines that if the system can be implemented using the latest technology. In this website we are using HTML, CSS as the front-end and in the backend development we are using JavaScript and java, for the database we are using MYSQL. We were working officially first time on this technology but it didn’t take much effort and time to get used to it.

In our projects we have used latest technologies which are available as open source so we have not invested in any software, which depicts our project is pocket friendly.

For the user this project can easily be made available online without much consideration of the hardware and software. The only required thing at the applicant’s side is the Internet connection and a web browser, which are a no difficult issue these days.

2. Functional /Nonfunctional Requirements

2.1 Functional Requirements

- The user must have unique login id and password for login.

- User profile will be created at the time of registration.
- We have simplified and made convenient for the users to open new account through this online platform.
- The website which we have developed will be working for twenty-four hours a day without any interruptions.
- The website is not requesting for the any cookies
- The website should have a user-familiar interface so that the system would not pose an additional workload to the users.

2.2 Nonfunctional Requirements

- The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.
- The Server on which this project is running should be secure.
- The Server should not get crashed while handling the request of many users.
- The Database have sensitive data of the user so it must be secure.
- The Server should be capable enough to process multiple request.
- The Database should store data at multiple locations on different hard-disk so if any hard-disk gets crash it should not lose its data.

2.3 Technical Requirements (Hardware /Software)

Technical Requirements are the requirements which are needed to run the application in terms of hardware and software. The technical requirement for the system is as follows:

Hardware Requirement

- Computer System(Java enabled)

- RAM – 1GB
- ROM – 128 GB
- Processor – Intel Core-i3

Software Requirement

- Windows 7,8,10
- Java Development Kit
- MySQL
- Internet Browser (Chrome, Firefox, Internet Explorer, etc.)
- Apache Tomcat Server

3. System Features

The entire project mainly consist of three module

- View Module
- Controller Module
- Database Module

3.1 VIEW MODULES

- JSP Files
- HTML Files
- CSS Files

Files in this modules are used for the front end/ the view that appears to the user/client.

3.2 CONTROLLER MODULES

- Servlets file
- Java Files

Files in this module are used to control the flow of data and the request come from any front end page and database connectivity files.

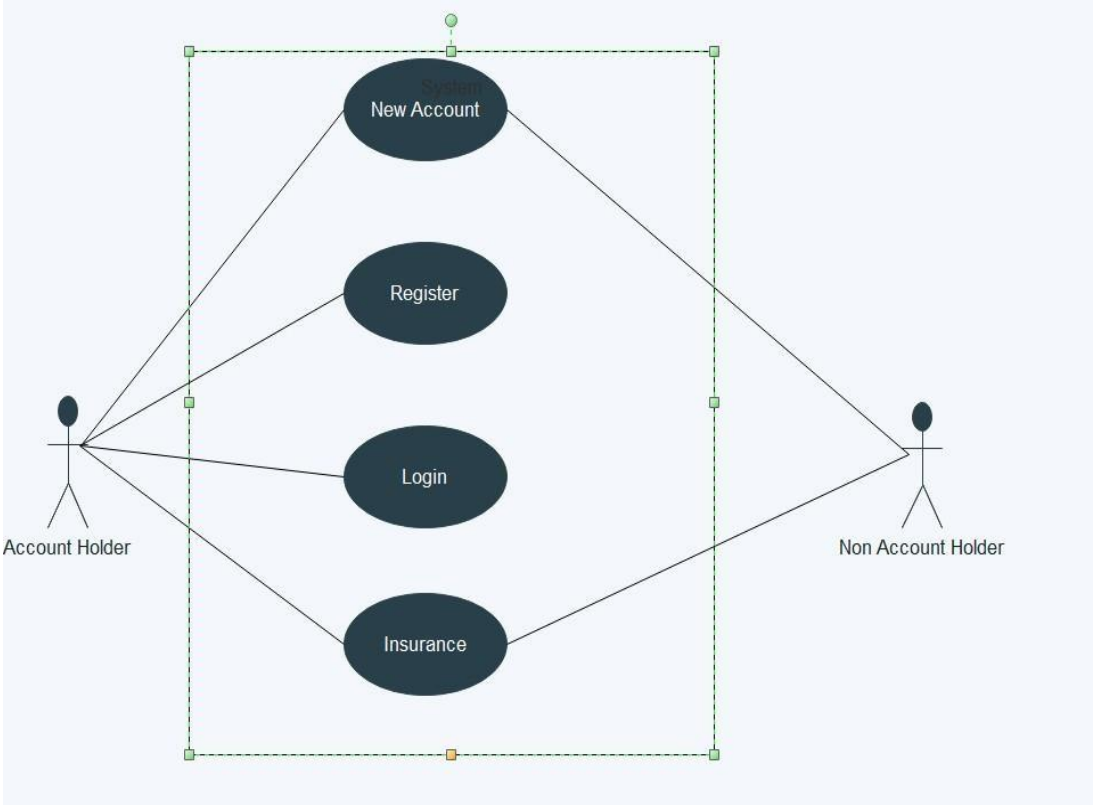
3.3 DATABASE MODULE

- Database Files

Files in these module are database files.ie files on which data is stored by database.

4. Analysis Diagrams

4.1 Use Case Diagram



4.2 Sequence Diagram

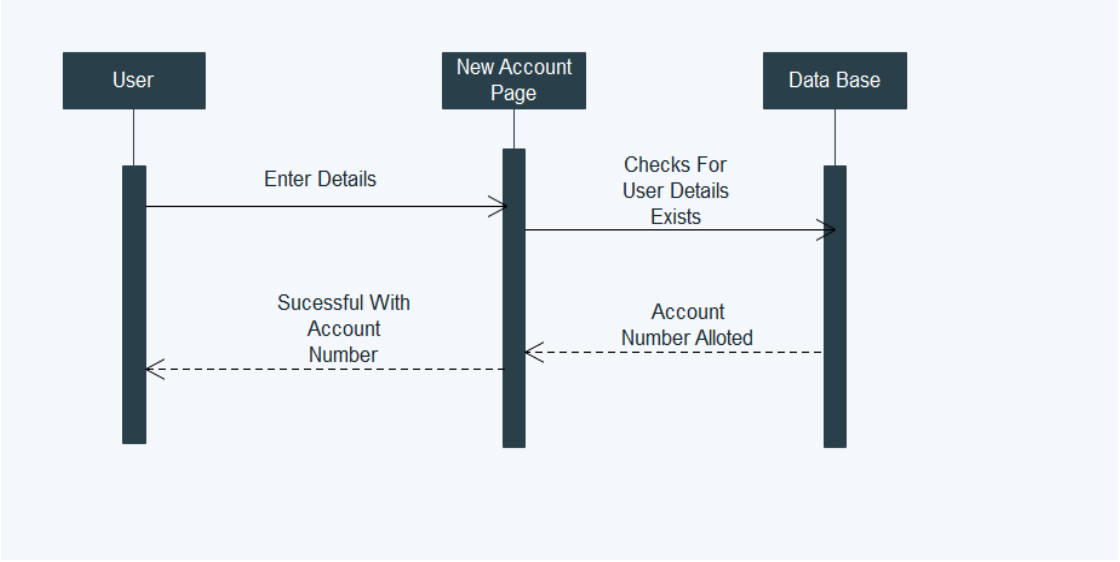


Figure : New Account

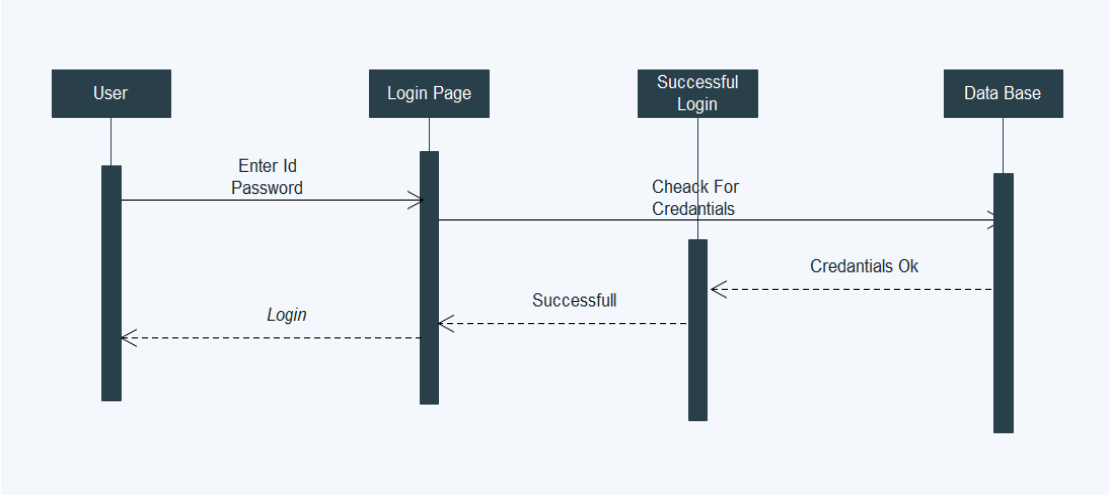


Figure : Login Page

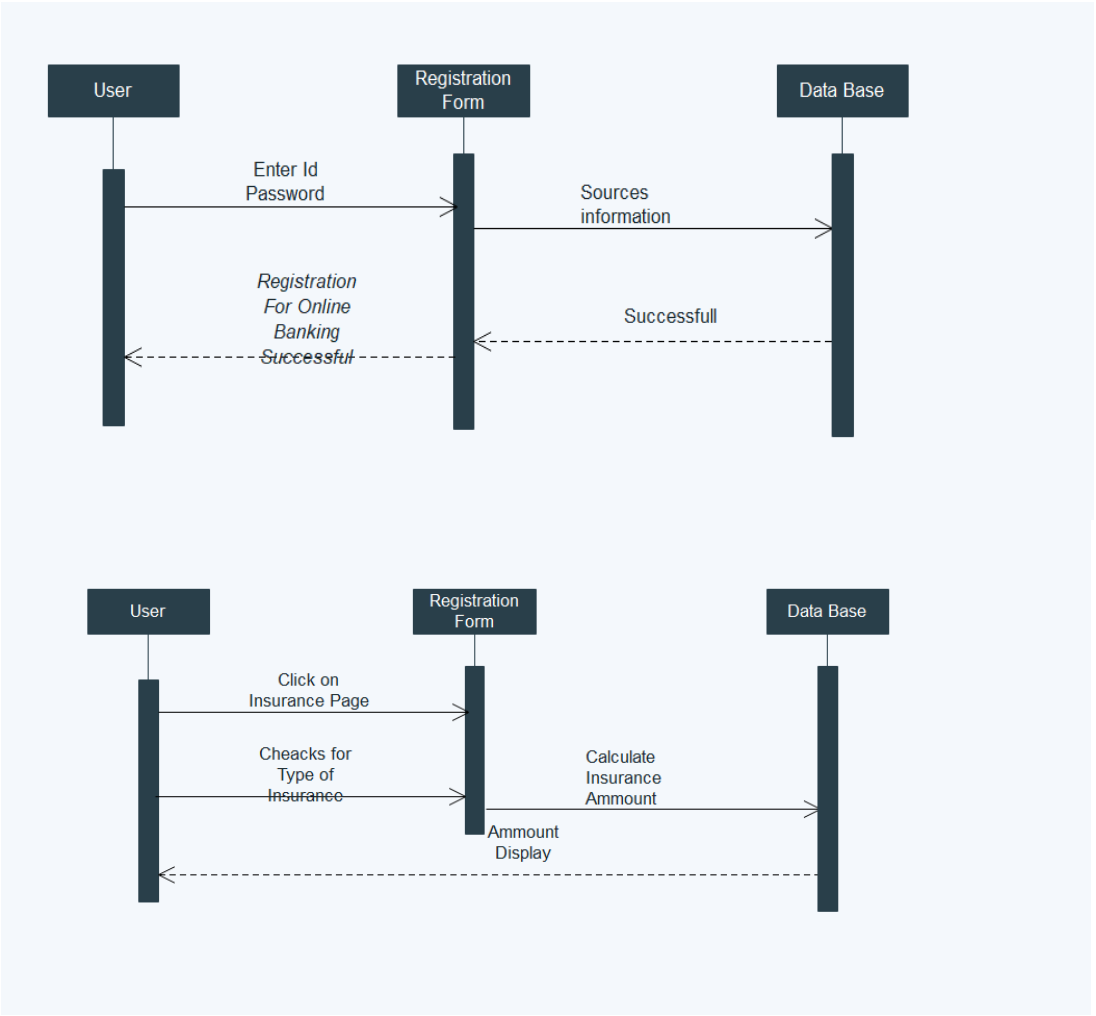


Figure : Insurance

4.3 Component diagram

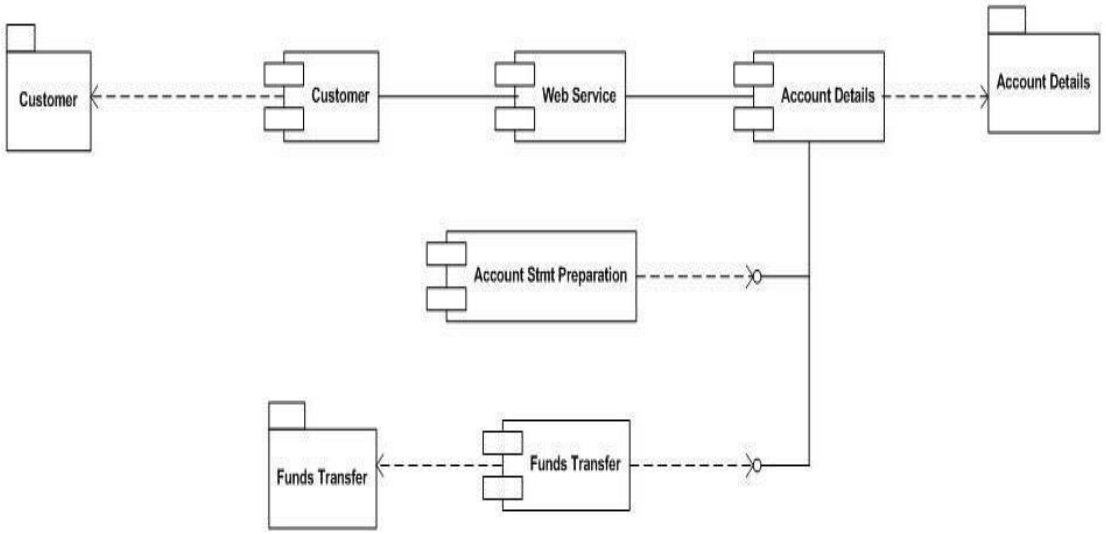


Figure : Component diagram

4.4 Data Flow Diagram

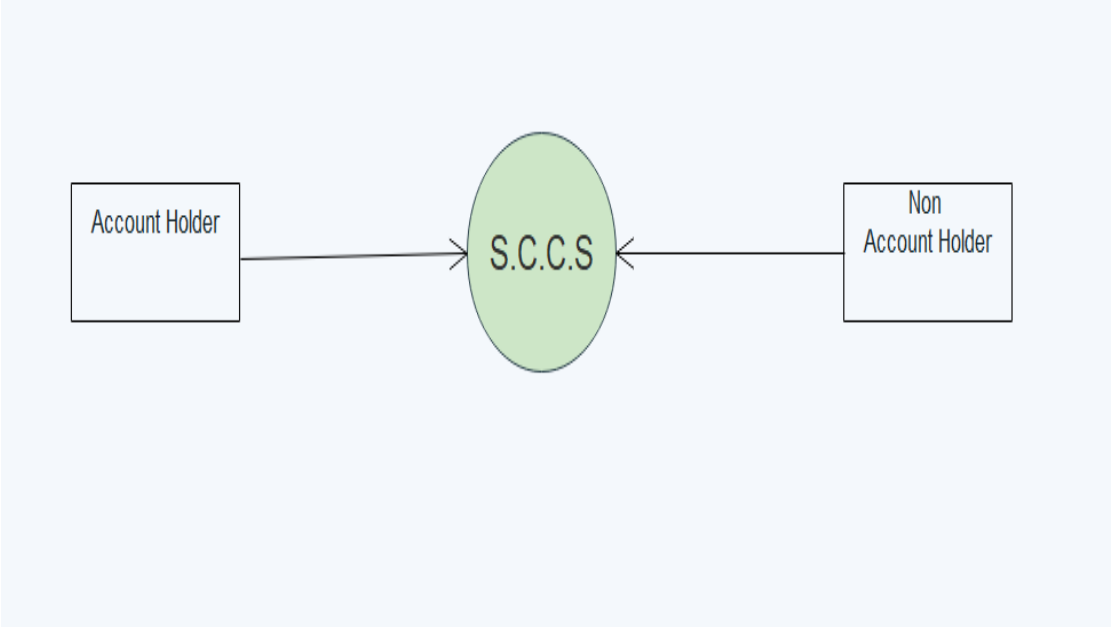


Figure: 0 Level DFD

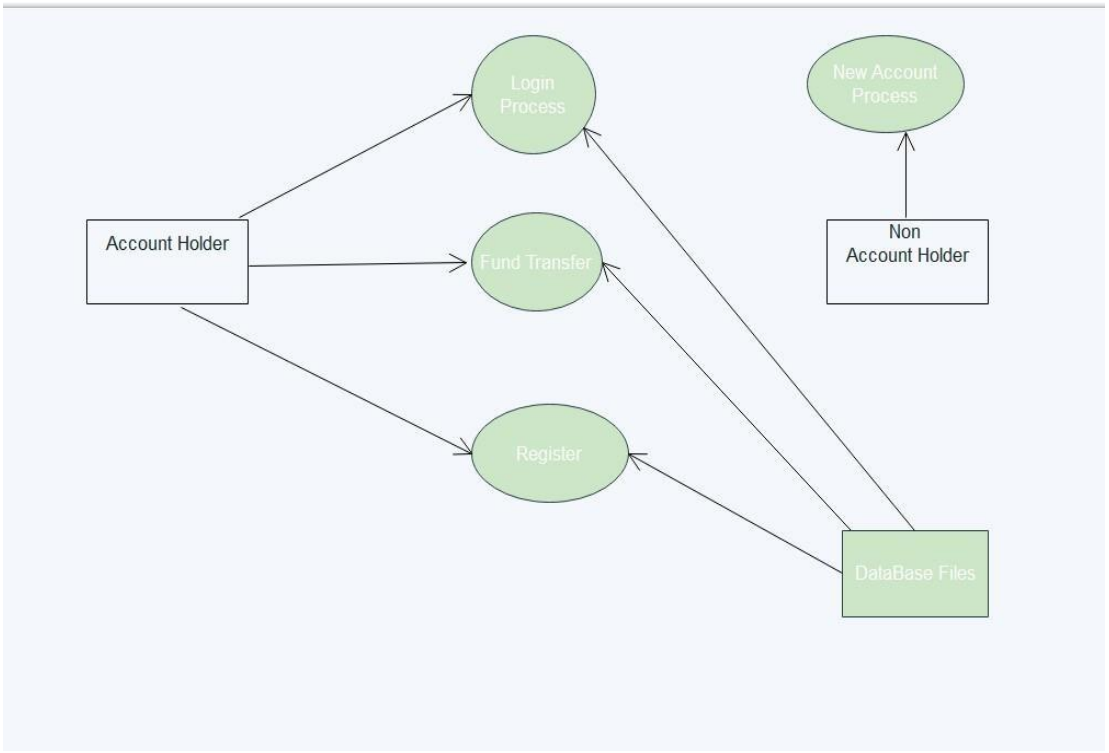


Figure : 1 Level DFD

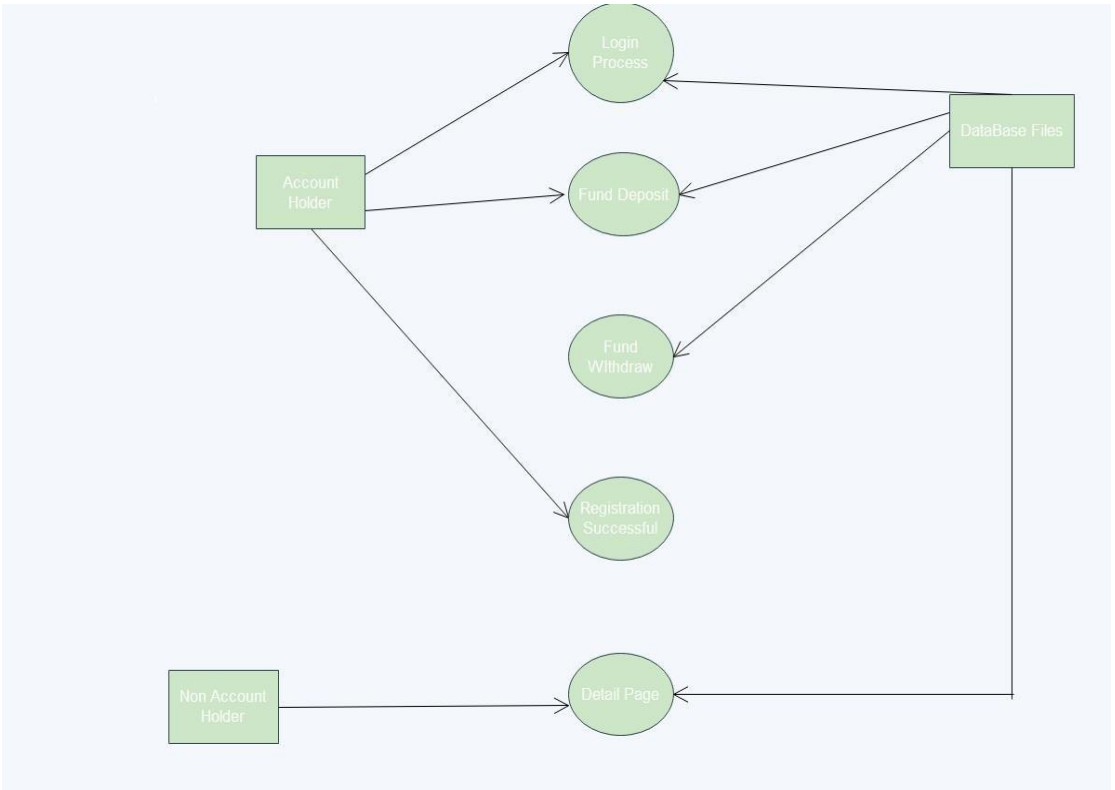
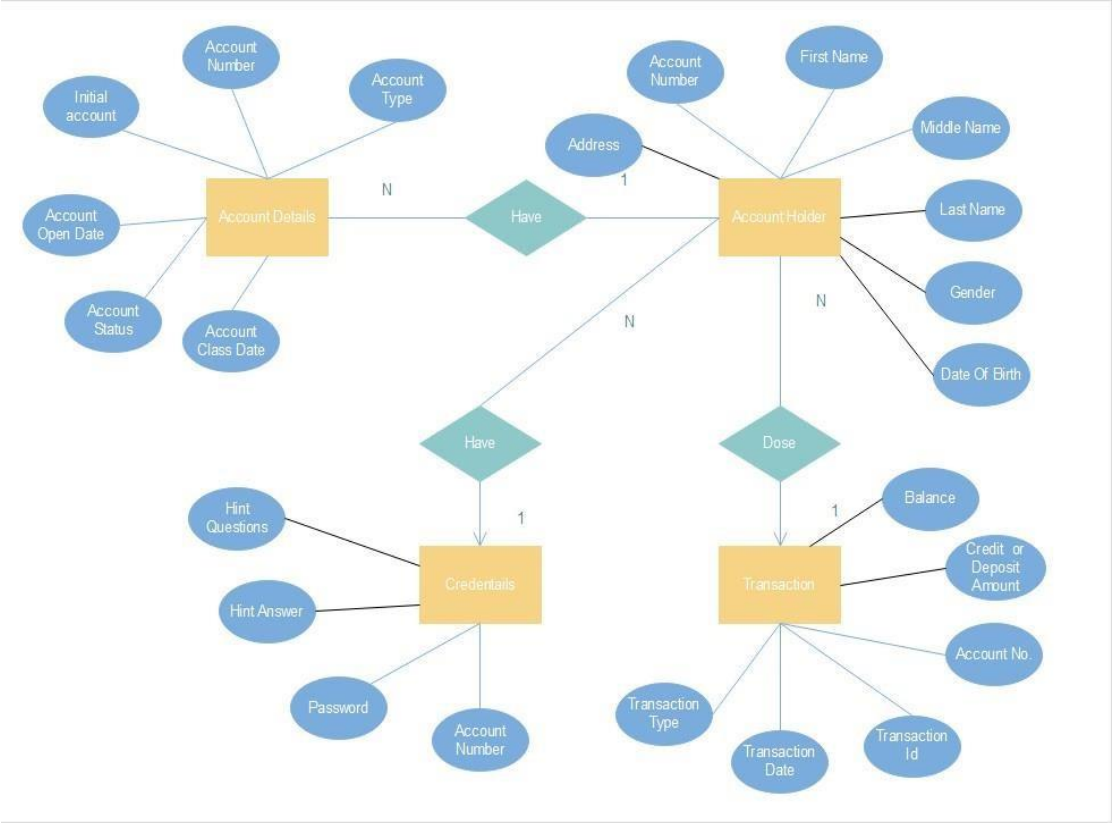


Figure : 2 Level DFD

4.5 ER Diagram



4.6 Activity Diagram

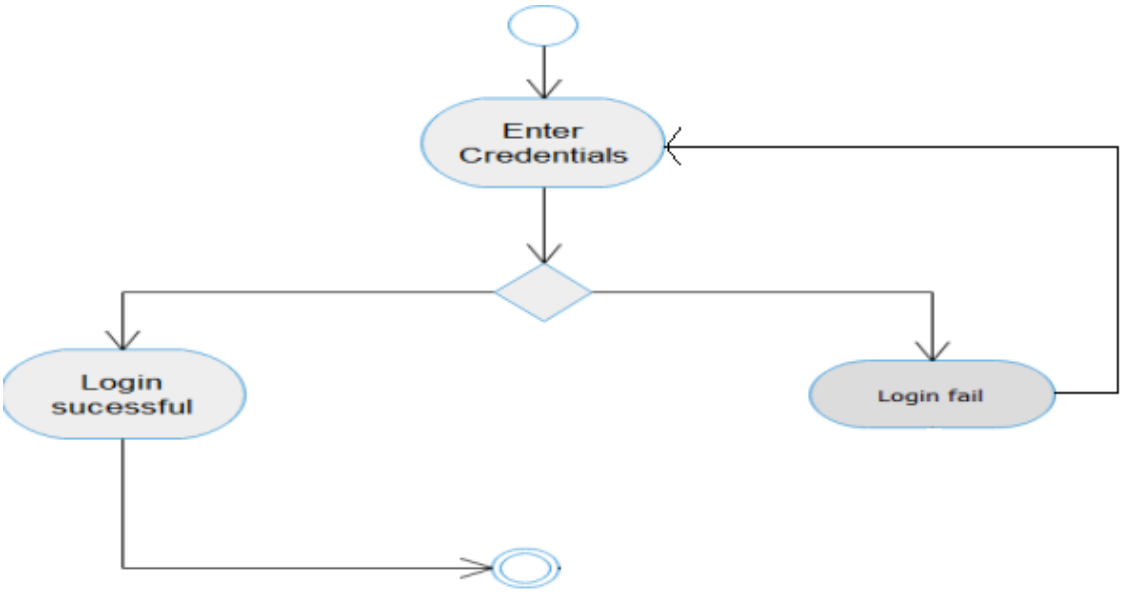


Figure : Login Page

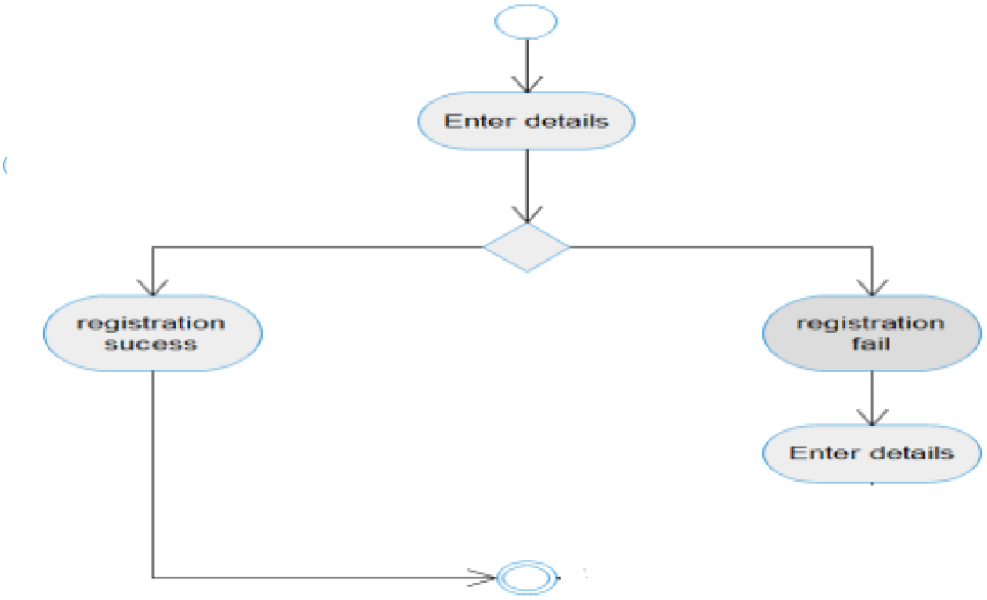


Figure: Register page

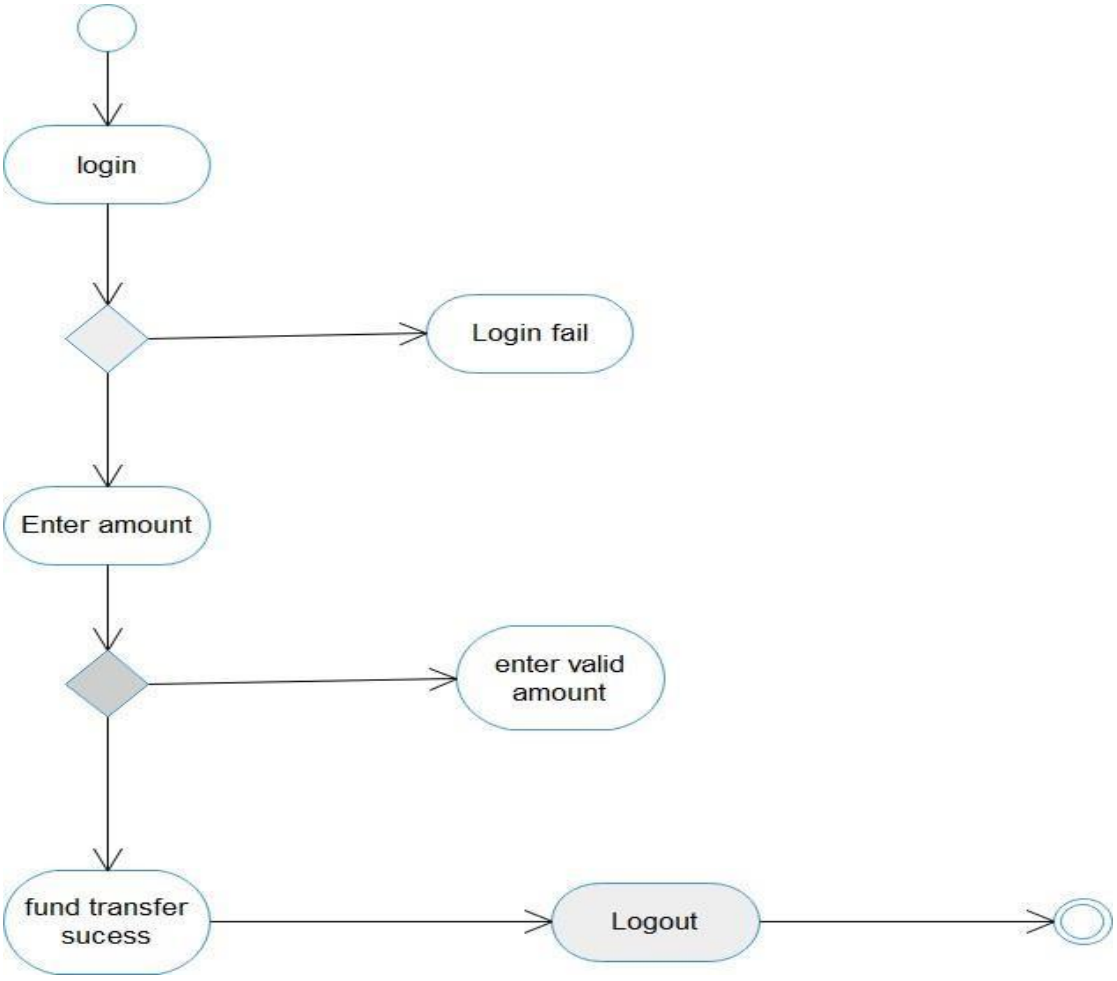
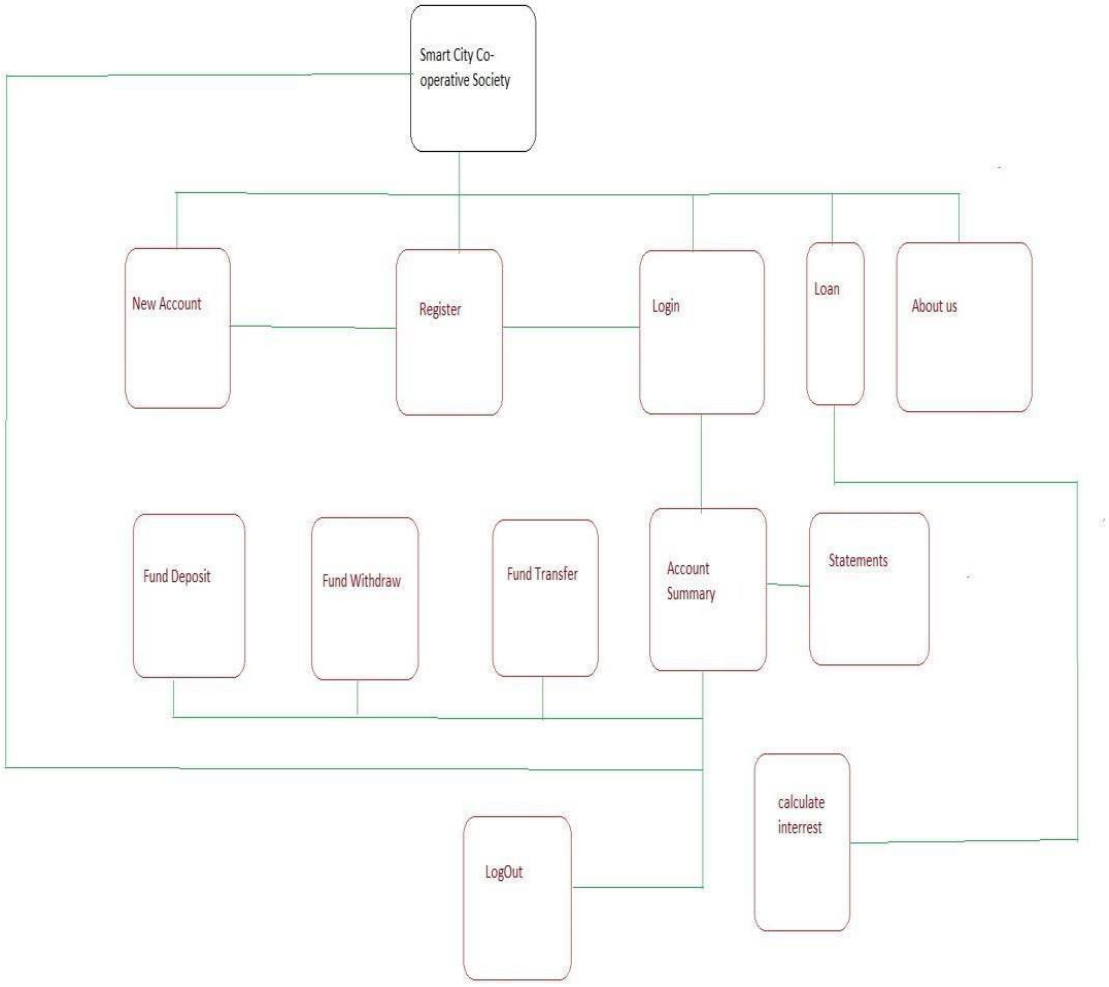


Figure: Fund Transfer

4.7 Architecture Diagram



5. Glossary

ANDROID: - Android is mobile operating system developed by Google.

CASCADING: -It is used so that more than one style sheet could apply to a particular piece of html.

CLIENT MODULE: - Separates units of software at client side.

DEBUGGING: - Identify and remove the errors from the hardware and software.

MARKUP LANGUAGE: - It is the language of the computer used for the definition of elements using tags.

NETWORK BACKUP: - It is the process of copying and backing up all nodes of computer system.

SERVER MODULE: - Separate unit of software at server side.

STYLE SHEETS: - The elements which we are customizing in html pages.

6. References

The following websites were referred during the analysis and execution phase of the project:

- www.geeksforgeeks.com
- www.w3schools.com .www.bootstrap.com
- www.tutorialspoint.com
- Udacity you tube channel

7. Guide's Comments