



# **An Undergraduate Internship Report on IT Asset Management System for The City Bank Limited**

Submitted By

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in Computer Science

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# Acknowledgement

First of all, I would like to thank Almighty Allah for giving me the ability to work hard. It is my privilege that I had the opportunity to do an internship at The City Bank Limited. I would like to thank all the people whom I carry out my internship.

I express my deep gratefulness to my supervisor Md. Fahad Monir Lecturer, Department of Computer Science and Engineering, Independent University, Bangladesh, for his invaluable instructions, continuous guidance, constructive criticisms and thoughtful advice during pursuing this internship and preparation of this report.

I also express my deep gratefulness to Mr. Saifur Rahman Shawkat (Head of Information Technology, The City Bank Limited) and Md. Rejuan Masud (Head of Enterprise Architecture Information Technology, The City Bank Limited), Also, I express my deep gratefulness to all employees of The City Bank Limited for cooperated to help me to complete this internship report.

I also would like to thank all my family members and my friends for their eternal support is given to me.

Samia Fariba Rabbi

Dhaka, Bangladesh

# Letter of Transmittal

21th April 2022

Md. Fahad Monir

Senior Lecturer,

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Subject: Submission of Internship Report

Honorable Sir,

This is to inform you with due honor and respect that I am Samia Fariba Rabbi (ID: 1710717) from the Internship Course of Spring 2022 in section 10, I would like to submit my internship report on It Asset Management system for The City Bank It Service. I would like to express my gratitude to you and thank you for allowing me to work on this topic under your proper supervision. This report has been prepared with the utmost attention and concentration. I have done my best to give material that is both valid and trustworthy, in order to make the findings as accurate as possible. Due to a variety of contains, there may be some mistakes, which I respectfully request for your kind consideration.

I would be highly grateful if you are kind enough to receive this report and provide your valuable judgment. Also, I will be happy to answer any kind of inquiry identified with this report, if vital.

Sincerely yours,

Samia Fariba Rabbi

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# Abstract

The report is broadly categorized into nine different chapters. At first, there is an introduction, objectives of the study, scope of the report, background of the work. Chapter two focuses on Literature Review, how the work is related to my undergraduate course, and some related works. Chapter three focuses on project Management & Financing. In this chapter I described my activity-wise time distribution, Gantt chart, Resource Allocation and Estimated Costing. Chapter four focused on Methodology. Chapter five was the body of the report, I describe my work description, Requirement Analysis, System Analysis. In system analysis I described about six element, problem solution, and system design. In chapter six I wrote future results and some analysis. Chapter seven was focused on how my work is sustainable, social, and environmental effects and ethical issues. In chapter eight I described what kind of problem I faced during internship and some solution of those problems. In chapter nine I described what my future work could be and the conclusion of the report.

In this internship report network system and It Assets system is studied. I studied so many papers on software and network-related topics and try to understand those topics. Hopefully, this internship opportunity will help me with my future career step.

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# 1. Introduction

An internship enables a student to gain first-hand exposure to working in the real world. It also allows students to harness the skill and theoretical knowledge they learned in university. They can acquire endless amounts of education in their life, however, that knowledge does not always translate to the working life. After returning from the internship, students get the skills and confidence that they have developed during the internship which helps to achieve work experience and, prepare them for their future career ahead as an outcome. I was granted the opportunity to work in The City Bank Limited to fulfill my requirements for the internship. I integrated whatever I have learned and put it to use. The environment in the office is always filled with friendliness, work-driven, and passion to achieve a better outcome in the work. I have mentioned my personal views about the company in detail in the report. The City Bank Limited has very hard Restrictions and ethical standards to maintain in the office. I get to understand their way of working, and eventually, the corporate culture in general.

## 1.1 Background of the work

I used to work with The Enterprise Architecture Team of The City Bank Limited . The name of the project in my project is IT Asset Management System For The City Bank. These days, a significant percentage of companies are doing more with less – requiring staff to take on a higher volume of work, and without adding headcount. The urgent matters and assorted fires that occur over a day or week push asset management ever further down the list of priorities. The purpose of an IT asset management system, is to help companies keep track of fixed assets like IT equipment, industrial or manufacturing equipment and tools, vehicles, and other investments related to an organization's ability to run operations and earn profit. An IT asset is a piece of software or hardware within an information technology

environment. So basically this project is about Tracking of IT assets within an IT asset management system to the operational or financial success of an enterprise.

## 1.2 Objectives

The objectives of the internship were as follows:

- ❖ To apply theoretical knowledge in the practical field.
- ❖ To observe how the engineers, monitor the whole Computer Network System.
- ❖ To learn how the engineers, ensure company's computer networks are running as smoothly as possible.
- ❖ To realize the information technology system of The City Bank Limited.
- ❖ To gain some knowledge in system protection and maintenance of wireless communications.
- ❖ To gain some knowledge on wireless Infrastructure and want to know about their basic operation.
- ❖ To find out the success and failure of The City Bank Limited.

## 1.3 Scopes

This module explains what an asset management system is and how it impacts the whole organization. It shows the scope, structure and main elements of a system and how this provides for the coordination, control and continual improvement of assets in line with the organizational plan. This includes highlighting the key factors and people needed for effective implementation across different environments. The benefits of effectively management of IT assets for an organization are: Assets visibility & control , Improved asset utilization , Audit requirement compliance , Regulatory requirement compliance ,



Reduced costs of software and hardware , Support for changes and projects of the organization , Alignment of asset costs to services , Give configuration data for service management.

## 2. Literature Review

A literature review could be a learned paper that presents the present information together with substantive findings moreover as theoretical and method contributions to a specific topic. There is a need for network systems for use in multi-service, multi-organizational team training. A literature search was performed to identify new networking and communication technologies, determine the state-of-the-art in this arena, and provide guidance for the future maximization of operational assets

### 2.1 Relationship with Undergraduate studies

This project is related to my undergraduate studies as I am from the Computer Science and Engineering Department. I have learned a lot of things in my undergraduate studies which help me to do this Internship project. The Department of Computer Science and Engineering at Independent University in Bangladesh coordinated the courses and schedule in an exceptionally productive manner, which helped me in finishing my project successfully. University classes gave information and abilities that supported the advancement of the "ITAMS" project. On the off chance that the courses had not been finished before to chip away at this venture, it would have been seriously difficult.

A portion of the straightforwardly related courses are:

### **System Analysis and Design:**

This course examines the tools and techniques used to design and analyze information systems. In this course I have learned topics like project management, system and models, and was introduced with the tools for determining system requirements and designing the data-flow diagrams and use case modeling and front-end and back-ends, as The City Bank required me to do the research and working about their existing IT Asset so this course helped me to do so.

### **Web Application and Internet:**

After completing this course, I had the knowledge of HTML, CSS, JavaScript, Spring Boot ,Scene Builder ,Query, Php, MySQL and some back-end languages which helped me to working in my internship organization, so it had the involvement of the languages I have learned from this course, so it helped me to implement that knowledge in the report. This course provides a complete overview of web technologies and how to use them.

### **JavaScript:**

JavaScript was initially created to “make web pages alive”. They can be written right in a web page’s HTML and run automatically as the page loads. The representation and storage of data in elementary data structures such as arrays, classes and object type topics are covered in this course. Since "It Asset System " contains various complex information structures, the abilities taught in this course are very valuable and it was significantly simpler to manage them also.

### **Database Management:**

This course examines the tools and techniques how the database works. After completing this course, I had the knowledge about database. In this course I learn about software development, how the software works. This course provides a complete overview of management system and how to use them in our practical life.

## 2.2 Related Works

A network system is mandatory for every organization, varsity, or even for home. As a network engineer, we have responsibility for setting up, developing, and maintaining computer networks within an organization or between organizations. I will offer support to users, who can be staff, clients, customers, and suppliers, and troubleshoot any problems that arise. So, we have so many related works in this networking field.

Here is a list of position a network specialist can apply:

- ❖ Asset Management Services & Software.
- ❖ Cloud Networking Architect.
- ❖ Networking Research and Development Specialist.
- ❖ Wireless Networking QA Engineer.
- ❖ Wireless Infrastructure and Mobility Specialist.
- ❖ Mobility Solutions Architect.
- ❖ VoIP Engineer.
- ❖ Telecom Project Manager
- ❖ Data Center Networking Specialist
- ❖ Asset inventory and record

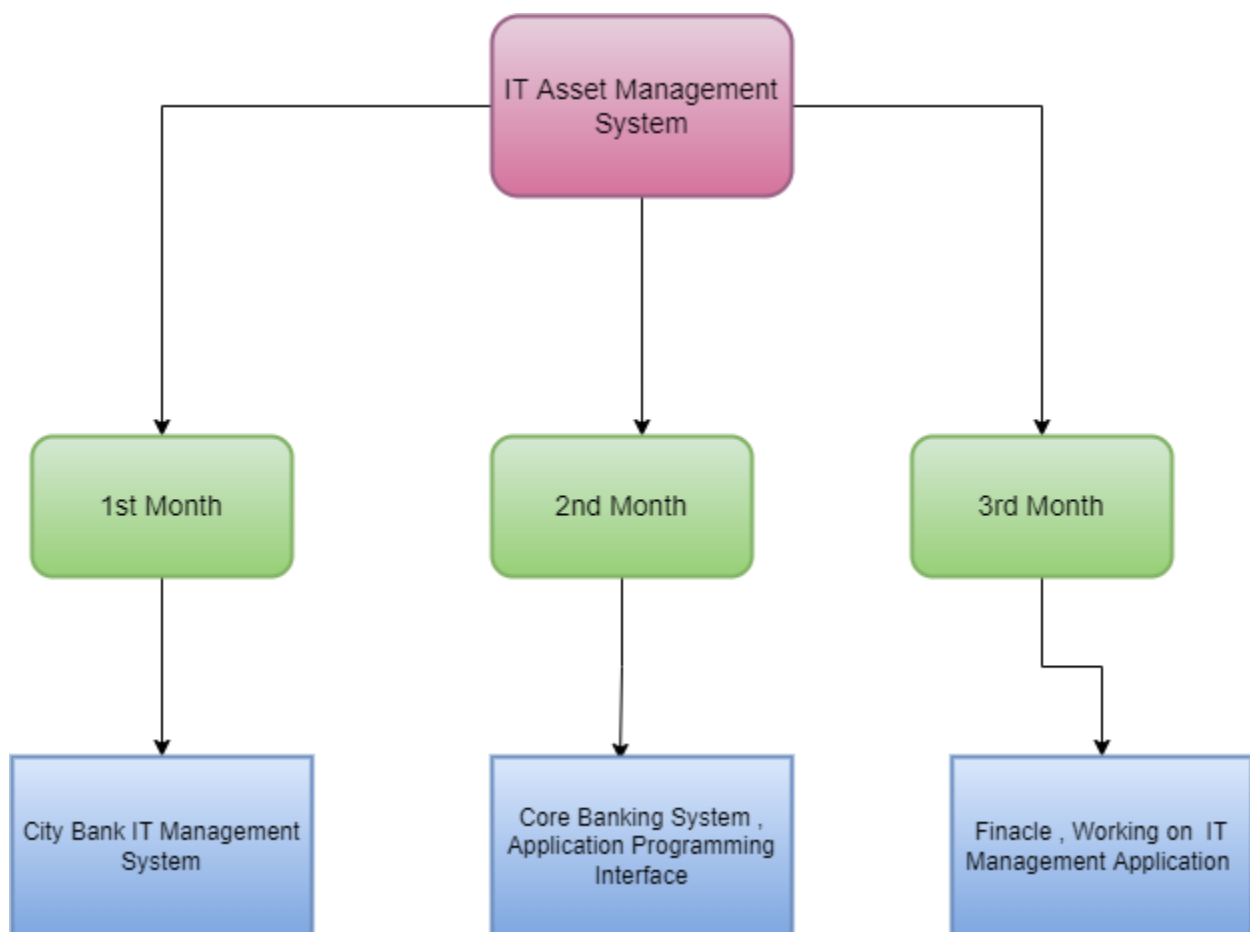
So here we can see that we have so many opportunities in this sector. If any person is good at this things, he/she won't have a problem getting good work.

## 3. Project Management & Financing

### 3.1 Work Breakdown Structure

Work breakdown structure or WBS in project management is a method for getting a complex, multi-step project done. It's a way to divide and conquer large projects so we can get things done faster and more efficiently.

The goal of a WBS is to make a large project more manageable. Breaking it down into smaller chunks means work can be done simultaneously by different team members, leading to better team productivity and easier project management.



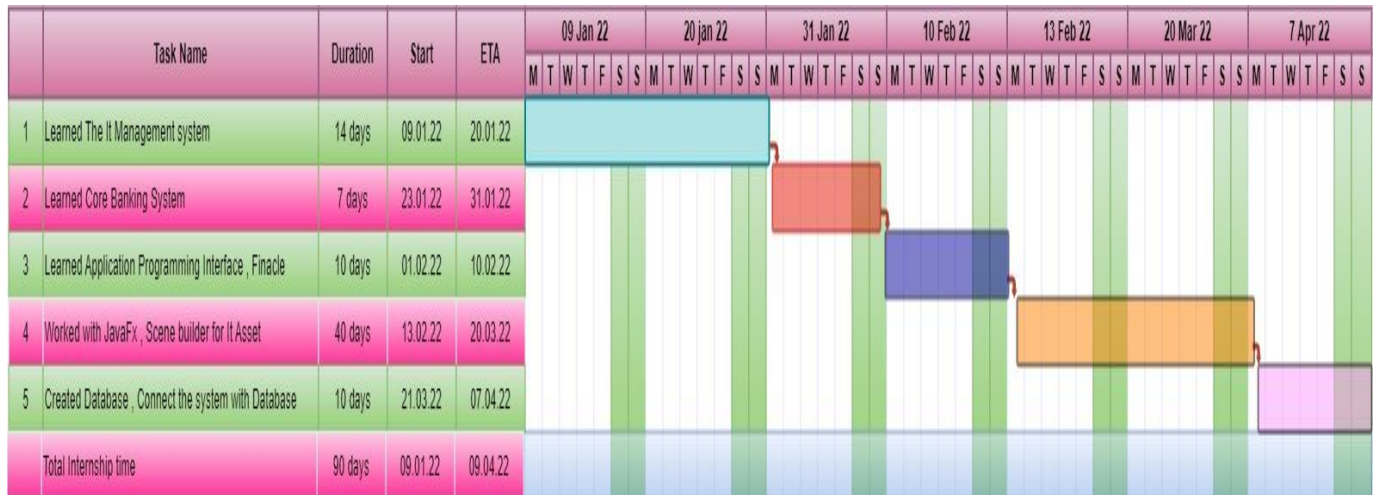
### 3.2 Process / Activity Wise Time Distribution

In my 3-month internship period I learnt a lot of things about industry, about how the industry works and how the employee behaves. I met a lot of people in my internship period as I have to do some system support to office employee. My activity wise time distribution as an intern are as follows:

**IT management System:** In my first month, I had the privilege to watch how City Bank 's IT systems work. The system depends on the management plan facilitates the delivery of IT as a service and allows an employees to respond quickly to changing business requirements and system activity. IT system is a way to maintain few records which bank holds in order to keep a track of everything in the bank so a software application is required in order to make the work easier, for example- maintenance of international value of INR and other currency are also a part of the job of the system.

**Core Banking System:** Then I Learned The Core Banking System .Core banking can be defined as a back-end system that processes banking transactions across the various branches of a bank. The system essentially includes deposit, loan and credit processing. Among the integral core banking services are floating new accounts, servicing loans, calculating interests, processing deposits and withdrawals, and customer relationship management activities. The City Bank has three types of core banking system Finacle , Ababil and Card System.

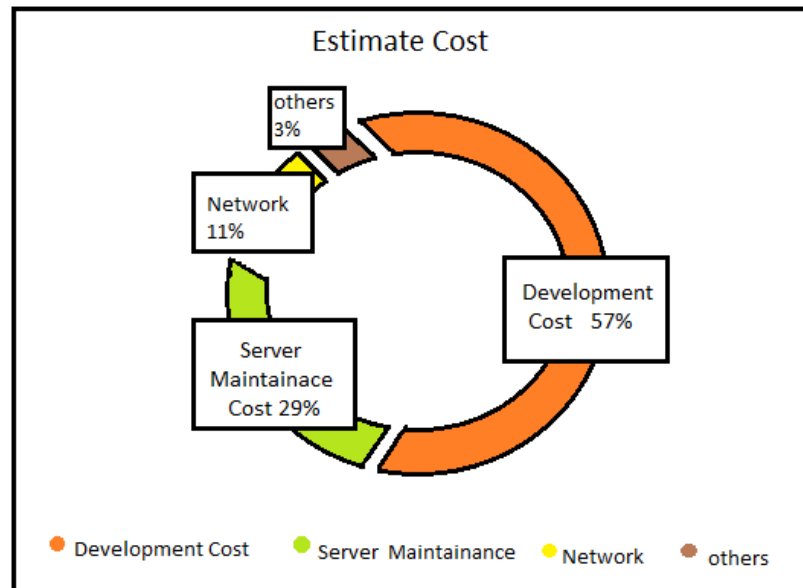
### 3.3 Gantt Chart



### 3.4 Process / Activity wise Resource Allocation

People	Development Team	Enterprise Architecture Team	Server Support Team
Equipment	Computer/Laptop	Fiber Cable, Router, Switch, Lan, Computer	Computing server
Facilities	AC Room , Personal Desk	Conference Room, Meeting Room	Great Working Environment
Materials	Personal Desktop	Printer	Provides friendly environment
Budget	Snacks	Communication cost	

### 3.5 Estimate Costing



#### 3.6.1 Methodology

Data is collected through record-keeping or pooling, observation, or measuring. The integral part was to identify and collect data; they were classified, analyzed, interpreted, and presented in a systematic manner. The nature of the report is qualitative and quantitative, and the source is primary and secondary. We must consult with various people, booklets, news, newspaper, and another source to gain correct data. This report is maintained based on primary as well as secondary sources which are given below:

The study began with the collection of primary and secondary data.

#### Primary Sources

- ❖ Work Experience- Most of the information and process were learned by working there. So many difficulties were faced when working there.

- ❖ Verbal Interview- I did some surveys about their system, what they really follow, and what difficulties they faced.
- ❖ Questionnaire- I ask some questions to the employees who work there. They helped me very much.
- ❖ Discussion with the relative IT person- I personally met with some of my relatives who work in IT to discuss about the IT sector.

## Secondary Sources

- ❖ Articles
- ❖ Magazine
- ❖ Newspaper

## Other sources

- ❖ Internet
- ❖ Web site

The other side what help me in major way to make this report is internet searching and their and other websites.

# Body of the Project

## 5.1 Work Description

As an intern of the Enterprise Architecture team, my important responsibility was to understand the systems of the organization. They provided the necessary documents to get an overview of the systems and team discussions. They assist me to understand all the terms and topics of the system. I had the privilege to observe how they create their database system and learn how it works. And I also know which software they used for creating their database system.

My task was to learn the Inventory System and Connect the database . I was involved in Research for different types of inventory system . Another responsibility was to monitor daily operational performance.



## How the ITAMS will work:

My organization has their own server system which is control by their only office computer. The It team server control all network system for all branches. This It Inventory management system is for keeping all the tracks of all the It existing it assets.

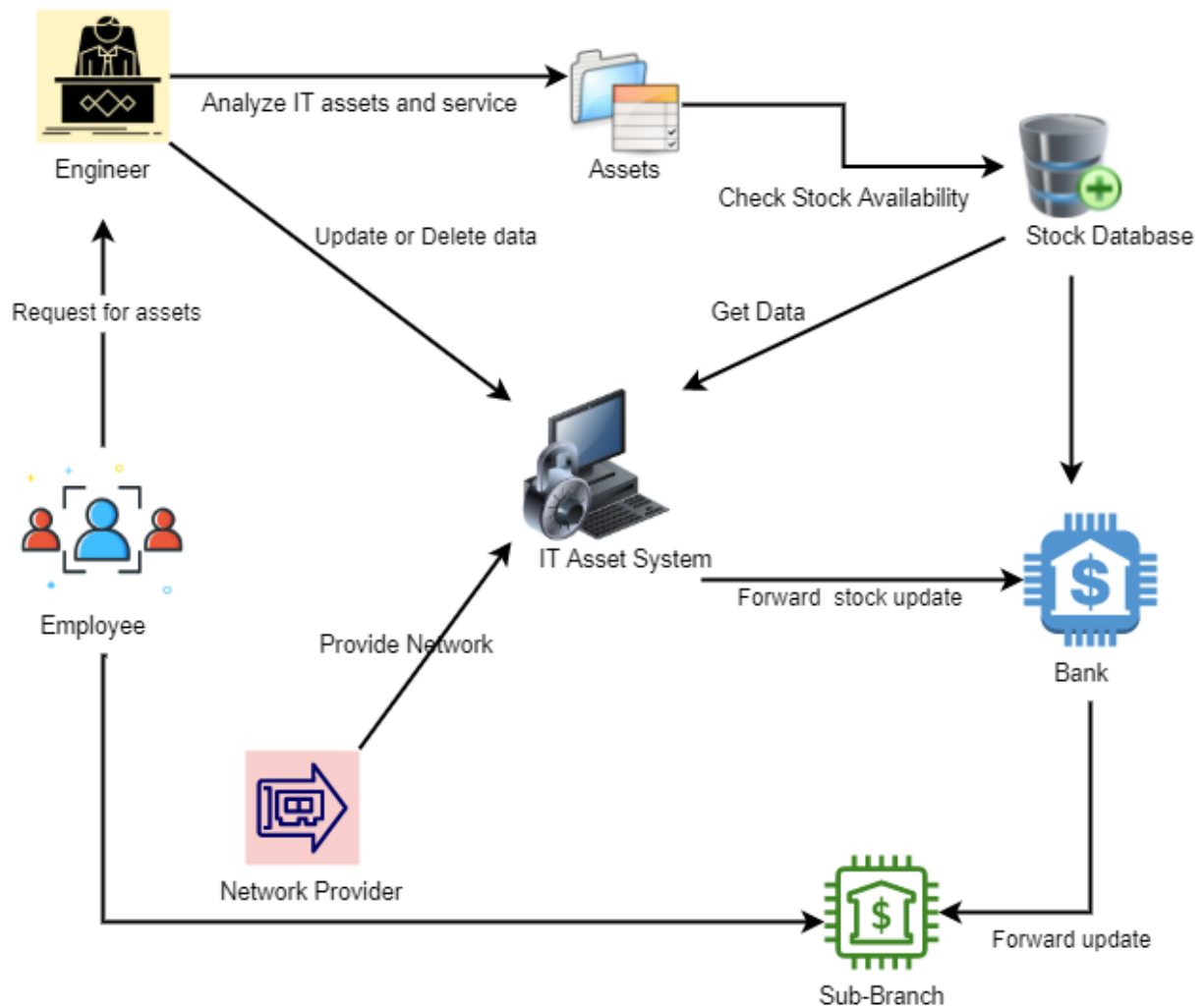
The following are the key elements for the inventory tracking system:

- ❖ Created well designed location names and clearly label all locations where items may be stored.
- ❖ Used well organized, consistent, and unique descriptions of every items, starting with nouns.
- ❖ Kept item identifiers (part numbers, etc..) short, consistently formatted, unique, and avoid common pitfalls.
- ❖ There Exists a good starting count of all the items, their locations, and any other relevant inventory data.
- ❖ All the Data stored in database table.

Every item is stored somewhere, that 'somewhere' has a name, and it is labeled with that name. If it doesn't, time will be wasted looking for things. Labels that are easy to read help everyone work faster. Labels that don't clearly state which location they're referring to (i.e. shelf labels, with no arrows, and shelves above and below) will cause the same delays and errors as poorly printed labels.

## 5.2 Requirement Analysis

### 5.2.1 Rich Picture



## 5.2.2 Functional and Non-Functional Requirements

### Non – functional requirements:

#### Performance requirements

ITAMS contains the functional and non-functional requirements of the project. This document contains the guidelines for website developer system engineers and designers to start working on the project.

The project is specifically designed for the use of Employees .

Non-functional Requirements (NFRs) define system attributes such as security, reliability, performance, maintainability, scalability and usability etc. They serve as constraints or restrictions on the design of the system across the different backlogs.

- ❖ Scalability in terms of large end-user population.
- ❖ Responses to view information shall take no longer than 5 seconds to appear on the screen.
- ❖ The allowable distributions of time which the system takes to respond to requests.
- ❖ Requirements stating when the service or each aspect of the service, must be available to its users. The disaster recovery ability to recover from recover from & continue service.
- ❖ The minimum proportion of time of given online service hour should be available.
- ❖ Each page must load within 5 seconds.

## Safety Requirements

Non- functional requirements can be divided into two main categories. Execution qualities, such as safety, security and usability which are observable during operation. The safety requirements are those requirements that are defined for the purpose of risk reduction.

- ❖ System use shall not cause any harm to human users.
- ❖ With safety requirements the website gives service 24 hours for all users.
- ❖ Safety requirements are designed into the software in a timely, cost effective manner.
- ❖ Every requirement should include the supporting information that is appropriate for project.

## Security Requirements

This non-functional requirement assures that all data inside the system or its part will be protected against malware attacks or unauthorized access. If your security relies on specific standards and encryption methods, these standards don't directly describe the behavior of a system, but rather help engineers with implementation guides.

- ❖ System will use a secured database.
- ❖ Correct identification of parties attempting access to the system and protection of the system from unauthorized parties.
- ❖ Data confidentiality extent to which data needs to be protective and kept confidential.
- ❖ The processes which will be used to confirm systems compliance with an organization's security standards and policies.
- ❖ Security driven auditing in order to ensure that security guidelines and policies are not being breached.
- ❖ Normal users can just read information but they cannot edit or modify anything except their
- ❖ Personal information and some other information.
- ❖ System will have different types of users and every user has access constraints.

## Software Quality attributes

Software quality requirements can also be non-functional, it can be a performance requirement. This requirement specifies properties of the developed system in terms of the ease with which fixes, enhancements and modifications can be made to it and what support is required for implementing those releases.

- ❖ Flexibility, the degree to which systems like code, parameters, components, modules etc... is intended to support change.
- ❖ Portability, the extent to which the system supports platform independent, so that it could be ported to alternative platforms.
- ❖ Data management, category of requirements relatable to the way which data is to be stored, managed and protected.
- ❖ Data integrity, correctness & completeness of data must be mentioned in the system.
- ❖ Data backup & restore, creating secure backup of operational data stores.
- ❖ Reusability, the likelihood that an asset can be used again to add new functionality with slight or no modification.

## Business Rules

Business rules are not functional requirements. However, business rules may strongly influence functional requirements. If business rules are not clearly documented, it is easy to miss them and can result in a significant amount of costly project rework. Business rules are assumptions. Business rules are one of the main sources of functional requirements for software, they determine the capabilities that the system must have for the rules implementation.

- ❖ Internationalization, the required languages and locales the applications must support. And defines the user preferences for that region, such as data format, number format etc.
- ❖ Describing legal requirements and/or legislative constraints which arise from outside the clients own organization.

- ❖ Associated risk, describe the identified risks associated with the project which might impact, for example whether new or unproven technology might be used on a project.
- ❖ Interoperability, the capability of two or more components and/or systems to exist or function without mutual interference.
- ❖ Increased revenue/user reach
- ❖ Reduces expenses/errors
- ❖ Improve users' service

## Functional requirements

### Requirement ID: ITAMS-1

Title- Provide algorithm for It Asset System

Description- This action is done to creates algorithm for It Asset system.

### Requirement ID: ITAMS-2

Title- Update It Asset System

Description- This action is done to update or delete any asset information in the system.

### Requirement ID: ITAMS-3

Title- Update stock data

Description- This action is done to analyze it service and after that check stock availability and update the data to the system.

#### Requirement ID: ITAMS-4

Title- Store data

Description- This action is done to store any asset information in the system.

#### Requirement ID: ITAMS-5

Title- Update It Asset System

Description- This action is done to forward data to the system.

#### Requirement ID: ITAMS-6

Title- Forward data

Description- This action is done to forward current status update to the bank main section.

#### Requirement ID: ITAMS-7

Title- Forward status update to sub-branch

Description- This action is done after Bank main section receives the status info then it passes to rest of the braches.

### 5.3 System Analysis

System development is a step-by-step procedure that contains several parts such as planning, maintenance, design, analysis etc. System analysis is a process of gathering and interpreting facts, finding problems, and breaking down the whole system into its individual components. A system analysis is conducted to

investigate a system or its components in order to determine its goals. So overall system analysis is a problem-solving method that develops the system and ensures that all of the system's components work together to achieve their goals.

### 5.3.1 Six Element Analysis

PROCESS	HUMAN	NON-COMPUTER COMPUTER HARDWARE	COMPUTER HARDWARE	SOFTWARE	DATABASE	COM& NETWORK
<b>WINDOWS SERVER 2012 R2</b>	Engineer	N/A	Browser/PC	2012 R2	Cloud	Internet
<b>IT ASSET SYSTEM</b>	Engineer	N/A	Browser/PC	Java, Scene Builder, Spring Boot	Cloud	Internet
<b>COMPANY</b>	Authority	N/A	Browser/PC	N/A	Cloud	Internet
<b>FILE SHARING</b>	Engineer	N/A	Browser/PC	citybank.com	Cloud	Internet
<b>DATA ANALYST</b>	Engineer	N/A	Browser/PC	Excel, Doc	Cloud	Internet
<b>DATA COLLECTOR</b>	Engineer	N/A	Browser/PC	Pdf	Cloud	Internet

### 5.3.2. Feasibility Analysis

The analysis of a proposed project to determine whether it is feasible and should go ahead is called feasibility analysis. Confirmation of design, plan and strategy is the main priority of this analysis. This can be used to validate assumptions, constraints, decisions and approaches. A feasibility study is conducted to



determine whether the project, upon completion, will serve the organization's purpose for the amount of work, effort, and time spent on it. A feasibility study enables the developer to envision the project's future and usefulness. A feasibility study evaluates a system proposal's workability, which includes the impact on the organization, the ability to meet user needs, and the efficient use of resources.

A feasibility study assists in identifying logistical issues, as well as nearly all other business-related issues and their resolutions. Additionally, feasibility studies can result in the development of marketing strategies that persuade investors or a bank that investing in the business is a sound investment. A feasibility study is conducted to determine the viability of a proposed system in terms of technical, operational, and economic factors. After conducting a feasibility study, we can gain a clear understanding of the system's advantages and disadvantages.

There are some main parts of feasibility analysis. They are -

### **Technical Feasibility:**

The technical possibility of developing a product per client expectation is called technical feasibility. In technical feasibility, evaluation of the software, hardware and the other technical requirements of the proposed system are performed. This evaluates the details of how we intend to deliver a product or service to customers. Labor, materials, transportation, where our business will be located, and the technology that will be necessary to bring all this together.

To build our project “It Asset Management System” we have used JavaFx and Scene Builder for Frontend and designing . For the Back-end/Database part we have used XAMPP version 3.2.2 , MySqlConnection . NetBeans IDE version 8.0.2 Scene Builder version 2.0 is much easier to learn and use for the Frontend part. These softwares simply enables developers to use individual components of their application on both the client-side and the server-side, resulting in a faster development process.

### **Operational Feasibility:**

Operational feasibility is a measure of how well a proposed system solves the problems and satisfies the system requirements identified during the scope definition and problem analysis phase. It is dependent on human resources available for the project and involves projecting whether the system will be used if it is developed and implemented. “ITAMS” has been developed in a very easy and simple way so that everyone can use this easily without any hassle. It is a well-planned system which is very easy to understand and easy to use. People will accept it without any doubt. People of all ages will be able to use it. Users need not have a lot of technical knowledge to run this system. Every instruction is very clear to the users. We hope this system will be able to fulfill the requirements of the users.

### **Economic Feasibility:**

In economic feasibility, costs and benefits are identified. It determines cash flow and assigns values to costs and benefits. Development costs and production costs are included in economic feasibility.

Our project “ITAMS” is a platform from which people will benefit in so many ways. We can say that our project system is nothing but a product. If this system can reach the users it will definitely bring benefits. On one hand it will reduce the costs of wasting pens and papers. On the other hand benefits will come depending on the uses.

## **5.3.3 Problem Solution Analysis**

### **Problems:**

In Our System may also cause issues such as:

- ❖ **Eye strain:** As harmful radiations are emitted from the PC, Laptop and Mobile screens then it may cause some eye strain problems.

- ❖ **Internet:** As this system will require internet connection once it has been launched.
- ❖ **Load shedding:** If anyone uses desktop and Wi-Fi routers then load shedding may create problems while using this system.
- ❖ **Page-Loading:** The traditional SCENE BUILDER took much time to load and had C grade rating when tested.

## Solutions:

Now I am going to discuss about the solutions of the problems mentioned above:

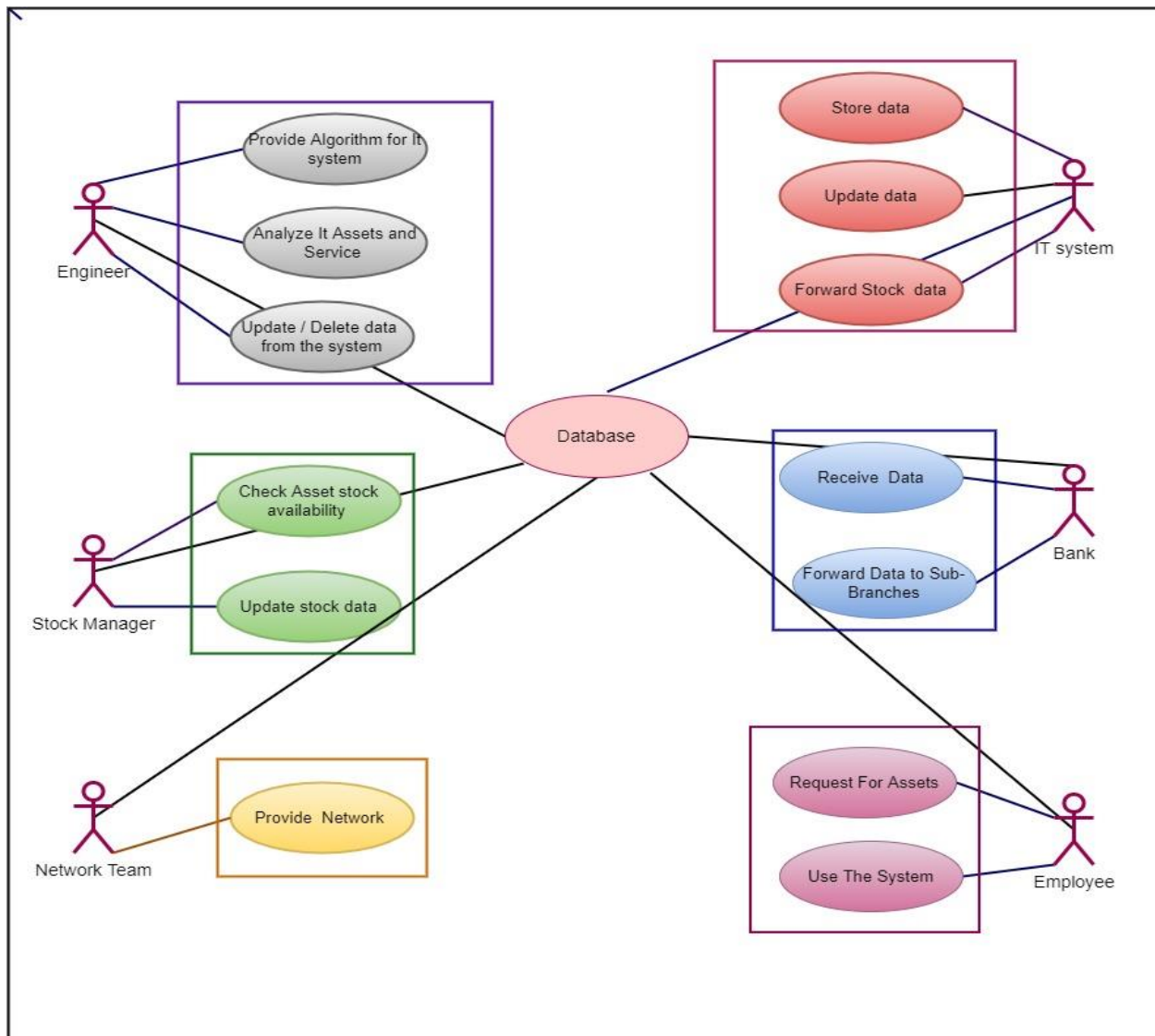
- ❖ **Eye strain solution:** Brightness of the device should be maintained while using this system.
- ❖ **Solution to the internet problem:** Nowadays internet data is not so costly that we cannot afford that. Our system does not consume a lot of data.
- ❖ **Load shedding solution:** As this system can be run from laptop and mobile that do not require continuous electricity connection, users can use them very easily.
- ❖ **Page Loading Solution:** Another Software for developing our project can helps our project to become faster and more efficient.

## 5.3.4 Effect and Constraints Analysis

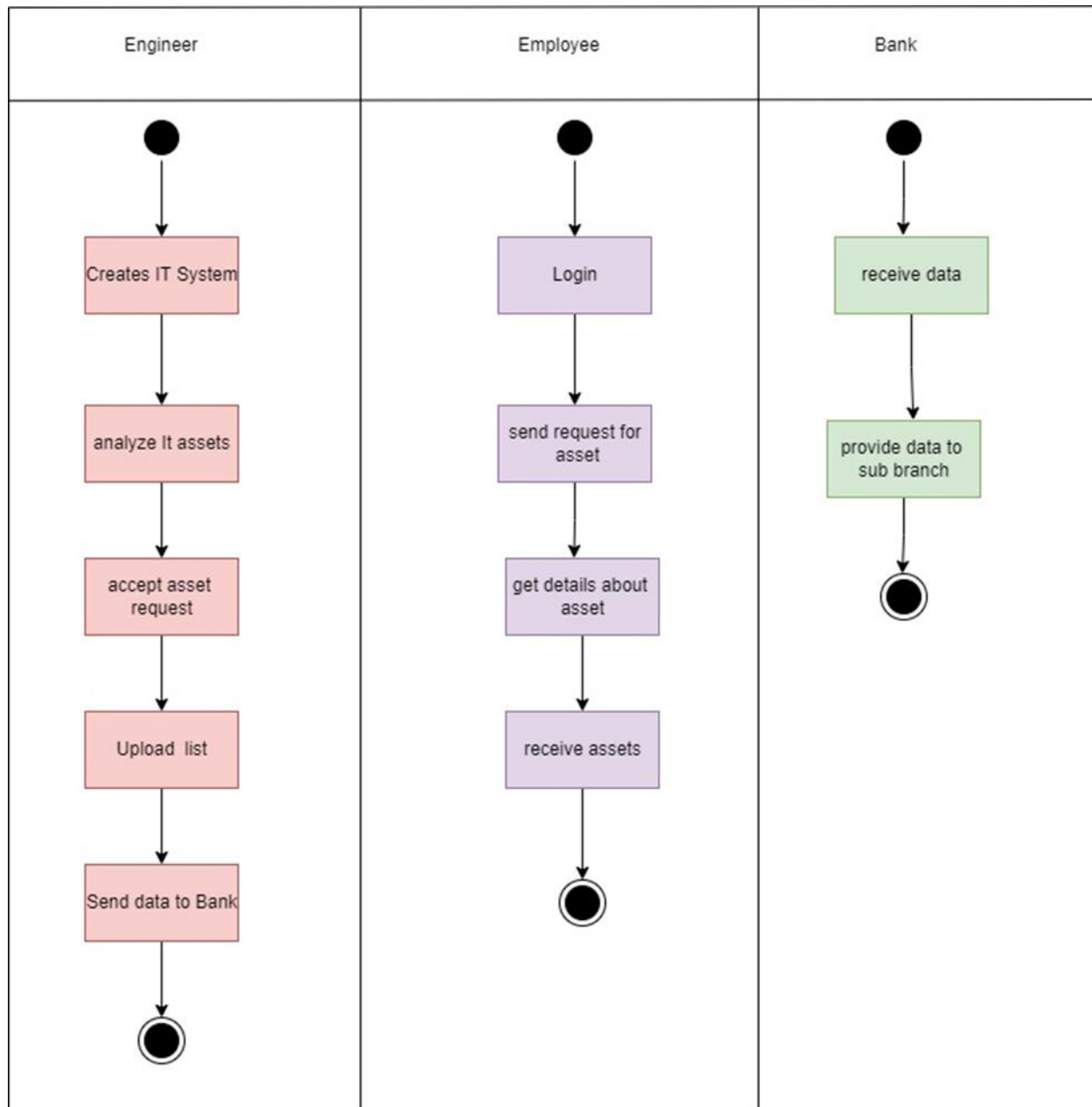
In this System Module all employees will be able to Login and can view the system structure. This is a system that allows to see everything that IT sector owns at once, while also allowing to see Employee List , Hardware List , Software List etc . As discussed earlier, our system has some constraints. We are planning to overcome those constraints in the future.

## 5.4 System Design

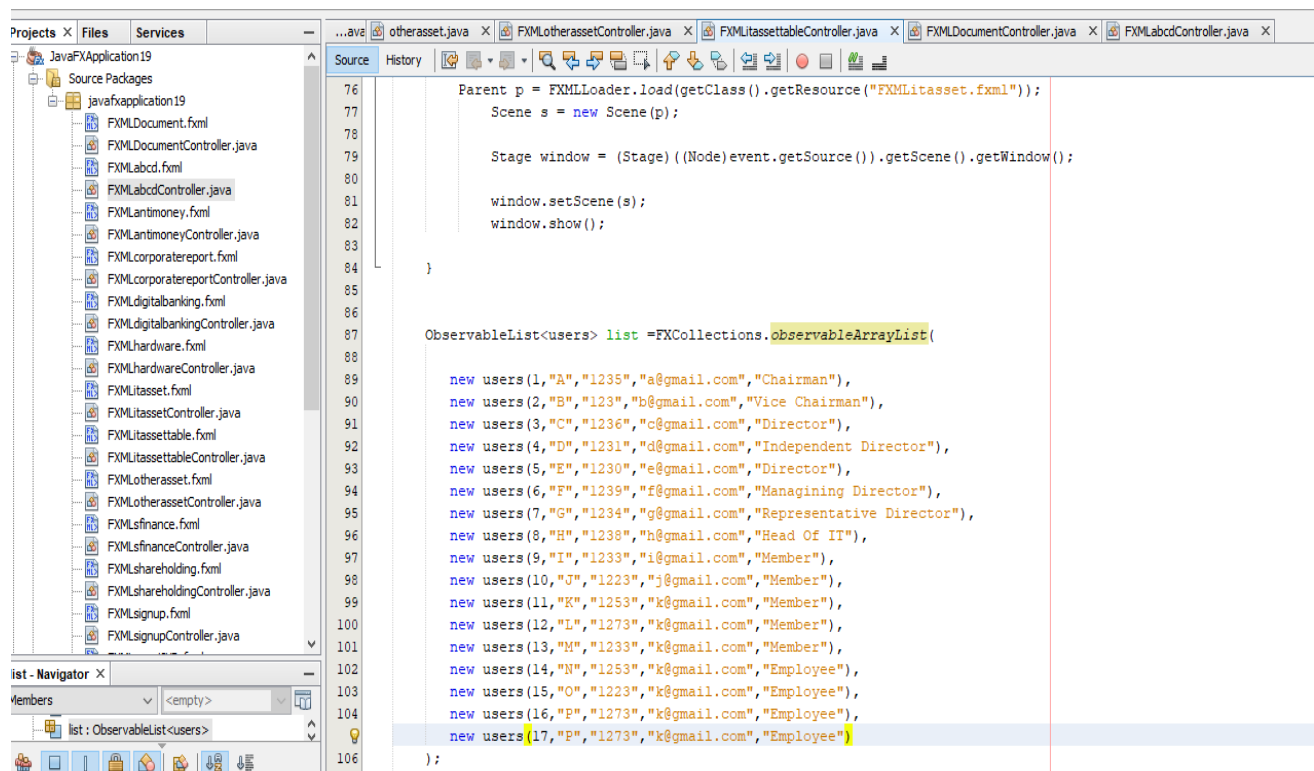
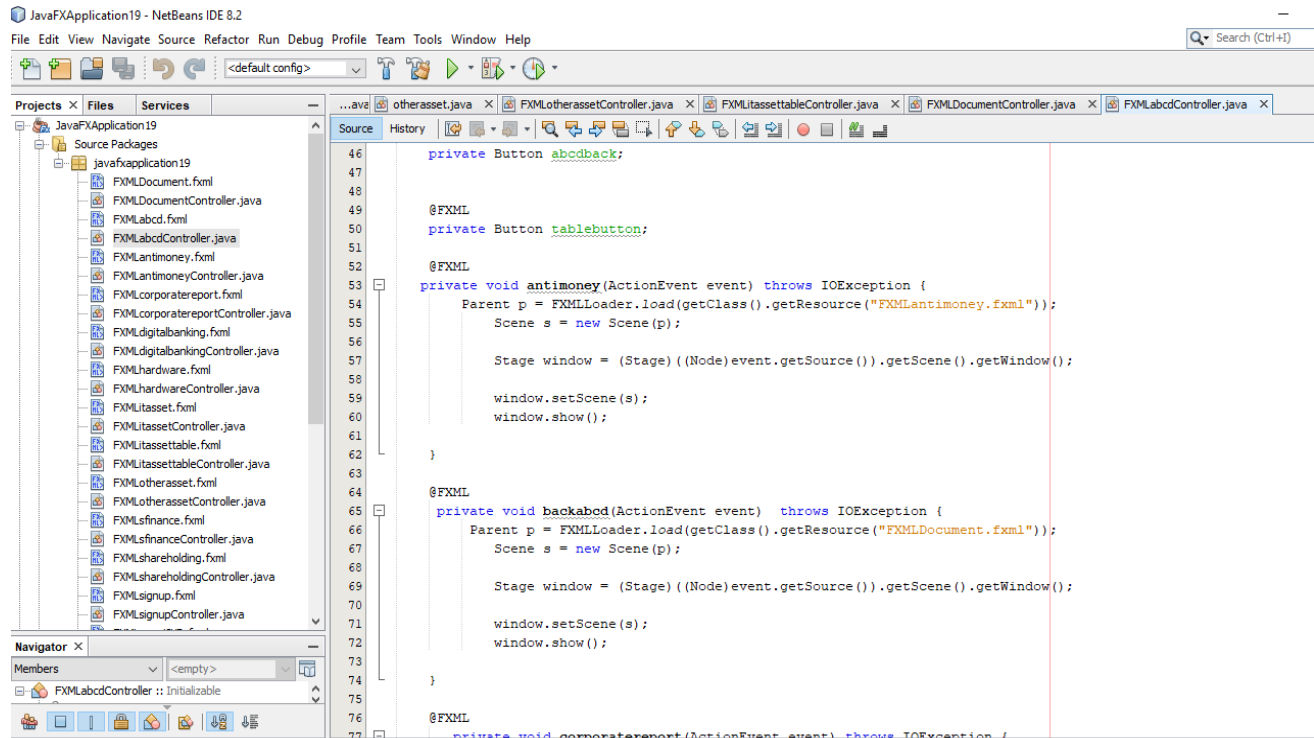
### 5.4.1 UML Diagrams



## 5.4.2 Activity Diagram



## 5.5 System Implementation



```

19  @author Fariba Rhidi
20  /
21  public class mysqlconnect {
22      Connection conn = null;
23      public static Connection ConnectDb(){
24          try {
25              Class.forName("com.mysql.jdbc.Driver");
26              Connection conn = (Connection) DriverManager.getConnection("jdbc:mysql://localhost:3306/data","root","");
27              // JOptionPane.showMessageDialog(null, "Connection Established");
28              return conn;
29          } catch (Exception e) {
30              JOptionPane.showMessageDialog(null, e);
31              return null;
32          }
33      }
34  }
35
36  public static ObservableList<users> getDatausers(){
37      Connection conn = ConnectDb();
38      ObservableList<users> list = FXCollections.observableArrayList();
39      try {
40          PreparedStatement ps = (PreparedStatement) conn.prepareStatement("select * from users");
41          ResultSet rs = ps.executeQuery();
42
43          while (rs.next()){
44              list.add(new users(Integer.parseInt(rs.getString("user_id")), rs.getString("username"), rs.getString("pass
45          }
46      } catch (Exception e) {
47      }
48      return list;
49  }
50  }

```

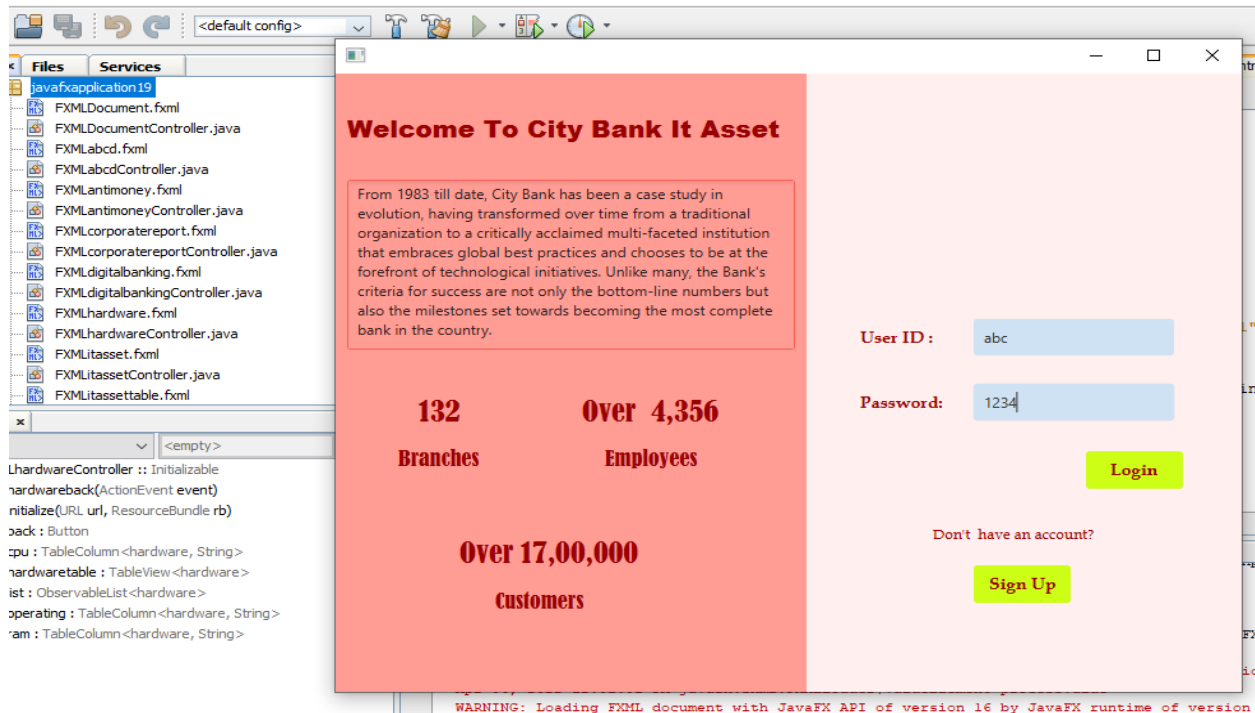
```

10  * @author Fariba Rhidi
11  */
12  public class users {
13
14      int id;
15      String username, password, email, type;
16
17      public void setId(int id) {
18          this.id = id;
19      }
20
21      public void setUsername(String username) {
22          this.username = username;
23      }
24
25      public void setPassword(String password) {
26          this.password = password;
27      }
28
29      public void setEmail(String email) {
30          this.email = email;
31      }
32
33      public void setType(String type) {
34          this.type = type;
35      }
36
37      public int getId() {
38          return id;
39      }
40
41      public String getUsername() {

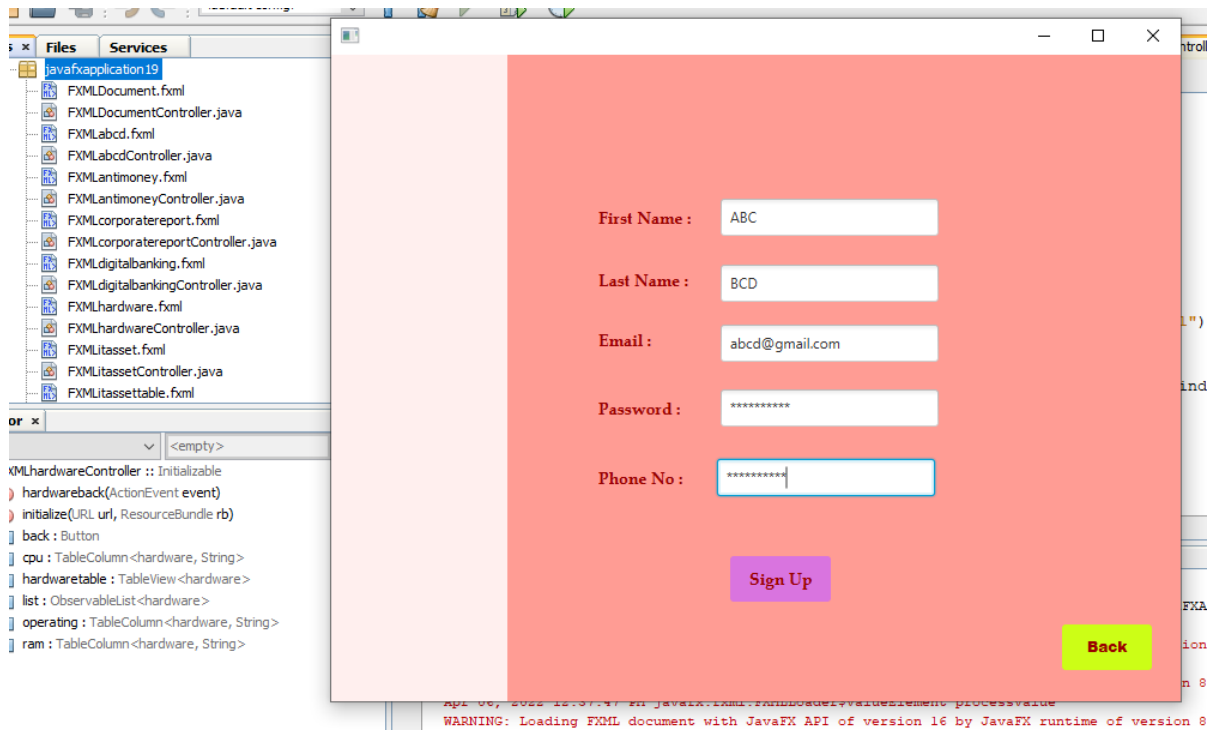
```

## 5.5 System Testing

### Front Page

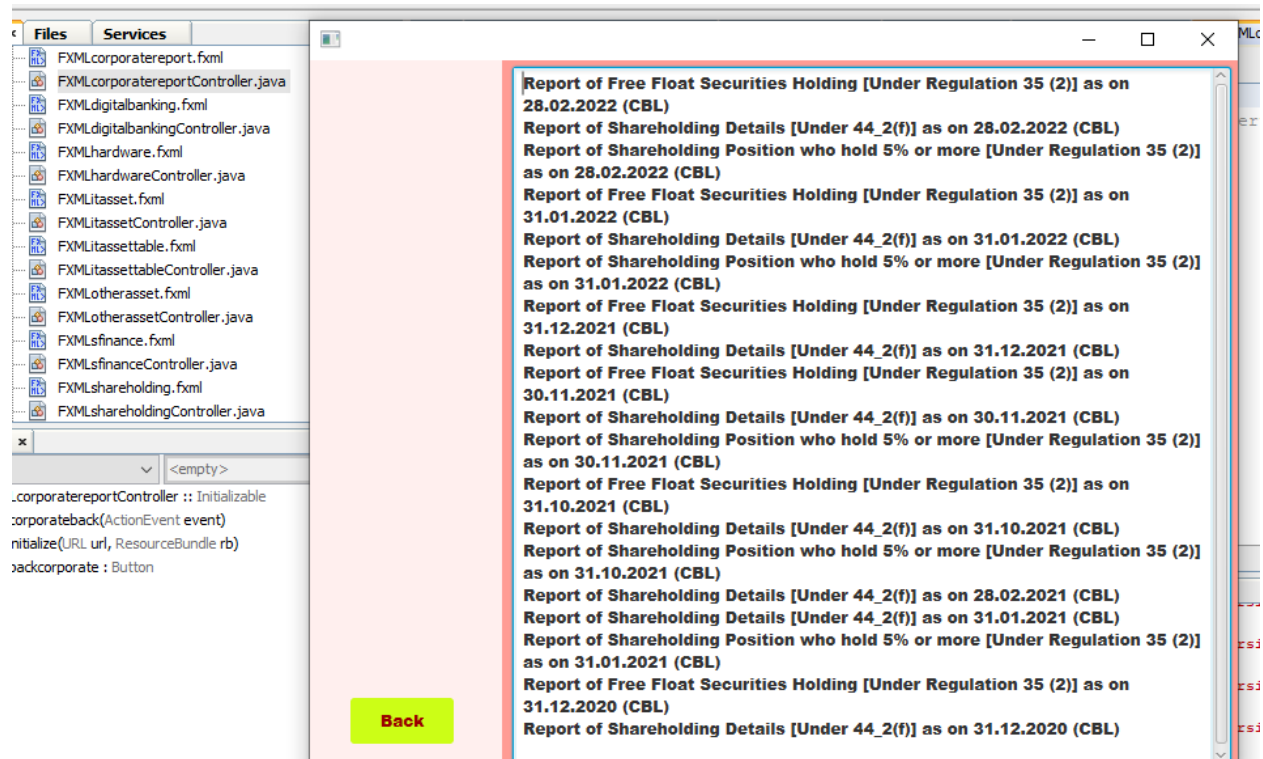
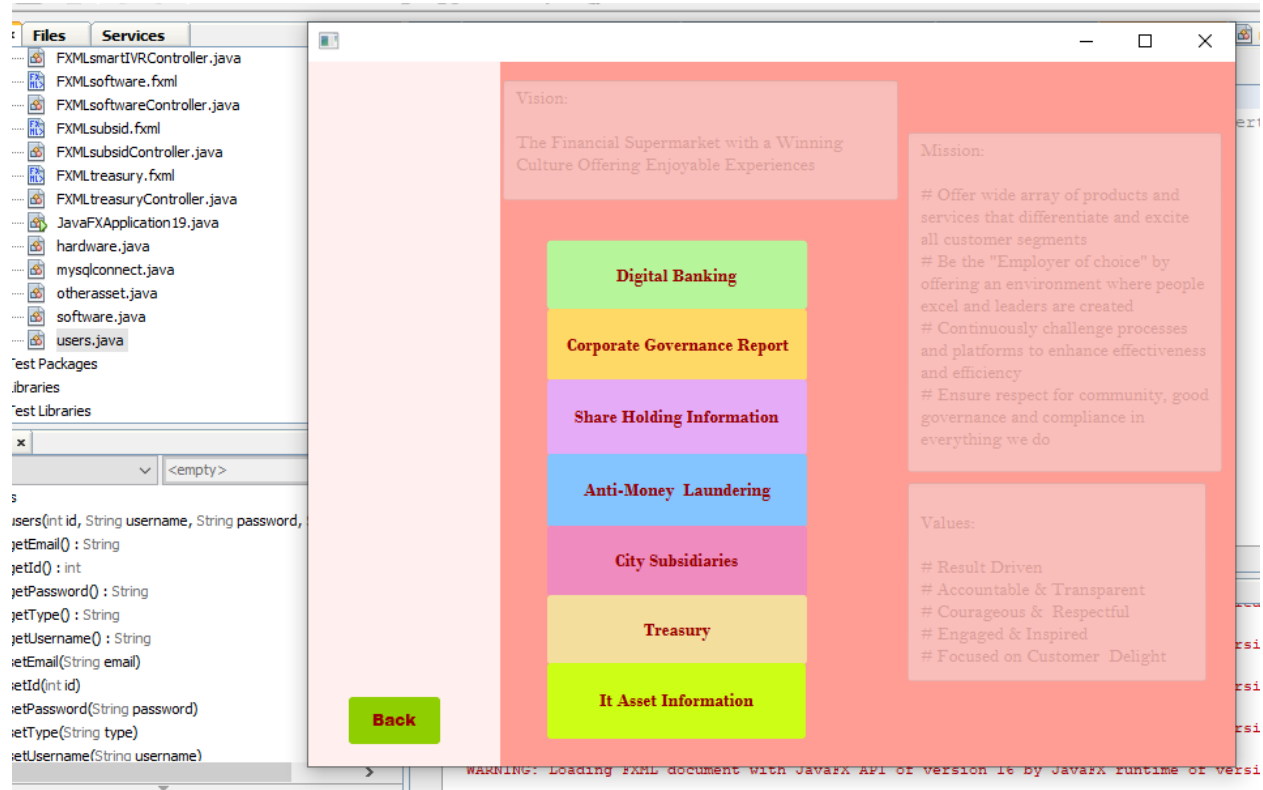


### Sign Up Form

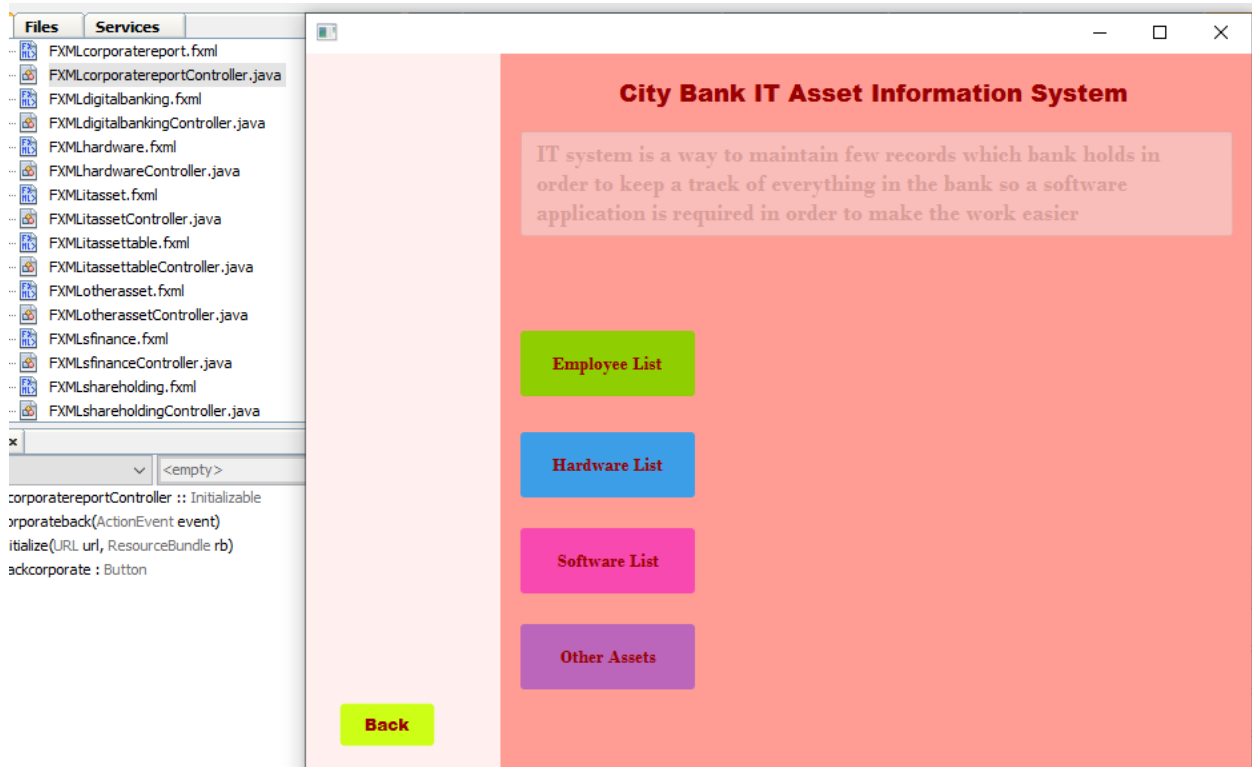




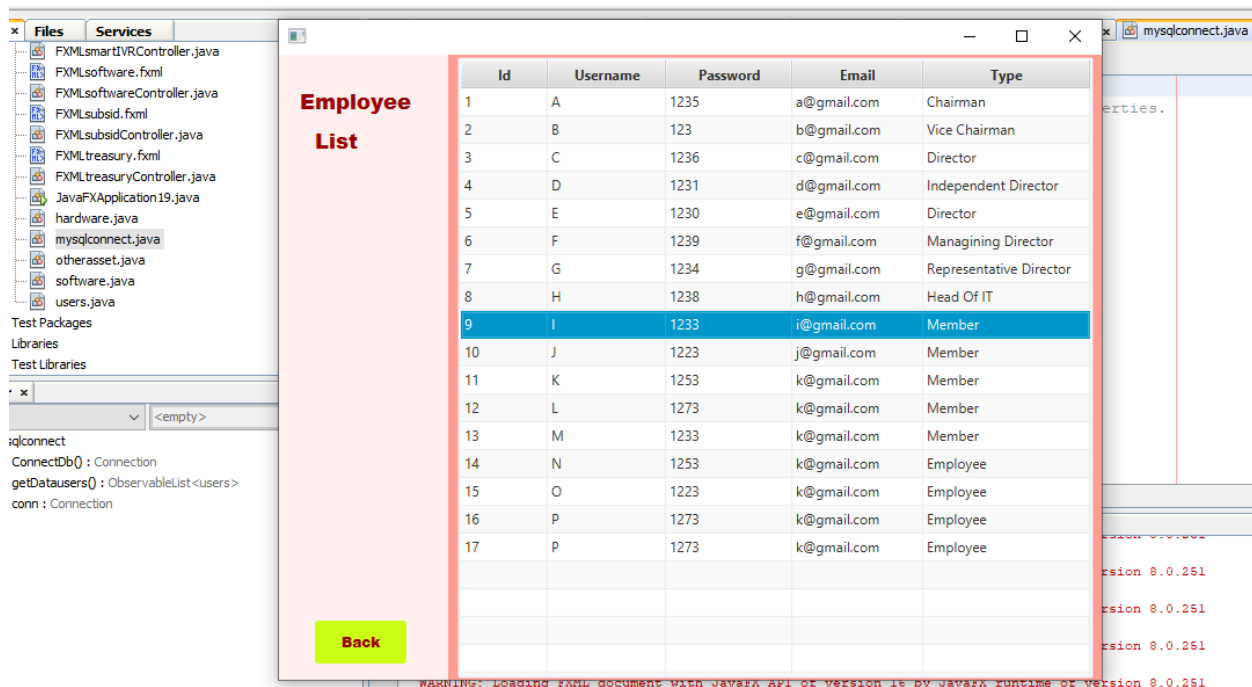
## After Login Action



## It Asset List



## Employee List



**Files**

- FXMLsmartTVRController.java
- FXMLsoftware.fxml
- FXMLsoftwareController.java
- FXMLsubsid.fxml
- FXMLsubsidController.java
- FXMLtreasury.fxml
- FXMLtreasuryController.java
- JavaFXApplication19.java
- hardware.java
- mysqlconnect.java
- otherasset.java
- software.java
- users.java

Test Packages

Libraries

Test Libraries

sqlconnect

ConnectDb() : Connection

getDatausers() : ObservableList<users>

conn : Connection

## Hardware List

Operating System	RAM	CPU
Windows XP (Desktop)	8GB	Intel Core i5
Windows Vista (Desktop)	8GB	Intel Core i3
Windows XP (Desktop)	8GB	Intel Core i5
Windows XP (Laptop)	8GB	Intel Core i5
Windows XP (Laptop)	8GB	Intel Core i3
Windows Vista (Laptop)	12GB	Intel Core i5
Windows XP (Desktop)	8GB	Intel Core i5
Windows XP (Desktop)	12GB	Intel Core i7
Windows XP (Laptop)	8GB	Intel Core i3
Windows XP (Laptop)	8GB	Intel Core i5
Windows Vista (Laptop)	12GB	Intel Core i3
Windows XP (Windows)	8GB	Intel Core i5
Windows XP (Laptop)	12GB	Intel Core i7

**Back**

[illegible]

## 6. Results & Analysis

Computer asset management is essential to IT asset management operations. Knowing which assets we own, who has access to them, and how they're behaving helps the business run, and helps keep costs low and work efficient. Asset tracking software is a system that allows to log assets and track them. There is full IT asset register of laptops, computers, and other IT assets, including software. This IT asset register is made up of unique, individual asset profiles. On these profiles add and manage specific data, such as maintenance, location, and usage data are included. Overall, asset tracking software is a system that allows us to see everything your business owns at once, while also allowing you to see the individual assets that make up that list.

Now how will my project help in my workplace?

This IT asset Management System register is made up of unique, individual asset profiles. On these profiles, Employees will be able to Login with their Id and Password. After logging in, A Banking related Facts of The City Bank will come up. Digital Banking System, Corporate Governance Report, Share Holding Information's, Anti-Money Laundering, City Subsidiaries, Treasury are included as button. Clicking on each button will bring up the relevant facts.

This is a system that allows us to see everything that IT sector owns at once, while also allowing to see the individual assets that make up that list in The It asset button where Employee List, Hardware List, Software List etc are included.

Finally we can say that this system will bring better meant for all employees in the it division in my organization.

## 7. Project as Engineering Problem Analysis

### 7.1 Sustainability of the Project/Work

In today's world, project sustainability is more essential than ever. Project sustainability involves both individual and organizational responsibility to ensure that outputs, outcomes and benefits are sustainable over life cycles and during their creation, disposal and decommissioning. In the project profession, sustainability is a business approach that balances the environmental, social, and economic components of project-based work to meet present stakeholder needs without jeopardizing or overburdening future generations.

This project I am working on is based on The City Bank economical and environmental issues. This project will be used as profit for my organization. As employees are working manually for IT division this project will help them to control the division.

### 7.2 Social and Environmental Effects and Analysis

Technology can mean that certain roles in a company are no longer required. New jobs are created but it is uncertain whether ICT has created or reduced opportunities in the long term. Advancements in technology have had a huge impact on the entertainment industry. Nowadays the internet is a part and parcel of our daily life and we cannot imagine our daily and social life without it. Connectivity is the key and that is the most important thing we got from the internet. Developers and Designers are building the online store or websites. The server that the website runs on needs to be built and supplied. The content needs adding to the server all of the information about a song, album or movie must be entered into the website's database and the server and website must be maintained. All of these jobs require an employee to have advanced IT skills. This is true of many jobs today in the Technology industry and many employees undergo extensive retraining to enable them to remain in work. ICT can benefit the environment, for example it has given people the option to work from home, reducing the need to travel into work.

## 7.3 Addressing Ethics and Ethical Issues:

People around the world have got a different set of ethics. Problems might arise when one's ethics are pointed wrong by others which may cause some kind of unwanted uneasiness. This is the generation where we're all surrounded by gadgets smartphones laptops computers many more and with all these gadgets comes many other ethical situation like securities as now we're in a time of smartphones and computers there is a huge chance of data breach so when we are developing something any web application or a website or software we have to think of the security first , security of the data, security of the user, security of the application so that it cannot be hacked or accessed by any outsider who have no permission to do so here we follow some ethics like we only collect the data that is required ,we don't sell the data to any other parties or any other companies , we improve our securities to store data in our servers so that cannot be accessed by others and secure application that the user can trust and use without any hesitation so here in the project of The City Bank IT Asset Management System ,I have collected the data and it is stored and it will be used only by the employees for the purpose of the application development . I've already mentioned the user data securities and have followed every step to keep the data safe and not let any other or any third party to get access into our database only enterprise architecture team has the access of the database for the system development.

## 8. Lesson Learned

### 8.1 Problem Faced During This Period

During my Internship period at The City Bank IT Service, there were many problems that we had to go through. The first was the Covid-19 period which made it risky to travel to work. I tested Covid positive at that time and had to work from my home. Also We had to do work from home during the lockdown period.

When doing work from home, interactions with seniors and colleagues became a little difficult and many faced network problems and issues while doing zoom meetings and discussions. While we were working on this project we faced many problems. when we were briefed about the project it took me quite some time to understand the requirements as it was my first practical infield project so it took me some time to understand the requirements then as we worked with new technologies it took me some time to get comfortable with the technologies and the software's . We faced some bugs while coding . we were also concern about the performances of the application .so this was the problems I faced during my project time.

## 8.2 Solution of Those Problems

While doing this project i faced a lot of problems but the challenge was how to resolve them. when problems like understanding occurs i used to take notes and used to question to our superior who briefed us about the project and i cleared the doubts . on the other side While there are problems, there are solutions too.

## 9. Future Work & Conclusion:

### 9.1 Future Works

In real life finding a job can be a big challenge of anyone of our country, especially if we have no experience. That's why I have chosen Internship, because it can help me to improve my career opportunity into an experience. So, this internship provides me to find scope in future life:

- ❖ Work as an IT manager of a company.
- ❖ Work as a Software Engineer.
- ❖ Work as a Web Developer .
- ❖ Work as a technical support and security manager.
- ❖ Work as an It Asset Manager.
- ❖ Work as an Inventory Manager.

## 9.2 Conclusion

An asset management system is needed because it helps organizations to monitor and manage their assets using an organized approach. IT asset management and tracking software modules will assist us to work in a synchronized form to efficiently manage all information about the key assets and equipment. With unlimited custom fields, QR/Barcode/Rfid asset tagging and tracking, audits, excel imports and export, GPS tracking, maintenance, APIs, reports, analytics, and inventory management. When asset management is managed efficiently, it will benefit in productivity and efficiency, to place the business in a better position and increase the asset return on investment. When I started working as an Intern in The City Bank IT , I had some basic ideas, but the professional sector is completely unique and different. I also had no clue where to start. It is all about dedication and passion so I start asking questions to the senior, sit beside them to see what they are doing . I have come to learn and know many new unknown things. I have achieved so many new skills and knowledge. It made me understand that professional practice is important. After working on here I have gained new knowledge, skills, and met so many new people. I got insight into professional practice. The demand for practical work experience has no other alternative in today's job market. An internship is a great opportunity to achieve this experience.