###### UOG FINAL BLUE NEW TAG

Department of Information Technology

University of Gujrat

**Second Hand Book Store**

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Session: MSC IT 2020-2021

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STATEMENT OF SUBMISSION

This is certifying that **Saba Anwar** Roll No. 19010856-022, **Tooba** Roll No. 19010856-028 and **Maham Munir** Roll No. 19010856-027 and **Saman Naeem** Roll No: 19010856-045 has successfully completed the final year project named as­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­ **“Second Hand Book Store”** at the Department of Information Technology, University of Gujrat, to fulfill the requirement of the degree of \_\_MSC\_\_\_\_\_ **in Information Technology**.

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**Abstract**

Books are very essential for each and every one of us in order to increase our knowledge. An online book store is a virtual store on the internet where customers can browse the catalog and select books of interest. At checkout time, items in the e-library will be presented as an order. At that time, more information will be needed to complete the request. Usually, the customer will be asked to fill online form. An e-mail notification is sent to the customer as soon as the order is placed.

This project intends different types of forms with many types of books like story, drama, romance, history, adventures, etc. it can manage studying of books online, customers can choose many types of books categories etc. Here, the user may select desired book and view its price. The user may even search for specific books on the website. Once the user selects a book, he / she then has to fill in a form and the book is provided for the user.

A customer can login to his / her account, can browse any book of his / her own interest, and can view prices and other details of selected book, place his/her order and can select from payment options. User needs to register on the site before checking out so that, he / she can login using same ID and Password next time. User can select any payment option that he / she wish to, like Fast Cash, Credit / Debit card or Cash on delivery.

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# Chapter 1: Project Feasibility Report

## Introduction

Books are very essential for each and every one of us in order to increase our knowledge. An online book store is a virtual store on the internet where customers can browse the catalog and select books of interest. At checkout time, items in the e-library will be presented as an order. At that time, more information will be needed to complete the request. Usually, the customer will be asked to fill online form. An e-mail notification is sent to the customer as soon as the order is placed.

This project intends different types of forms with many types of books like story, drama, romance, history, adventures, etc. it can manage studying of books online, customers can choose many types of books categories etc. Here, the user may select desired book and view its price. The user may even search for specific books on the website. Once the user selects a book, he / she then has to fill in a form and the book is provided for the user. A customer can login to his / her account, can browse any book of his / her own interest, and can view prices and other details of selected book, place his/her order and can select from payment options. User needs to register on the site before checking out so that, he / she can login using same ID and Password next time. User can select any payment option that he / she wish to, like Fast Cash, Credit / Debit card or Cash on delivery.

## 1.2. Project/Product Feasibility Report

When a project is started the first matter to establish is to assess the feasibility of a project or product. Feasibility means the extent to which appropriate data and information are readily available or can be obtained with available resources such as staff, expertise, time, and equipment. It is basically used as a measure of how practical or beneficial the development of a software system will be to you (or organization). This activity recurs throughout the life cycle.

There are many types of feasibilities:

* **Technical**
* **Operational**
* **Economic**
* **Schedule**
* **Specification**
* **Information**
* **Motivational**
* **Legal and Ethical**

### 1.2.1. Technical Feasibility

Our Project is a complete web-based application. Web based applications are far more compatible across platforms than traditional installed software’s. Web based systems need only be installed on the server placing minimal requirements on the end user workstation. Due to the manageability and cross platform support deploying web applications to the end user is far easier. Typically, in larger more complex systems data is stored and moved around separate systems and data sources. In web-based systems these systems and processes can often be consolidated reducing the need to move data around.

The main technologies and tools that we are going to use are:

Php

HTML

Javascript

Bootstrap

CSS

Each of the technologies mentioned above are easily available. We have experience to use these technologies so it would be manageable to implement the project within the given time. So, it is clear that project **Second hand Book Store** is technically feasible.

### 1.2.2. Operational Feasibility

**Second hand Book Store** will be a GUI based web application so the user will be able to easily understand the system and there will be no need of training. The system will help customer to check the feature and price of products by himself and with the help of a “Digital Signage” we can easily show data, reduce display cost and salesman, and also show photographs, videos and product features.

### 1.2.3. Economic Feasibility

**Second hand Book Store** will be developed using open-source software like Microsoft Visual studio and MySQL, so our project is economically feasible because the proposed system is very affordable. So, there is no issue related to development tools.

### 1.2.4. Schedule Feasibility

Time is an important factor. To complete the project in time we have made Gantt chart for our project task schedule which is mentioned in heading 1.7. According to our schedule plan our project will be implemented till March and there will be one month for testing purpose. So, it is clear that **Second hand Book Store** is feasible to complete before the deadline.

### 1.2.5. Specification Feasibility:

Our project boundaries are linked with customers, salesmen and owners. Requirements of our project are definite and understandable, so we have acquired all the requirements for **SHBS**. We used the observation technique for requirement gathering. Now we are clear about the requirements for **SHBS,** so it is possible to complete this project.

### 1.2.6. Information Feasibility:

The feasibility of information must be assessed regarding its completion, reliability, and meaningfulness. All the information regarding the project will be on hand and assessed according to the planned activities. The output of each step will be tested according to the expected result to ensure its reliability

### 1.2.7. Motivational Feasibility:

No great success can be achieved without motivation. Our team is highly motivated regarding this project and has very good problem-solving skills. Our project prompts to assign the tasks to every member of the group. Our mentor is skill full and motivated.

### 1.2.8. Legal & Ethical Feasibility

Our Project do not violate any legality or any human rights. We own to develop Second hand Book Store both legally and ethically. Data of public will be confidential. So it is Legally & Ethically feasible to complete this project.

## 1.3. Product Scope:

Second hand Book Store are interactive displays, where a customer can interact with the product on screen. For displaying the ad Second hand Book Store use interactive digital touchscreen displays in which you can view its design, Applications, Features, and Other related information. The **objective** of this project is to display the electronic and other products digitally and to reduce the display cost and all other cost etc. The user will no longer wait for the shopkeeper to guide him about products and its features. Customers can easily explore the products, check its features and prices by themselves. They can find all in one platform. They will get a secure platform that they can trust and get help in case of emergency. Thus, this Second hand Book Store will have a huge scope in the near future.

In smart system following operations will be performed:

* It will display pictures, features and price of products.
* The record of the products will be saved to remind the history of inventory.
* Show availability and unavailability of products.
* User will go through the display and see products by itself.

## 1.4. Project Costing

### 1.4.1. Project Cost Estimation by Function Point Analysis:

![Graphical user interface, application

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will use functional point analysis to estimate the cost of project. FP calculators involve Domain Characteristics Table and Complexity Adjustment Table. Domain Characteristics Table involves certain measurement parameters, their values, weighing factors and Complexity Adjustment Tables involve some queries and optional scale to estimate the cost of the project.

**1.4.2. Project Cost Estimation by using COCOMO’81 (Constructive Cost Model):**

The Constructive Cost Model (**COCOMO**) is a procedural software cost estimation model developed by Barry W. Boehm. The model parameters are derived from fitting a regression formula using data from historical projects.

COCOMO 81 model estimate for the project cost by nominal effort involving set of multipliers and development time for that project by selecting its mode.

For project mode selection, we have to look for table that contain certain features, and all three modes that are organic, semi-detached and embedded. Mode will be selected according to scaling done for these features. These estimation for mode selection are given below:

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Organic | Semi detached | Embedded |
| Organizational understanding of product objectives | * Thorough | Considerable | General |
| Experience in working with related software systems | Extensive | Considerable | * Moderate |
| Need for software conformance with pre-established requirements | Basic | Considerable | * Full |
| Need for software conformance with external interface specifications. | Basic | Considerable | * Full |
| Concurrent development of associated new hardware and operational procedures | * Some | Moderate | Extensive |
| Need for innovative data processing architectures, algorithms | * Minimal | Some | Considerable |
| Premium on early completion | Low | * Medium | High |
| Product Size Range | * <50 KDSI | <300 KDSI | All sizes |

As answer to most questions lie in **organic mode**, so we will select this mode for our project whose value is:

1. **Organic mode:**

**Nominal Effort =3.2 (KDSI) ^1.05\*M**

**TDEV = 2.5 (Effort) ^0.38**

We will do product’s rating to determine set of effort **multipliers** on a set of 15 cost driver attributes:

1. **Value of multipliers M:**

= 1.40\*1.16\*1.15\*1.00\*1.00\*0.87\*1.15\*

1.00\*1.00\*1.00\*1.00\*1.00\*1.00\*1.00\*1.10

= 2.05

1. **Value of KDSI:**

PHP, CSS, HTML, JAVASCRIPT and SQL are the languages used in our project. Average source lines of code (SLOC) of the languages ranges as follows:

HTML/CSS = 34

ASP.NET Core = 67

JAVASCRIPT = 47

SQL = 21

Our project estimated functional points are 25 for HTML/CSS, 20 for PHP, 20 for JAVASCRIPT and 10 for SQL.

Now, we will find total SLOC for our project by multiplying estimated functional points to average SLOC for every language and then adding them:

HTML/CSS = 34 \* 25 = 850

ASP.NET Core = 67 \* 20 = 1340

JAVASCRIPT = 47 \* 20 = 940

SQL = 21 \* 10 = 210

By adding all, total will be equal to 3340.

1. **Converting SLOC to KDSI:**

To convert source lines of code (SLOC) to KDSI, we will divide previous total value of SLOC with 1000. It will be equal to

KDSI = 3340 divided by 1000 gives 3.34

KDSI = 3.34 KLOC

Now, putting values in organic mode gives;

**Nominal Effort = 3.2 (KDSI) ^1.05\*M**

**By putting values of KDSI and multipliers “M”**

**Nominal Effort = 3.2 (3.34) ^1.05\*2.05 = 23 person-month**

**Development time= TDEV = 2.5 (Effort) ^0.38**

**TDEV = 3.0 (23) ^0.38 = 11 months**

1. **Total cost for project:**

Cost could be found by multiplying total effort with development time. Suppose we have 23 persons doing project development for 8 months and per month cost for one person is Rs. 2000/- , which is just estimation.Then total cost for the project will be equal to

**Total cost = 23 \* 8 \* 2000**

**Rs = 368000/-**

### 1.4.3. Activity Based Costing:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.** | **Activities** | **Resources** | **Cost Rate** | **Duration** |
| **1** | Website Design, Layout, Structure | Bootstrap | 5K | 4 |
| **2** | Front End | HTML,CSS, JavaScript | 5K | 1 |
| **3** | Development of website components | Bootstrap | Free | 8 |
| **4** | Back End | XAMPP | 5K | 7 |
| **5** | Database Connectivity | MySQL | Free | 5 |
| **6** | Integration | XAMPP | Free | 5 |
| **7** | Testing | XAMPP | 5K | 4 |
| **8** | Documentation | No Resources | Free | 1 |

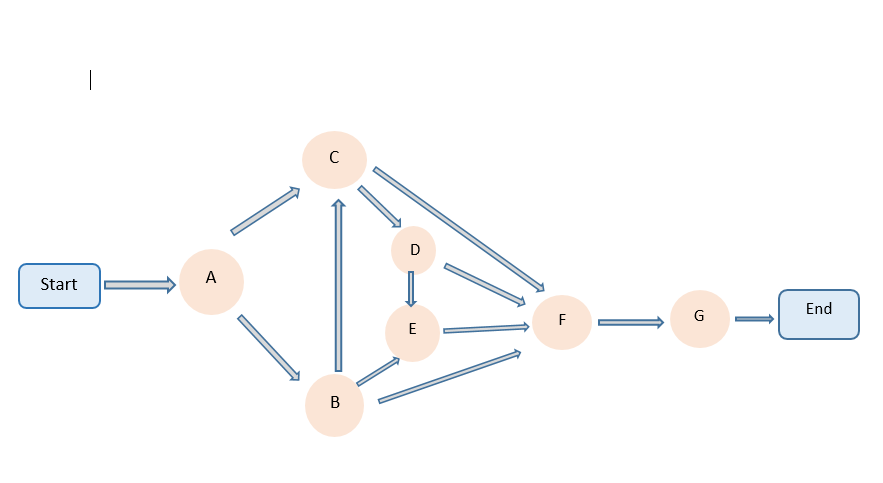
Note: All these costs related to use license software’s. These costs are for Licenses

## Task Dependency Table

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Task Name** | **Dependency** | **Duration (Weeks)** |
| A | Requirement Gathering | none | 3 Weeks |
| B | Website Design, Layout, Structure | A | 4 week |
| C | Development Of Modules | A,B | 8 weeks |
| D | Back End | C | 6 Weeks |
| E | Database Connectivity | B,D | 5 Weeks |
| F | Integration | B,C,D,E | 6 Weeks |
| G | Testing | F | 3 Weeks |

## 

## CPM - Critical Path Method



Network Diagram for the above-mentioned activities

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Activity** | **Duration** | **ES** | **EF** | **LS** | **LF** | **Slack Time (ES-LS)** | **Critical Path** |
| A | 3 | 0 | 3 | 0 | 3 | 0 | Yes |
| B | 4 | 3 | 7 | 3 | 7 | 0 | Yes |
| C | 8 | 7 | 15 | 7 | 15 | 0 | Yes |
| D | 6 | 15 | 21 | 15 | 21 | 0 | Yes |
| E | 5 | 21 | 26 | 21 | 26 | 0 | Yes |
| F | 6 | 26 | 32 | 26 | 32 | 0 | Yes |
| G | 3 | 32 | 35 | 32 | 35 | 0 | Yes |

Possible paths are:

A-C-F-G=3+8+6+3=20

A-C-D-F-G=3+8+6+6+3=26

A-B-C-F-G=3+4+8+6+3=24

A-B-C-D-F-G=3+4+8+6+6+3=30

A-B-C-D-E-F-G=3+4+8+6+5+6=3=35

A-B-E-F-G=3+4+5+6+3=21

A-B-F-G=3+4+6+3=16

A-C-D-E-F-5=3+8+6+5+6+3=31

**The critical path is the earliest time by which project ends and it is the longest path amongst all, so critical path of our project is:**

A, B, C, D, E, F, G

## 1.7. Gantt Chart:

## 1.8. Introduction to Team Members and their skill set:

|  |  |  |
| --- | --- | --- |
| Members Name | Skill Set | Tasks |
| Saba Anwar | Back-End, Testing, Documentation | Development of Module, Back-End Development, Testing,  Implementation of Website |
| Tooba | Front-End, Documentation,  Testing | Website Design, Structure and Layout**,** Login and Testing. |
| Maham Munir and Saman Naeem | Back-End, Testing, Database, Documentation | Back-End Development, Implementation of Website, Project Testing, Database Implementation Module. |

## 1.9. Task and Member Assignment Table

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Duration (days) | Dependencies | Members |
| T1 | 21 |  | M1,M2,M3 |
| T2 | 28 | T1 | M2,M4 |
| T3 | 56 | T1, T2 | M1,M2,M3,M4 |
| T4 | 42 | T3 | M1 |
| T5 | 35 | T2, T4 | M3,M4 |
| T6 | 42 | T2 ,T3, T4,T5 | M1,M2,M3 |
| T7 | 21 | T6 | M1,M2,M3,M4 |

## 1.10. Tools and Technology with reasoning:

**Technology and Languages**

* **Bootstrap**

To design website layout and structure, HTML, CSS, and JavaScript these languages will be used

* **PHP**

For back end coding php will be used

* **Java**

For back end coding in android studio java will be used

**Application Tools**

* **XAMPP:**

For coding Php language Visual Studio will be used

* **Android studio**

For coding in java android studio is used.

* **API**

API is used to get response from server.

* **Web Server**

Web server is required for responding to the requests of clients

**Database**

* **MySQL**

MySQL will be used for Database Design and Development

**Documentation**

* **Microsoft Visio**

Microsoft Visio is used for Project Design and Diagrams

* **Microsoft word:**

Microsoft word is used for designing documentation

### 1.11. Vision Document:

The vision of our product is to develop new technology and introduce it to the industry so that people can be benefited. Second hand Book Store is a centrally controlled, content distribution platform by which user can easily check the feature and price of products by himself and owner can maintain their inventory record. It can reduce the cost of store as there will be less need of salesman. Not all people are confident enough to tell salesman what they need so it will be easy for them to find what they need in an easy way. The vision of our product is:

|  |  |
| --- | --- |
| 1 | To help and educate the customer about products feature and prices etc. |
| 2 | In case of absence of salesman, the user will explore the products by himself. |
| 3 | To reduce the display cost and other costs etc. |
| 4 | Owners can maintain their inventory records. |
| 5 | Through mobile app user can get information about available products. |

### 1.12. Risk List:

Following are the risks found while developing this system:

* As system is heavy, so it is difficult to make it responsive.
* One time investment is needed to purchase digital screen.
* There could be many tools and technologies issue while development.
* Database connectivity and responding to queries asked to fetch data from database could also be difficult.
* The end users may not have internet facility all the time.

## 1.13. Project Features:

* It will display pictures, features and price of products.
* The record of the products will be saved to remind the history of inventory.
* Show availability and unavailability of products.
* User will go through the display and see products by itself.
* Admin can make any change in the displayed content when needed
* When not in use admin can set advertisement ads or themes to attract customers.

**Chapter 2: Software Requirement Specification (For Object Oriented Approach)**

***2.1 Introduction:***

Books are very essential for each and every one of us in order to increase our knowledge. An online book store is a virtual store on the internet where customers can browse the catalog and select books of interest. At checkout time, items in the e-library will be presented as an order. At that time, more information will be needed to complete the request. Usually, the customer will be asked to fill online form. An e-mail notification is sent to the customer as soon as the order is placed.

This project intends different types of forms with many types of books like story, drama, romance, history, adventures, etc. it can manage studying of books online, customers can choose many types of books categories etc. Here, the user may select desired book and view its price. The user may even search for specific books on the website. Once the user selects a book, he / she then has to fill in a form and the book is provided for the user.

A customer can login to his / her account, can browse any book of his / her own interest, and can view prices and other details of selected book, place his/her order and can select from payment options. User needs to register on the site before checking out so that, he / she can login using same ID and Password next time. User can select any payment option that he / she wish to, like Fast Cash, Credit / Debit card or Cash on delivery.

**2.1.1. System Specifications:**

Before the digital revolution, huge budgets were required to display the products and also required many salesmen. But with the help of a “SHBS” we can easily show data, reduce display cost and salesman, and also show photographs, videos, and product features. A strategically placed electronic display, conveying appropriate and informative content, can help your customers to check the feature of products instead they wait in line to talk to your staff. This project is designed to inform and educate the customer about products. Second hand Book Store be the solution to connect with customers and increase sales. Your own small form touch display could grab the customer’s attention and draw them deeper into the shopping experience.

**2.1.2. Existing System**

* Optisigns
* Rise Vision
* Raydiant
* Enplug

**2.1.3. Scope of the System**

Second hand Book Store happens to be a sub-segment of signage. Technologies, like LCD, LED, and projection, are used in Second hand Book Store to display digital content such as images, video, streaming media, and information. Digital billboards are used in public spaces, transportation systems, museums, stadiums, retail stores, hotels, restaurants, and corporate buildings, etc., for way finding, exhibitions, marketing, and outdoor advertising.

Second hand Book Store systems eliminate frequent compatibility and interoperability issues between media players and displays. Furthermore, Second hand Book Store boards are being extensively used as arrival and departure boards in airports known as Flight Information Display Systems (FIDS).

Along with all these factors, enhancement of brand awareness and perception among the global leaders is expected to drive the growth of the market.

**Context level data flow diagram**

**Diagram

Description automatically generated**

**2.1.4. Summary of Requirements (Initial Requirements)**

The purposed system must fulfill following requirements as follow:

**2.1.4.1. Login**

Users will login to the system by giving user id, password. User of the system will have access to change and modify password by itself.

**2.1.4.2. Dashboard**

Display signage will contain overall products information. It will contain information of brands and their products, information about any sale on items, and time period of specific sale. Also the price, product availability sign, its specifications will presented here.

**2.1.4.3. Product Information**

It will contain information of a specific product. For example, product id, Name, price, location of product, features. All the products will be added by the admin.

**2.1.4.4. Product Category**

It will contain information of category of product for example it belongs to beverages, bakery, dairy, cleaners, paper goods or any other category.

**2.1.4.5. Brands**

It will contain information about brands whose products are available in shop. It will contain list of items of specific brands.

**2.1.4.6. Availability/unavailability of products**

Detail of the products either they are available at that time or not.

**2.1.5. Identifying External Entities:**

The Identification of External Interfaces is done in two phases.

**Over Specify Entities from Abstract:**

Based on the Abstract, we identify the following entities from the display signage.

* Admin
* User
* Login
* Items/products
* Advertisements
* Sales
* Brands

**Perform Refinement:**

After over specifying the entities, you must refine them on the basis of your Business Logic.

* Admin
* User
* Login
* Items/products
* Brands

**2.1.4. Capture "shall" Statements:**

|  |  |
| --- | --- |
| **Para #** | **Initial Requirements** |
| 1.0 | A user “shall” be able to register himself to system. |
| 1.0 | The system “shall” provide sign in to user. |
| 1.0 | The system “shall” provide sign out to user. |
| 1.0 | Customer “shall” be able to place and cancel online order |
| 1.0 | System “shall” be able to display cart Status to user. |
| 1.0 | Customer “shall” be able to buy products online by placing his order. |
| 2.0 | Customer “shall” be able to place order and see its status. |
| 2.0 | Administration “shall” be able to manage and update Products info. |
| 2.0 | Administration “shall” be able to create and update Products categories. |
| 2.0 | Customer “shall” be able to track products Location |
| 3.0 | Customer “shall” be able to cart items within shop. |
| 3.0 | Administration “shall” be able to manage inventory. |

**2.1.5. Allocate Requirements:**

|  |  |  |
| --- | --- | --- |
| **Para #** | **Initial Requirements** | **Use Case Name** |
| 1.0 | A user “shall” be able to register himself to system. | UC\_Register |
| 1.0 | The system “shall” provide sign in to user. | UC\_Sign-In |
| 1.0 | The system “shall” provide sign out to user. | UC\_Sign-out |
| 1.0 | Customer “shall” be able to place and cancel online order | UC\_Online Order |
| 1.0 | System “shall” be able to display cart Status. | UC\_Cart-Status |
| 1.0 | Customer “shall” be able to buy products online by placing his order. | UC\_Online Store |
| 2.0 | Customer “shall” be able to place order and see its status. | UC\_Order-Status |
| 2.0 | Administration “shall” be able to manage and update Products info. | UC\_Product-info |
| 2.0 | Administration “shall” be able to create and update Products categories. | UC\_Manage-Products-Category |
| 3.0 | Customer “shall” be able to track products Location | UC\_Track-Location |
| 3.0 | Customer “shall” be able to cart items within shop. | UC\_Cart-item |
| 3.0 | Administration “shall” be able to manage inventory. | UC\_Manage-Inventory. |

**2.1.6. Prioritize Requirements:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Rank** | **Para #** | **Initial Requirements** | **Use Case Name** | **Use Case No** |
| Highest | 1.0 | A user “shall” be able to register himself to system. | UC\_Register | UC\_1 |
| Highest | 1.0 | The system “shall” provide sign in to user. | UC\_Sign-In | UC\_2 |
| Highest | 1.0 | The system “shall” provide sign out to user. | UC\_Sign-out | UC\_3 |
| Highest | 1.0 | Customer “shall” be able to place and cancel online order | UC\_Online Order | UC\_4 |
| Highest | 1.0 | System “shall” be able to display cart Status to user. | UC\_Cart-Status | UC\_5 |
| Highest | 1.0 | Customer “shall” be able to buy products online by placing his order. | UC\_Online Store | UC\_6 |
| Medium | 2.0 | Customer “shall” be able to place order and see its status. | UC\_Order-Status | UC\_7 |
| Medium | 2.0 | Administration “shall” be able to manage and update Products info. | UC\_Product-info | UC\_8 |
| Medium | 2.0 | Administration “shall” be able to create and update Products categories. | UC\_Manage-Products-Category | UC\_9 |
| Lowest | 2.0 | Customer “shall” be able to track products Location | UC\_Track-Location | UC\_10 |
| Lowest | 3.0 | Customer “shall” be able to cart items within shop. | UC\_Cart-item | UC\_11 |
| Lowest | 3.0 | Administration “shall” be able to manage inventory. | UC\_Manage-Inventory. | UC\_12 |

**2.1.7. Requirements Traceability Matrix:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Build** | **Rank** | **Para #** | **Initial Requirements** | **Use Case Name** | **Use Case No** | **Category** |
| B1 | Highest | 1.0 | A user “shall” be able to register himself to system. | UC\_Register | UC\_1 | Bussiness |
| B1 | Highest | 1.0 | The system “shall” provide sign in to user. | UC\_Sign-In | UC\_2 | Bussiness |
| B1 | Highest | 1.0 | The system “shall” provide sign out to user. | UC\_Sign-out | UC\_3 | Bussiness |
| B1 | Highest | 1.0 | Customer “shall” be able to place and cancel online order | UC\_Online Order | UC\_4 | Bussiness |
| B1 | Highest | 1.0 | System “shall” be able to display cart Status to user. | UC\_Cart-Status | UC\_5 | Bussiness |
| B1 | Highest | 1.0 | Customer “shall” be able to buy products online by placing his order. | UC\_Online Store | UC\_6 | Bussiness |
| B1 | Medium | 2.0 | Customer “shall” be able to place order and see its status. | UC\_Order-Status | UC\_7 | Bussiness |
| B1 | Medium | 2.0 | Administration “shall” be able to manage and update Products info. | UC\_Product-Info | UC\_8 | Bussiness |
| B1 | Medium | 2.0 | Administration “shall” be able to create and update Products categories. | UC\_Manage-Products-Category | UC\_9 | Bussiness |
| B1 | Lowest | 2.0 | Customer “shall” be able to track products Location | UC\_Track-Location | UC\_10 | Bussiness |
| B1 | Lowest | 3.0 | Customer “shall” be able to cart items within shop. | UC\_Cart-item | UC\_11 | Bussiness |
| B1 | Lowest | 3.0 | Administration “shall” be able to manage inventory. | UC\_Manage-Inventory. | UC\_12 | Bussiness |

**2.2 Explanation**

**2.2.1 High Level Use Case Diagram:**

**Diagram

Description automatically generated**

**2.2.3. Analysis Level Use Case Diagram:**

Diagram

Description automatically generated

**2.2.4. Use Case Description**

2.1.1. Use case Description

**Table 1: Use Case- User Registration**

|  |  |
| --- | --- |
| **ID:** | **UC\_1** |
| **Title:** | **UC\_ User Registration** |
| Description: | This module is specified for the users who are not registered to the application, and want to access additional features and functions. Here, at the time of registration, the user profile is created |
| Primary Actor: | User |
| Preconditions: | User open website and click on signup page. |
| Main Success Scenario: | 1. User enter his/her User Name, Gender, User Id, Password, Confirm Password, Date of birth, Email, Address, Contact No. 2. When the user inputs data into the fields and submits the form fields like email\_id, password and mobile number are validated. 3. client machine and an activation link is sent to user’s mail account 4. And when user clicks on an activation link, his/her account is created and data is stored in user’s table. |
| Alternative Flow: | 1. User already register 2. User try wrong user name or password |
| Post-condition: | 1. Appropriate message will be displayed on the user’s screen. 2. User’s account is opened. |

**Table 2: Use Case- Sign In**

|  |  |
| --- | --- |
| **ID:** | **UC\_2** |
| **Title:** | **UC\_ Sign-In** |
| Description: | User will sign in to system. |
| Primary Actor: | User |
| Preconditions: | User is already registered |
| Main Success Scenario: | 1. User will enter the username and password. 2. System will verify the login |
| Alternative Flow: | 1. User login to his/her account 2. User entered wrong user name or password 3. User cannot login on system. |
| Post-condition: | Appropriate message will be displayed on the user’s screen. |

**Table 3: Use Case- Sign Out**

|  |  |
| --- | --- |
| **ID:** | **UC\_3** |
| **Title:** | **UC\_ Sign-out** |
| Description: | User will sign out to system. |
| Primary Actor: | User |
| Preconditions: | User is already signed in |
| Main Success Scenario: | 1. User will logout. 2. System will verify the logout |
| Alternative Flow: | 1. User logout to his/her account 2. User shutdown system/website |
| Post-condition: | 1. Appropriate message will be displayed on the user’s screen. 2. User’s account closed |

**Table 4: Use Case-Online order**

|  |  |
| --- | --- |
| **ID:** | **UC\_4** |
| **Title:** | **UC\_ online order** |
| Description: | The user will ordered products online which are available on our Website. |
| Primary Actor: | User |
| Preconditions: | 1. User logged in on app. |
| Main Success Scenario: | 1. Clicks products module. 2. Click on category. 3. Search for products 4. Check the available products. 5. Enter the details about products 6. Give information about himself 7. Click submit |
| Alternative Flow: | User cannot login on system.  User internet is not working. |
| Post-condition: | User will get verification message. |

**Table 5: Use Case-Cart Status**

|  |  |
| --- | --- |
| **ID:** | **UC\_5** |
| **Title:** | **UC\_ Cart-Status** |
| Description: | The user will see items present in cart |
| Primary Actor: | User |
| Preconditions: | User added item in cart. |
| Main Success Scenario: | Use can check its items to place order. |
| Alternative Flow: | User have no items in cart |
| Post-condition: | User will get verification message for order. |

**Table 6: Use Case-online store**

|  |  |
| --- | --- |
| **ID:** | **UC\_6** |
| **Title:** | **UC\_ online store** |
| Description: | The user will ordered products online which are available on our Website. |
| Primary Actor: | User |
| Preconditions: | 1. User logged in on website/Mobile App. |
| Main Success Scenario: | 1. Clicks products module. 2. Click on category. 3. Search for products 4. Check the available products. 5. Enter the details about products 6. Give information about himself 7. Click submit |
| Alternative Flow: | User cannot login on system.  User internet is not working. |
| Post-condition: | User will get verification message. |

**Table 7: Use Case-Order Status**

|  |  |
| --- | --- |
| **ID:** | **UC\_7** |
| **Title:** | **UC\_** Order-Status |
| Description: | The user will check its order progress |
| Primary Actor: | User |
| Preconditions: | User have placed order. |
| Main Success Scenario: | Order is placed and on its way to processed |
| Alternative Flow: | 1. Order cannot be placed 2. Order cannot be accepted due to invalid information |
| Post-condition: | User will get items ordered. |

**Table 8: Use Case Products Info**

|  |  |
| --- | --- |
| **ID:** | **UC\_8** |
| **Title:** | **UC –** Product-Info |
| Description: | When administrator performs an operation like products addition the respective product are added in the database; hence, the whole product can be added. |
| Primary Actor: | Admin |
| Preconditions: | Admin logged on website as admin. |
| Main Success Scenario: | 1. Admin open product module. 2. Click on update or add product option. 3. product will be added or updated |
| Alternative Flow: | admin cannot login on admin account  Admin internet not working |
| Post-condition: | product delete or update successfully |

**Table 9: Use Case Products Category**

|  |  |
| --- | --- |
| **ID:** | **UC\_9** |
| **Title:** | **UC –** Manage**-**Products-Category |
| Description: | When administrator performs an operation like managing product’s categories |
| Primary Actor: | Admin |
| Preconditions: | Admin logged on website as admin. |
| Main Success Scenario: | 1. Admin open product module. 2. Click on categories or add product option. 3. product will be added or updated in respective category |
| Alternative Flow: | admin cannot login on admin account  Admin internet not working |
| Post-condition: | Categories and products delete or update successfully |

**Table 10: Use Case-Track products**

|  |  |
| --- | --- |
| **ID:** | **UC\_10** |
| **Title:** | **UC\_ Track-Location** |
| Description: | The user “shall” get all types of products which are available on our Website and can search and Track location for specific products. |
| Primary Actor: | User |
| Preconditions: | 1. Visit the website |
| Main Success Scenario: | 1. Clicks products module. 2. Search for products 3. Track products |
| Alternative Flow: | User cannot have knowledge of how to use system |
| Post-condition: | User will get the location of product |

**Table 11: Use Case-Cart Item**

|  |  |
| --- | --- |
| **ID:** | **UC\_11** |
| **Title:** | **UC\_ Cart-Item** |
| Description: | The user will add items in cart |
| Primary Actor: | User |
| Preconditions: | User have logged in to system. |
| Main Success Scenario: | Use can add items to place order. |
| Alternative Flow: | 1. User have no items in cart 2. Cart is not working |
| Post-condition: | User can add item and place order. |

**Table 12: Use Case Products Inventory**

|  |  |
| --- | --- |
| **ID:** | **UC\_12** |
| **Title:** | **UC –** Manage**-**Inventory |
| Description: | Administrator performs an operation like managing inventory system |
| Primary Actor: | Admin |
| Preconditions: | Admin logged on website as admin. |
| Main Success Scenario: | Admin can update inventory |
| Alternative Flow: | admin cannot login on admin account  Admin internet not working |
| Post-condition: | Inventory updated successfully |

# Chapter 3: Design Document

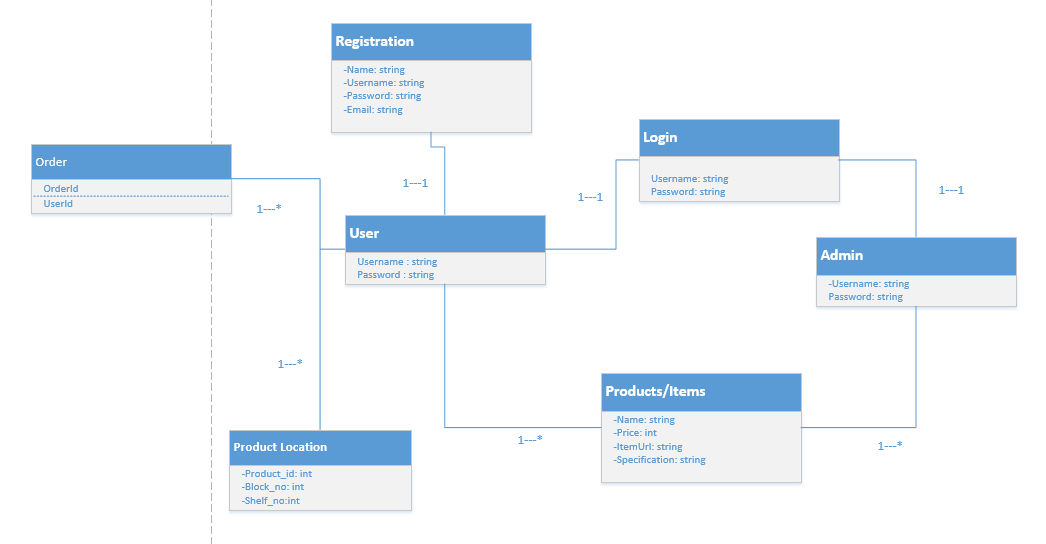
## Introduction

Third deliverable is all about the software design. So, we understand the current situation of the problem domain. Now, we are ready to strive for a solution for the problem domain by using object-oriented approach.

1. Domain Model
2. System Sequence Diagram
3. Sequence Diagram
4. Collaboration Diagram
5. Design Class Diagram
6. State Transition Diagram
7. Data Model

## 

## Domain Model



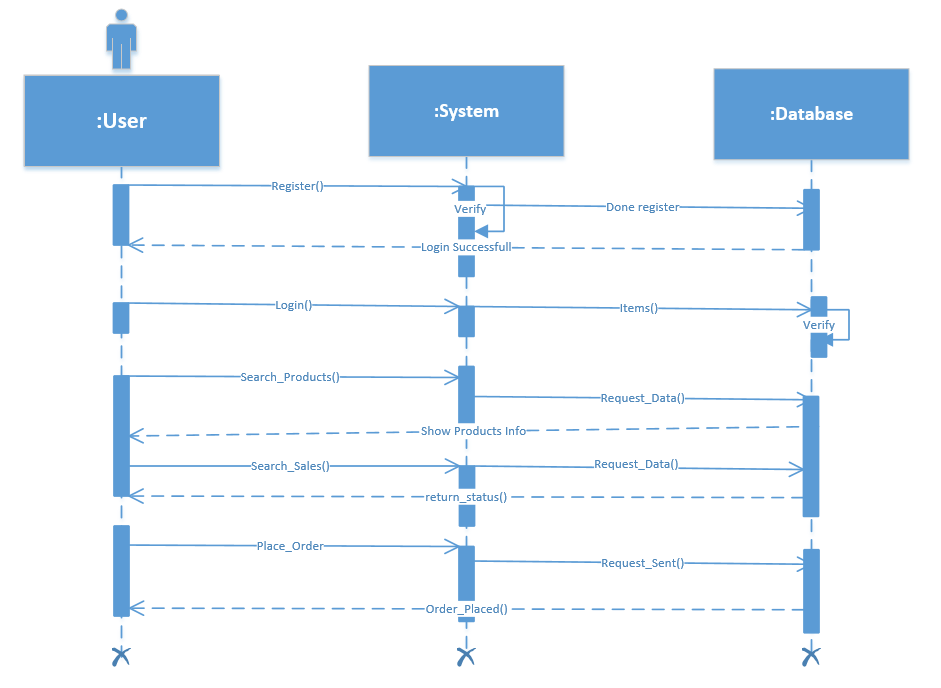
## 

## Admin Sequence Diagram

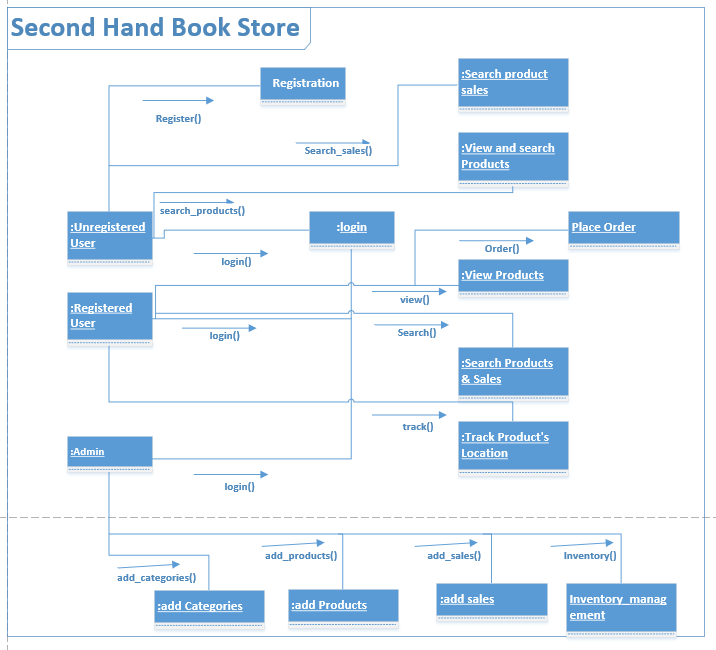
Chart

Description automatically generated

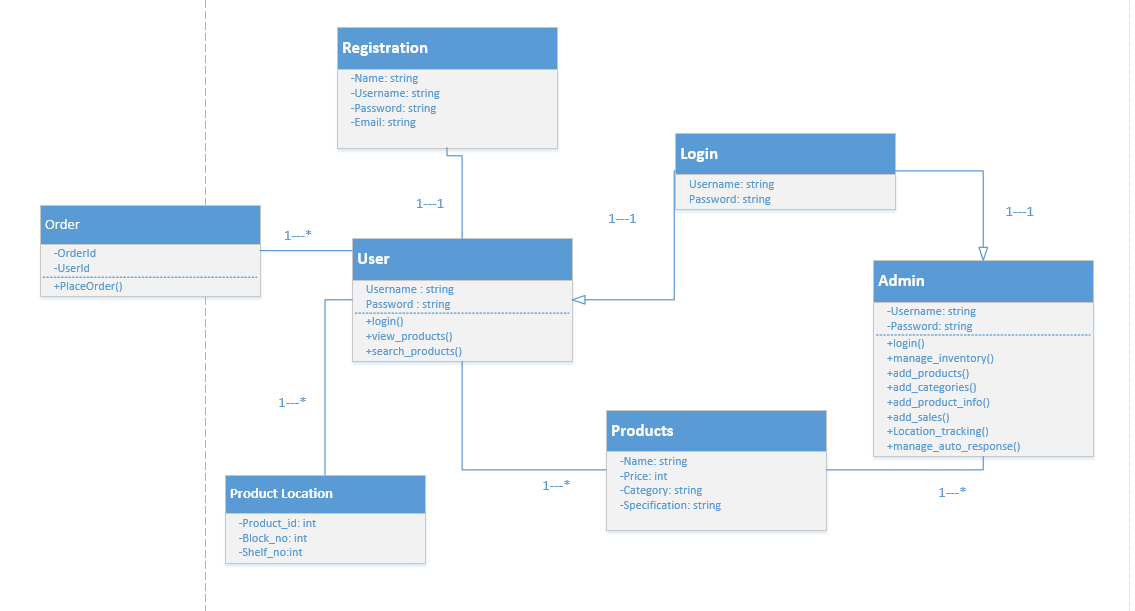
## User Sequence Diagram



## Collaboration Diagram

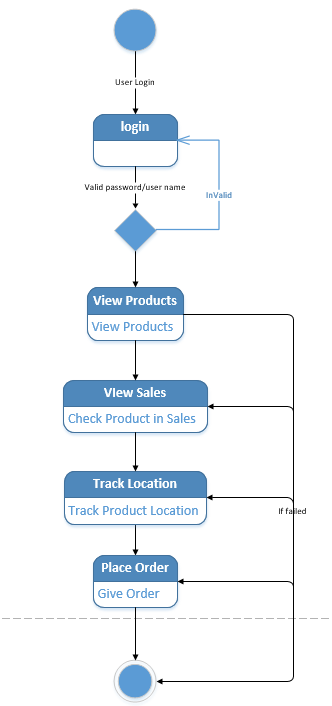


## Design Class Diagram

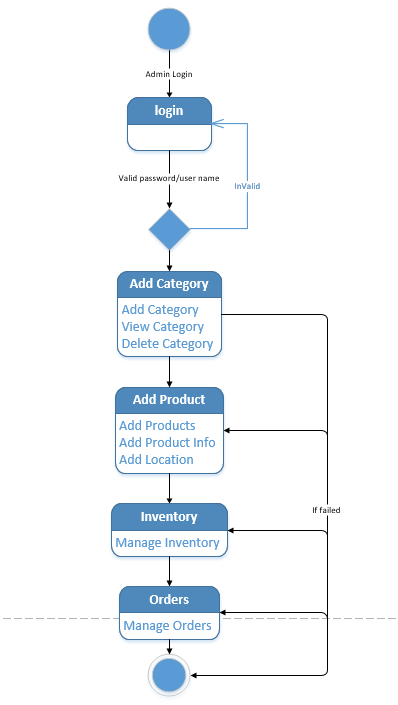


## 3.7. State Chart Diagram

* **User**

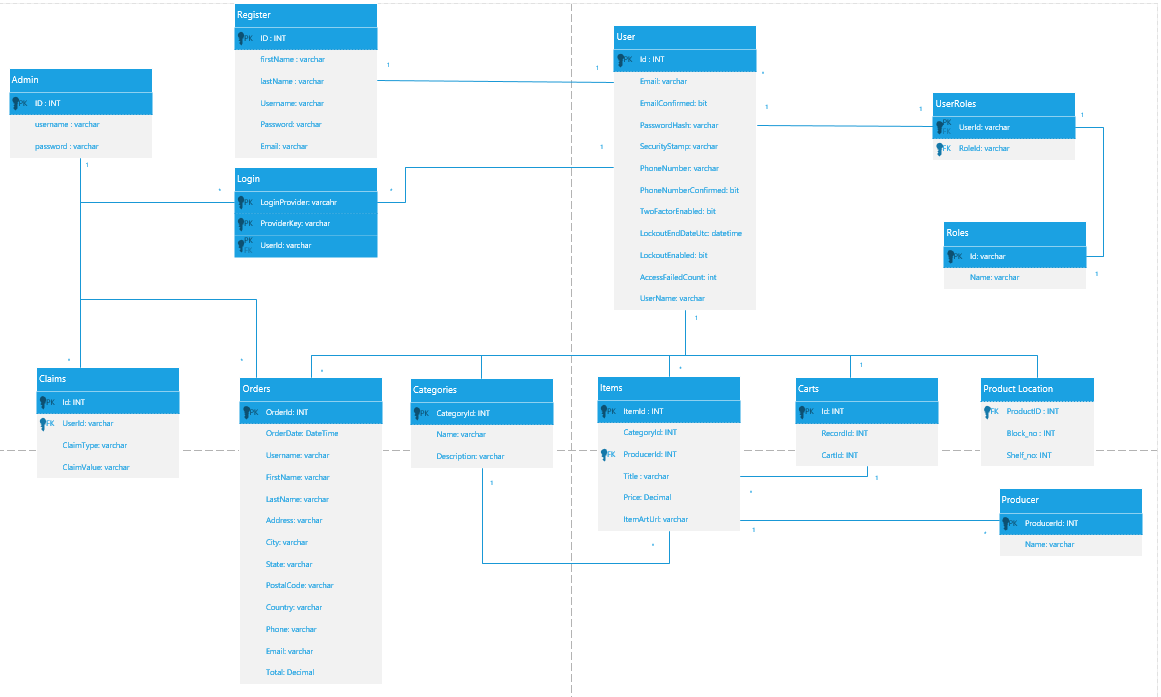


* **Admin**

****

## 3.8. Data Model

The data model is a subset of the implementation model, which describes the logical and physical representation of persistent data in the system.



# Chapter 4: User Interface Design

## 4.1. Introduction

A user interface design consists of three main parts:

Page elements should be visualized on paper before building them in the computer. Just as you draw a site map to plan the site, use cartoons and storyboards to begin blocking out the site’s appearance and navigational scheme. Following are the contents to be added in user interface design:

1. Site maps
2. Storyboards
3. Navigational maps
4. Traceability Matrix

## 4.2. Site Maps

A site map's main benefit is to give users an overview of the site's areas in a single glance by dedicating an entire page to a visualization of the information architecture. If designed well, this overview can include several levels of hierarchy, and yet not be so big that users lose their ability to grasp the map as a whole. A site map is a graphical representation of the site's content. It doesn't usually have as much detailed information as the index has.

As web sites get more complicated, an index or site map is going to become more and more valuable and essential to the navigation of a good site.

**Second Hand Book Store Website:**

**Second hand Book Store Administration View:**

## 4.3. Story boards

A storyboard is a sequence of single images, each of which represents a distinct event or narrative. It is also a visual representation of the script illustrating the interaction between the user and the machine. It can also be imagined as a film in visual-outline form.

A storyboard can be used in two ways. It describes the task, which are a series of images showing the user, environment and the machine. It also describes the interface, which represent series of screen images indicating the user’s representation and the computer’s response and work out interaction details. It also shows interaction sequence at a glance and helps develop usage scenarios to help develop tools & tasks. Following is the view of login to be used for authentication of the product:

# S1: Login

S2: Username

S3: Password

T1:

T2:

B1: **Submit**

S1: static button 1

S2: static button 2

S3: static button 3

T1: text box 1

T2: text box 2

B1: button

**Homepage:**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, application

Description automatically generated**

**Graphical user interface, website

Description automatically generated**

**Graphical user interface, text

Description automatically generated**

**Graphical user interface, application, PowerPoint

Description automatically generated**

**Graphical user interface, application

Description automatically generated**

**Graphical user interface, application, Word

Description automatically generated**

**Graphical user interface, application, Word

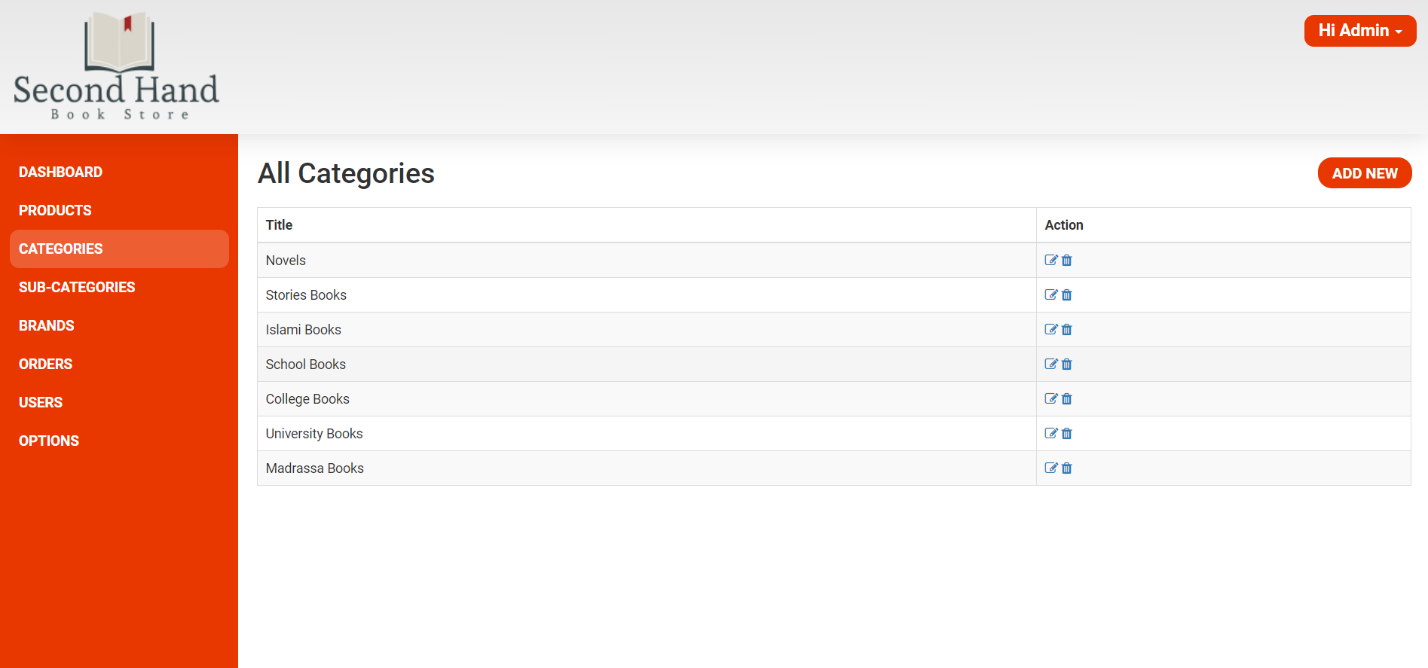
Description automatically generated**

**Graphical user interface, application, email

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

****

## 4.4. Navigational maps:

The next step is of navigational maps. In these maps, the storyboards are used as an input. The different display buttons or action buttons show the navigation from one screen to the other. In other words when one action button is pressed, it would lead to other screens. This path and navigation would be shown.

**SHBS Website:**

## 4.5 Trace-ability Matrix

Following columns are involved in traceability matrix:

**Features:**

List of system features is as follows:

* Information Collection
* Information Storage
* Information Management
* Accessibility

**Use Case ID:**

Use case ID’s for easy lookup are as follows:

* Information Collection : UC\_1, UC\_11
* Information Storage : UC\_4, UC\_12
* Information Management : UC\_5, UC\_7, UC\_8, UC\_9, UC\_10, UC\_13
* Accessibility : UC\_2

**User Interface ID:**

Identified none

**Priority:**

* UC\_1 : P1
* UC\_11 : P1
* UC\_4 : P1
* UC\_12 : P2
* UC\_5 : P2
* UC\_7 : P2
* UC\_8 : P2
* UC\_9 : P2
* UC\_10 : P1
* UC\_13 : P3
* UC\_2 : P2

**Use Case Cross Ref:**

* Information Collection: registration, keep-salary-record
* Information Storage: place order.
* Information Management: UC-Display-Order Status, UC-Record-Inventory, UC-Know-service Status, UC-Update-Product Status, Generate profit/loss report,
* Accessibility: user sign in.

**Database Table ID:**

* Registration: RG-id
* Order: O-id
* Inventory: IR-id
* Service: P-id
* Report: RP-id
* Login: L-id

**Elaborated Use Case ID:**

* Registration: User should be registered before entering the system.
* Order: Customer is able to place online order.
* Inventory: Sale, Purchase and its report will be managed by admin.
* Service: service will be placed in stock through which customer can buy them.
* Login: user will provide detail like username, password etc.

**Dependent Classes:**

* Pay cash depend upon place order.
* Login depends upon registration.
* Logout depends upon login..
* Generate profit/loss report depends upon record inventory.

# Chapter 5: Software Testing

**5.1 Introduction**

Software testing is intent of finding bugs by executing a program or application. It could be described as the process of verifying and validating, that software meets the technical requirements according to its design. This deliverable is based on the IEEE standard of software testing i.e. IEEE SOFTWARE TEST DOCUMENTATION Std 829-1998. This standard describes a set of basic test documents that are associated with the dynamic aspects of software testing. Following are standard artifacts, which are included in this deliverable:

1. Test Plan
2. Test Design Specification
3. Test Case Specification
4. Test Procedure Specification
5. Test Log
6. Test Incident Report
7. Test Summary Report

## 5.2. Test plan

### 5.2.1. Purpose

To prescribe the scope, approach, resources, and schedule of the testing activities. To identify the items being tested, the features to be tested, the testing tasks to be performed, the personnel responsible for each task, and the risks associated with this plan.

### 5.2.2. Outline

A test plan shall have the following structure:

1. Test plan identifier
2. Introduction
3. Test items
4. Features to be tested
5. Features not to be tested
6. Approach
7. Item pass/fail criteria
8. Suspension criteria and resumption requirements
9. Test deliverables
10. Testing tasks
11. Environmental needs
12. Responsibilities
13. Staffing and training needs
14. Schedule
15. Risks and contingencies
16. Approvals
    * + 1. **Test plan identifier**

**AKA\_APF01**

* + - 1. **Introduction**

The goal of this document is to develop a test plan for Second hand Book Store and defines all procedures and activities required to prepare for testing of functions of the system which are specified in Vision document. The objective of the test plan are to define the activities to perform testing, define test deliverable documents and to identify the various risks and contingencies involved in testing.

**5.2.2.3 Test Items**

Test items are functions that provide of the related test plan. What is to be tested include the list of it. This can be defined from application as well as other sources of information or documentation. The information given in it includes configuration requirements and version numbers where it is needed. Test items in our project includes:

* 1.0 -Login : for registered users
* 1.0-Login : for unregistered users
* 1.0-Login : for invalid detail
* 1.0-Login : for empty field
* 1.0-Logout
* 1.0-Registration
* 1.0-Online order
* 2.0 Service request
* 2.0 Know user location
* 2.0 User manual
* 2.0-Generate profit/.loss report

Our project require windows based operating system and run on the Google, opera, internet explorer, Mozilla Firefox or any other browser.

**5.2.2.4 Features to be tested**

The following list describes the features to be tested:

* Login/Log out.
* Registration.
* Online Order Booking.
* Service request
* Know user location
* User manual
* Generate Profit/Loss Report.

**5.2.2.5 Features not to be tested**

Features which are not to be tested in our project are as follows:

* Record inventory.
* Pay cash.
* Display order status.
* Know or update product status.
* Salary record.
* Browser compatibility.

**5.2.2.6. Approach**

Test cases of the system will be made. System testing will be performed by the testers. Approaches used will be: Unit Testing Approach for Login, Parallel Testing Approach for Registration and login as well as Function Testing Approach for User Interface, Sign up etc. Test cases will be checked and executed using the software testing tool “JIRA”. Test cases will be recorded in documentation.

**5.2.2.7. Item pass/fail criteria**

This is most important part of the test plan, where criteria is left over for to be judged either the items or functionality is passed or not. The test process of our system will be completed as soon as, it will be delivered, and processing will be started by the administrative users of the system, say admin. Each item are tested fully and passed testing. System should satisfy all the function and requirements defined and related to vision documentation.

**5.2.2.8. Suspension criteria and resumption requirements**

Testing will be stopped, if the number and type of defect will reach the point where follow on testing will not be preferable. This will lead to the wastage of resources. Conditions those let the page to be stopped, will be checked and acceptable level of defects, that will allow testing to proceed, will also be checked.

**5.2.2.9. Test deliverables**

All recorded errors are expected to be passed by the second test. A “Test Plan Document” and Several “Test Cases” will also be given. Test input data and test output data should be identified as deliverables.

**5.2.2.10 Testing Tasks**

These are the tasks required to prepare for and perform testing. We will do testing of our project using the following steps:

Tasks:

* System Test Plan
  + Prepare
  + Review
  + Rework
  + Baseline
* System Test Cases
  + Prepare
  + Review
  + Rework
  + Baseline
* System Test
  + Perform

**5.2.2.11 Environmental Needs**

No specific needs are required for testing to be get performed. 64-bit Windows operating system and 8.00 GB RAM size will be used. Testing will be done using test cases and will be performed in software testing tool known as JIRA and also documented in this deliverable with certain conditions and pass/fail criteria.

**5.2.2.12. Responsibilities**

Group members are responsible for managing, designing, preparing, executing, checking, and resolving. In addition, group that identified test items will also be responsible. These groups may include the developers, testers, operations staff, user representatives, and administration staff.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tasks** | **Member 1** | **Member 2** | **Member 3** |
| Write test cases | **×** | **×** |  |
| Prepare test plan | **×** |  | **×** |
| Execute test cases |  | **×** | **×** |

**5.2.2.13 Staffing and training needs**

Three members doing this project will perform testing on the underlying system that is “Automation of Pak Fans” using software testing tool. Test cases will be written and their execution will be performed that will reflect the functionality performed by the system, that should be assured and right.

**5.2.2.14 Schedule**

Testing will be performed within 45 days before the software is ready to launch. Related schedule for testing is defined in Gantt chart as one module to be completed within specified time. In defined time, test cases will be written and execution will be performed according to test plan to see for the compatibility between actual and expected result as well as the status and priority of test cases.

**5.2.2.15 Risks and contingencies**

Our project **“Multi fix"** is a web based system that provide automation to underlying company by leaving its manual work. It has no risks in the way of its development. But when the system is deployed it can face some minor risks like system slow down. Software testing tool could also have many problems while installation or after that.

**5.2.2.16 Approvals**

|  |  |
| --- | --- |
| Identified none | **-** |
| Identified none | **-** |
| Identified none | **-** |
| Identified none | **-** |

* 1. **Test Design Specification**

**5.3.1 Purpose**

This part of document will specify the test condition for test items, the detailed test approach and identifies the associative high level of related test cases. The main purpose of document is to specify test suites and test cases, which are about to run and others to skip. It also let us know about features that need to be tested and test cases that are executed to test those features.

### 5.3.2. Outline

A test plan shall have the following structure:

1. Test plan identifier;
2. Introduction;
3. Test items;
4. Features to be tested;
5. Features not to be tested;
6. Approach;
7. Item pass/fail criteria;
8. Suspension criteria and resumption requirements;
9. Test deliverables;
10. Testing tasks;
11. Environmental needs;
12. Responsibilities;
13. Staffing and training needs;
14. Schedule;
15. Risks and contingencies;
16. Approvals.
    * + 1. **Test plan identifier**

**AKA\_APF02**

* + - 1. **Introduction**

The goal of this document is to develop a test design for Second hand Book Store and specify the test condition for test items, the detailed test approach and identifies the associative high level of related test cases.

**5.3.2.3 Test Items**

Test items are functions that provide of the related test plan. What is to be tested include the list of it. This can be defined from application as well as other sources of information or documentation. The information given in it includes configuration requirements and version numbers where it is needed. Test items in our project includes:

* 1.0 -Login : for registered users
* 1.0-Login : for unregistered users
* 1.0-Login : for invalid detail
* 1.0-Login : for empty field
* 1.0-Logout
* 1.0-Registration
* 1.0-Online order
* 2.0-Generate profit/.loss report

3.0-Biometric attendance

Our project require windows based operating system and run on the Google, opera, internet explorer, Mozilla Firefox or any other browser.

**5.3.2.4 Features to be tested**

The following list describes the features to be tested:

* Login/Log out.
* Registration.
* Online Order Booking.
* Biometric Attendance.
* Generate Profit/Loss Report.

**5.3.2.5 Features not to be tested**

Features which are not to be tested in our project are as follows:

* Record inventory.
* Pay cash.
* Display order status.
* Know or update product status.
* Salary record.
* Browser compatibility.

**5.3.2.6. Approach**

Test cases of the system will be made. System testing will be performed by the testers. Approaches used will be: Unit Testing Approach for Login, Parallel Testing Approach for Registration and login as well as Function Testing Approach for User Interface, Sign up etc. Test cases will be checked and executed using the software testing tool “JIRA”. Test cases will be recorded in documentation.

**5.3.2.7. Item pass/fail criteria**

This is most important part of the test plan, where criteria is left over for to be judged either the items or functionality is passed or not. The test process of our system will be completed as soon as, it will be delivered and processing will be started by the administrative users of the system, say admin. Each items are tested fully and passed testing. System should satisfy all the function and requirements defined and related to vision documentation.

**5.3.2.8. Suspension criteria and resumption requirements**

Testing will be stopped, if the number and type of defect will reach the point where follow on testing will not be preferable. This will lead to the wastage of resources. Conditions those let the page to be stopped, will be checked and acceptable level of defects, that will allow testing to proceed, will also be checked.

**5.3.2.9. Test deliverables**

All recorded errors are expected to be passed by the second test. A “Test Plan Document” and Several “Test Cases” will also be given. Test input data and test output data should be identified as deliverables.

**5.3.2.10 Testing Tasks**

These are the tasks required to prepare for and perform testing. We will do testing of our project using the following steps:

Tasks:

* System Test Plan
  + Prepare
  + Review
  + Rework
  + Baseline
* System Test Cases
  + Prepare
  + Review
  + Rework
  + Baseline
* System Test
  + Perform

**5.3.2.11 Environmental Needs**

No specific needs are required for testing to be get performed. 64-bit Windows operating system and 8.00 GB RAM size will be used. Testing will be done using test cases and will be performed in software testing tool known as JIRA and also documented in this deliverable with certain conditions and pass/fail criteria.

**5.3.2.12. Responsibilities**

Group members are responsible for managing, designing, preparing, executing, checking, and resolving. In addition, group that identified test items will also be responsible. These groups may include the developers, testers, operations staff, user representatives, and administration staff.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tasks** | **Member 1** | **Member 2** | **Member 3** |
| Write test cases | **×** | **×** |  |
| Prepare test plan | **×** |  | **×** |
| Execute test cases |  | **×** | **×** |

**5.3.2.13 Staffing and training needs**

Three members doing this project will perform testing on the underlying system that is “Automation of Pak Fans” using software testing tool. Test cases will be written and their execution will be performed that will reflect the functionality performed by the system, that should be assured and right.

**5.3.2.14 Schedule**

Testing will be performed within 45 days before the software is ready to launch. Related schedule for testing is defined in Gantt chart as one module to be completed within specified time. In defined time, test cases will be written and execution will be performed according to test plan to see for the compatibility between actual and expected result as well as the status and priority of test cases.

**5.3.2.15 Risks and contingencies**

Our project “Second hand Book Store ” is a web based system that provide automation to underlying company by leaving its manual work. It has no risks in the way of its development. But when the system is deployed it can face some minor risks like system slow down. Software testing tool could also have many problems while installation or after that.

**5.3.2.16 Approvals**

|  |  |
| --- | --- |
| Identified none | **-** |
| Identified none | **-** |
| Identified none | **-** |
| Identified none | **-** |

## 5.4. Test Case Specification

### 5.4.1. Purpose

### It specifies the purpose of a specific test, identifies the required inputs and expected results, provides step-by-step procedures for executing the test, and outlines the pass/fail criteria for determining acceptance.

### 5.4.2 Outline

A test case specification shall have the following structure:

1. Test case specification identifier
2. Test items
3. Input specifications
4. Output specifications
5. Environmental needs
6. Special procedural requirements
7. Inter case dependencies

#### 5.4.2.1. Test Case Specification Identifier

**AKA\_APF03**

#### 5.4.2.2 Test items

Test items are functions that provide of the related test plan. What is to be tested include the list of it. This can be defined from application as well as other sources of information or documentation. The information given in it includes configuration requirements and version numbers where it is needed. Test items in our project includes:

* 1.0 -Login : for registered users
* 1.0-Login : for unregistered users
* 1.0-Login : for invalid detail
* 1.0-Login : for empty field
* 1.0-Logout
* 1.0-Registration
* 1.0-Online order
* 2.0-Generate profit/.loss report

#### 5.4.2.3. Environmental needs

##### 5.4.2.3.1. Hardware

Notebook system will be used to perform the related testing. We will use 8.00 GB RAM size for execution of these test cases.

##### 5.4.2.3.2. Software

We will use 64-bit Windows operating system. Moreover, testing will be done using test cases and will be performed in software testing tool known as JIRA and also documented in this deliverable with certain conditions and pass/fail criteria.

##### 5.4.2.3.3. Other

There is no need of unique facility or trained personnel to perform this testing. A software tool is needed to perform all testing work and will be done by all three group members.

#### 5.4.2.4. Special procedural requirements

We have no constraint when to perform testing related to our project.

#### 5.4.2.5. Inter case dependencies

Following is the list of identifiers related to test cases that must be executed prior to this test case and summary of the nature of the dependencies:

* Registration before login.
* Logout after login.
* Registered before online order placement.
* Login before mark attendance.

**Login: For Registered Users**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-01 | Login | User should be able to login to the system after authentication. | User must be registered and have an account before. | **1-**Enter valid User-name.  **2-**Enter valid user password.  **3-**Click on login button. | Home page is displayed to the user. | User successfully logged in to the account. | Home page is displayed to the user when logged in to the account. | Pass |

**Login: For Un-Registered Users**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-02 | Login | User should not be able to log in to the account after entering invalid details. | None | **1-**Enyer invalid Username.  **2-**Enter invalid user password.  **3-**Click on Login button. | Error message is displayed to the user. | Un-successful to login to the account. | Please enter the valid credentials. | Pass |

**Login: When anyone of the details is invalid**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-03 | Login | User should not be able to login to the account when anyone of the details is not correct. | None | **1-**User enters invalid name,  **OR**  **2-**User enters invalid password.  User clicks on Login button. | Error message is displayed to the user. | Un-successful to login to the account. | Please enter the valid credentials. | Pass |

**Login: When anyone of the fields is empty:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-04 | Login | User should not be able to login to the account when anyone of the fields left empty. | None | **1-**User enters the name or leaves the field empty.  **2-**User enters the password or leaves the field empty.  **3-**User clicks on login button. | Error message is displayed. | Un-Successful to login to the account. | Please enter the valid details in empty fields. | Pass |

**Logout:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-05 | Logout | User should be able to logout from the account. | User must login to the account. | **1-**User clicks on logout button. | Login form is displayed on the screen. | Successfully logged out from the account. | Logged Out | Pass |

**Registration:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-06 | Registration | User should be able to register him/herself. | None | **1-**User enters name.  **2-**User enters address.  **3-**User enters e-mail.  **4-**User enters password.  **5-**User clicks on OK button. | A report is generated confirming registration of the user. | Successful registration. | Registered Successfully. | Pass |

**Online Order:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-07 | Online Order | User should be able to place order online. | User must have an account. | **1-**User enters all the necessary details required to place order online.  **2-**User clicks on OK button. | A report is generated confirming order placement and order status is updated. | Order placed Successfully. | Order placed. | Pass |

**Know user location:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-08 | Know user location | User should be able to know professional location. | User must have a complete record of location.. | **1-**User clicks on know location.. | None | Generation of location report and show location of the user. | View location. | Pass |

**Generate Profit/Loss Report:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Name** | **Test Case Description** | **Pre-Conditions** | **Steps** | **Post-Conditions** | **Expected Results** | **Actual Results** | **Test Case Status** |
| APF-09 | Generate Profit/Loss Report | User should be able to generate profit/loss report. | User must have all the accountings before about all of the items present in inventory. | **1-**User clicked on generate profit/loss report. | None | Generation of profit/loss report showing all the details of profit and loss within a defined time period. | Profit/loss report generated. | Pass |

* 1. **Test Procedure Specification**

**5.5.1 Purpose**

A test procedure specification is a document that specifies a sequence of actions for the execution of a test. The test procedures test the implementation of the requirement. Test procedure specification development can begin after the test cases and design are completed and approved. Moreover, test procedure is nothing but a test scenario of the related test cases.

#### 5.5.1.1. Test procedure specification identifier

**AKA\_APF04**

**5.5.2 Test Procedure Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Test scenario ID** | **Requirement- Reference document index** | **Test Scenario Description** | **Importance** | **No. of Test Cases** |
|  | APF-TS01 | Section 2.1.3  Para#1.0 | Check if the user is able to enter the Second hand Book Store system by a successful login account. | P1 | 4 |
|  | APF-TS02 | Section 2.1.3  Para#1.0 | Check if the user is able to logout from his account. | P3 | 1 |
|  | APF-TS03 | Section 2.1.3  Para#1.o | Check if the user is able to register himself for first time before being logged in | P1 | 1 |
|  | APF-TS04 | Section 2.1.3  Para#1.0 | Check if the user can place online order after being signed in from his account. | P1 | 1 |
|  | APF-TS06 | Section 2.1.3  Para#2.0 | Check if administrator is able to generate profit/loss report. | P1 | 1 |
|  | APF-TS07 | Section 2.1.3  Para#3.0 | View users location | P2 | 1 |
|  |  |  |  |  |  |

**5.6 Test Incident Report**

**5.6.1 Purpose**

Test Incident Report is mainly generated during the software testing stage and it records all the defects, bugs, and any other inconsistencies found by the testers while testing the software. This report document issues found during testing that require actions. There will be one incident report for each unique incident detected.

#### 5.6.1.1 Test incident report identifier

**AKA\_APF05**

#### 5.6.2 Summary

Summarize the incident. Identify the test items involved indicating their version/revision level. References to the appropriate test procedure specification, test case specification, and test log should be supplied.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Defect ID** | **Defect Description** | **Steps** | **Priority** | **Severity** | **Build No** | **Test Case ID** | **Report Date** | **Submit By** | **Fixed By** | **Fixed DATE** |
| APF-D01 | After login into system, next page is not displayed | 1. Open the application "URL" 2. Enter valid username 3. Enter valid password 4. Click on Login button | P1 | Highest | B1 | APF-01 | 15 May 2021 | Group Members | Group Members | 17 may 2021 |
| APF-D02 | After placement of online order, a confirmation message is not displayed to user | **1-**User enters all the necessary details required to place order online.  **2-**User clicks on OK button | P1 | Highest | B1 | APF-07 | 15 may 2021 | Group Members | Group Members | 17-May-2021 |

* 1. **Test Log/Test Summary Report**

### 5.7.1. Purpose of Test Log

To provide a chronological record of relevant details about the execution of tests. Test log is nothing but the addition of 2 fields namely 'Actual result' and 'Pass/Fail Criteria' to the test case i.e., already populated with test case id, test description, test pre-requisites, test steps, expected result.

**Purpose of Test Summary Report**

Test summary report is a document which contains summary of test activities and final test results. After the testing cycle it is very important that you communicate the test results and findings to the project stakeholders so that decisions can be made for the software release.

#### 5.7.1.1 Test log identifier

**AKA\_APF06**

**5.7.2 Test Log/Test Summary Report Table**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Scenario** | **Title** | **Actions** | **Expected Result** | **Actual Result** | **Test Data** | **Priority** | **Category** | Types of test cases |
| APF-01 | Login | Check login for registered users | **1-**Enter valid User-name.  **2-**Enter valid user password.  **3-**Click on login button. | User successfully logged in to the account. | Home page is displayed to the user when logged in to the account. | User detail is required | P1 | Sanity | Functional |
| APF-02 | Login | Check login for unregistered users | **1-**Enyer invalid Username.  **2-**Enter invalid user password.  **3-**Click on Login button. | Un-successful to login to the account. | Please enter the valid credentials. | Invalid username and password | P1 | Progression | Functional |
| APF-03 | Login | Check login when anyone of the details is invalid | **1-**User enters invalid name,  **OR**  **2-**User enters invalid password.  User clicks on Login button. | Un-successful to login to the account. | Please enter the valid credentials. | Valid username and invalid password **OR** invalid username and valid password | P1 | progression | Functional |
| APF-04 | Login | Check login when anyone of the field is empty | **1-**User enters the name or leaves the field empty.  **2-**User enters the password or leaves the field empty.  **3-**User clicks on login button. | Un-Successful to login to the account. | Please enter the valid details in empty fields. | User enter name but no password **OR** user enter password but no name. | P1 | progression | Functional |
| APF-05 | Logout | Check when the account is logged out | **1-**User clicks on logout button | Successfully logged out from the account. | Logged Out | NA | P3 | progression | Functional |
| APF-06 | Registration | Register user through account | **1-**User enters name.  **2-**User enters address.  **3-**User enters e-mail.  **4-**User enters password.  **5-**User clicks on OK button | Successful registration. | Registered Successfully. | User Detail is required | P1 | Progression | Functional |
| APF-07 | Online Order | Place order after being logged in | **1-**User enters all the necessary details required to place order online.  **2-**User clicks on OK button. | Order placed Successfully. | Order placed | User info is required | P1 | Progression | Functional |
| APF-9 | Generate Profit/Loss Report | Generate sale and purchase report | **1-**User clicked on generate profit/loss report. | Generation of profit/loss report showing all the details of profit and loss within a defined time period. | Sale/purchase report generated. | NA | P1 | progression | Databases |
| APF-10 | Mark Biometric Attendance | Check if employee can mark attendance through biometric system | **1-**User touches the biometric device through the right thumb of his/her hand. | User successfully marked the attendance. | Attendance Marked | Account detail is required | P2 | progression | Functional |
|  |  |  |  |  |  |  |  |  |  |

* **Summary Report**

All modules of our project works successfully.