**COMSATS University Islamabad, Pakistan**

**Mehria Marquee System**

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***Bachelor of Science in Software Engineering (2017-2021)***

The candidate confirms that the work submitted is their own and appropriate credit has been given where reference has been made to the work of others.



**COMSATS University, Islamabad Pakistan**

**Mehria Wedding Marquee**

**A project presented to**

**COMSATS University, Islamabad**

**In partial fulfillment**

**Of the requirement for the degree of**

***Bachelor of Science in Software Engineering (2017-2021)***

**By**

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**DECLARATION**

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Ahsan Ali Muhammad Muzammil

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**CERTIFICATE OF APPROVAL**

It is to certify that the final year project of BS(SE) **“Mehria Wedding Marquee”** was developed by **Ahsan Ali (CIIT/SP17-BSE/001)** **and Muhammad Muzammil (CIIT/SP17-BSE/025)** under the supervision of **“Mr. Muhammad Kamran”** and that in his opinion; it is fully adequate, in scope and quality for the degree of Bachelors of Science in Software Engineering.

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**Chapter # 1**

# **Introduction**

## **Brief**

*Mehria Marquee System* is a customized web application developed for managing the intra-business activities of the entities. These entities include; Reservation, Stock and Accounts. The system will provide the services of inter-linking the separate sets of data and the functionality of keeping track of every element involved. The system will remind the user of a reserved function prior to when it is scheduled to commence. The system will also provide the functionality of adding new stock. The record of account reports will also be managed and generate by the business. In this system, we will use backup by syncing the files.

All the above-mentioned work, which is currently done manually, will be automated by the system.

## **Relevance to Course Modules**

### **Project Domain**

The basic knowledge for the development of this project is how to deal with stakeholders and how to manage the whole project. Basics of accounting and other business terms and conditions.

All above knowledge was learn from following subjects.

* Introduction to Management (MGT101)
* Communication Skills (HUM103)
* Professional Practices in IT (CSC110)
* Financial Accounting (MGT131)

### **Development and Testing**

The document deliverable related to our project *Mehria Wedding Marquee* such as Scope Document, Software Requirements Specification, Software Design Specification, Project Charter and prototypes etc.

All above knowledge was learn from following subjects.

* Software Requirement Engineering (CSE305).
* Software Engineering, I (CSC291).
* Software Project Management (CSC494).
* Software Engineering II (CSC392).
* Human Computer Interaction (CSC456).

The project would be developed using MVC which is a Asp.net framework, My SQL is used as local server in this application and testing techniques used in chapter 6. All these knowledges were learning from following subjects.

* Web Engineering (CSC336).
* Database Systems (CSC271).
* Visual Programming (CSC444)
* Software Quality Engineering (CSE302).

## **Project Background**

The customers are facing serious problems in managing and keeping track of all the entities that are implemented by individuals as they must record the data manually on receipt books.

Most of the time they lost the receipts on which important data is recorded, due to which it becomes very difficult for them to handle business in smooth way. In addition to this, they also have difficulty in managing stock in a way that they don’t know that how much stocks will be used for upcoming functions. Sometimes they face shortage of stock for any event due to which the event or functions starts late. To handle account information becomes erroneous in a case they forget that to which customer payment will be returned and from whom to receive.

Moreover, data about these entities is stored separately as manual receipt books. Another problem is if the users require to generate reports about previous month’s sales (profit/loss/expenses), balance sheet and income statement etc. The users must troll through the details of cash-flow and thus do extensive and cautious calculations. This creates serious complexity in doing manual work as system remains at high risk of human errors.

**Backup**

Backup would be set also to save important data files and can be readily available if the files lost or may corrupt. Backup files helps to avoid any lost of important data.

## **Literature Review**

There are a lot of projects in the market that exhibits the same basic functionalities as ours have but the main difference in ours is, the modules are designed specifically to fulfill the requirements of the customer. Some of the related work is shown below,

Marriage Hall Management Islamabad; Exhibits the functionality of Customer Information management, Calendar management, Order Booking management etc.

## **Analysis from Literature Review**

To develop an application, that is faster than manual system. To develop simple, handy, effective and advanced application that is time consuming and made an ease for the whole business.

To overcome this problem, we developed a customized local-server web application which help minimize complexity of the whole business and reduce the possibilities of human errors by providing interlinks between all modules. It will ultimately help the users to remain updated with each entity. To minimize complexity every report will be generated by the system automatically based on account’s calculations. It will also help stakeholders of the business to overwatch the business cashflow.

In case of loss of data, there will be opportunity to recover that important data files from backup in no time.

## **Methodology and Software Lifecycle for This Project**

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Figure ‎1‑1 Waterfall Model

* We would be using waterfall model as our software process model because through this model the system can evolve much according to the needs of users. In waterfall model, we cannot jump to next phase till the completion of first phase and we cannot back propagate to initial phase once that phase has been completed.
* We use object-oriented approach for the developing of this system.

### **Rationale behind Selected Methodology**

* This is customized system and once we had taken all requirements from the stakeholders and after validating all the requirements we jump to next phase and later no requirement can be changed and added. Therefore, according to the nature of system we would use waterfall model.
* We use ASP .NET framework which is based on object-oriented concepts.
* Object oriented approach make it very easy for us to maintain the system and increase reusability. It brings improvement in the productivity as well.

**Chapter # 2**

# **Problem Definition**

## **Problem Statement**

The customers are facing serious problems in managing and keeping track of all the entities that are implemented by individuals as they must record the data manually on receipt books. Moreover, data about these entities is stored separately as manual receipt books. Another problem is if the users require to generate reports about previous month’s sales (profit/loss/expenses), balance sheet and income statement etc. The users have to troll through the details of cash-flow and thus do extensive and cautious calculations. This creates serious complexity in doing manual work as system remains at high risk of human error.

## **Deliverables**

* **LOCAL SERVER WEB APPLICATION**

* **Project Report** A complete Project Report that includes Software Requirements Specification, Software Design Specification, GUI Mockups, Test Cases, and other major tasks that we have performed.

## **Development Requirements**

Following are the requirements which the user of the system must fulfill in order to run the system on their laptops or PCs.

### **OS Requirements**

Window 8 and higher window versions.

### **Application Requirements**

Visual studio, SQL Server Management Studio.

### **DBMS Requirements**

SQL Server 2017, C# for Connectivity of the application with the server.

## **Related System Analysis/Literature Review**

There are a lot of projects in the market that exhibits the same basic functionalities such as booking Details of all the Customers and their Payments record like advance and Final payment and reports will show the bookings month wise and Date wise and Profit reports will be shown to main admin. Manual backup or auto backup to desired folder.

Figure 2.4 shows the modules of the system. [1]

![A picture containing screenshot

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REARXhpZgAATU0AKgAAAAgABAE7AAIAAAASAAAISodpAAQAAAABAAAIXJydAAEAAAAkAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE11aGFtbWFkIE11emFtbWlsAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMwOAAAkpIAAgAAAAMwOAAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure ‎0‑1 Marriage Hall Management System

## 

**Chapter # 3**

# **Requirements Analysis**

## **Use Cases**

### **Reservation**

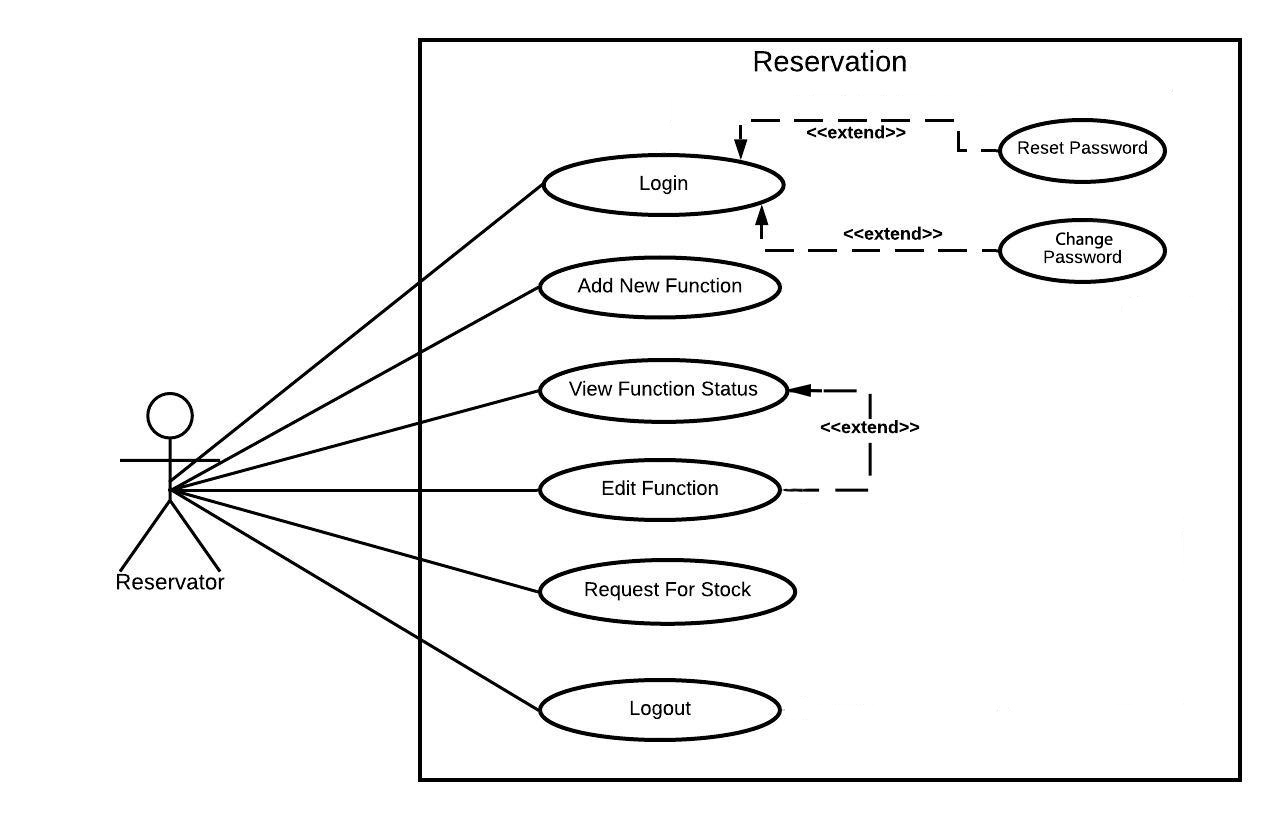


Figure ‎3‑1 Reservation Use case Diagram

### **Stock**

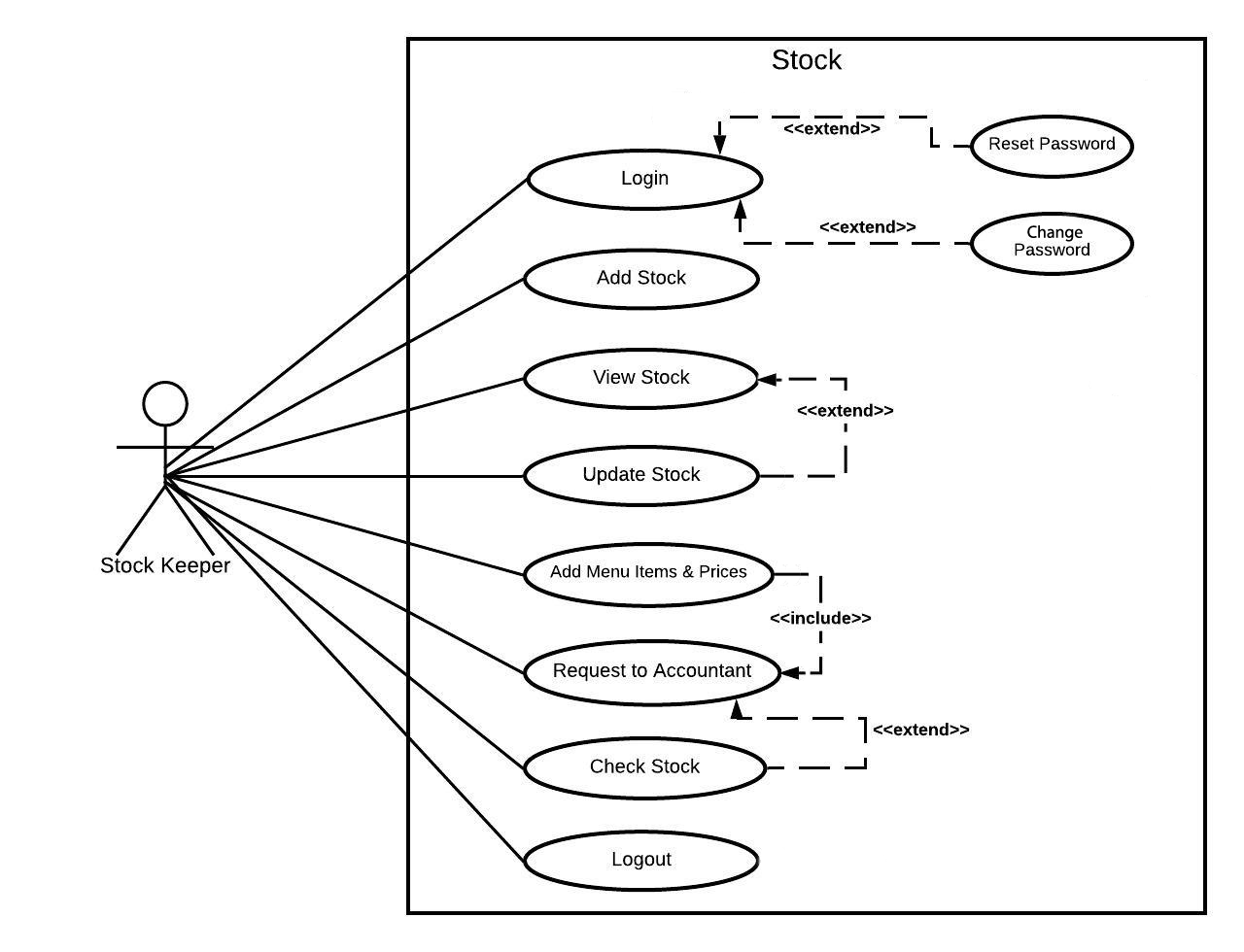


Figure ‎3‑2 Stock Use case Diagram

### **Account**

Diagram

Description automatically generated

Figure ‎3‑3 Account Use case Diagram

## **Detailed Use cases**

**Use** **case** **name**: Login

**Priority**: It must be done first.

**Actors**: Reservator, Stock keeper and Accountant

**Precondition**: Actors view index page.

**Post-Condition**: If the use case was successful, the actor is now logged into the system. If not, then the system state is unchanged.

**Extend**: Reset Password

**Normal course of event**: This use case starts when an actor wishes to reset password in case of forget password.

1. The actor enters new password against his entered username.
2. The system validates the entered username and password and logs the actor into the system.

**Alternative** **path**: **Invalid Username / Password**  
If in the *Basic Flow*the actor enters an invalid username and password, the system displays an error message. The actor can choose to either return to the beginning of the Basic Flowor cancel the login, at which point the use case ends.

**Extend**: Change Password

**Normal course of event**: This use case starts when an actor wishes to change password.

1. The actor enters old password then new password and confirm password.
2. The system validates the entered old password and set new password and displays message that password changes successfully.

**Alternative** **path**: **Invalid Username / Password**  
If in the *Basic Flow*the actor enters an invalid old password, the system displays an error message. The actor can choose to either return to the beginning of the Basic Flowor cancel the change password request, at which point the use case ends.

**Use** **case** **name**: Add new function

**Priority**: 2

**Actors**: Reservator

**Precondition**:

**Post-Condition**: After that Reservator can view function status or logout.

**Extend**: none

**Uses**: View Function status, Edit function, Request for check stock availability and Logout.

**Normal course of event**: This use case starts when actor want to add new function detail.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Reservator add new function detail which is required by system.

**Use** **case** **name**: View function status

**Priority**: 2

**Actors**: Reservator

**Precondition**: Actor must be login into his portal.

**Post-Condition**: Reservator can Edit function detail or request for check required stock availability or logout.

**Extend**: none.

**Uses**: Edit function, Request for check stock availability and Logout.

**Normal course of event**: This use case starts when an actor wants to view added functions status.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Reservator can view the function status.

**Use** **case** **name**: Edit function

**Priority**: 3

**Actors**: Reservator

**Precondition**: Actor must be login into his portal and at least one function must be added.

**Post-Condition**: Added function details updated successfully.

**Extend**: none

**Uses**: Edit function, Request for check stock availability and Logout.

**Normal course of event**: This use case starts when an actor wants to edit function detail which is already added.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Reservator add new function detail which is required by system.
3. After successfully added new function detail actor can edit that function detail.

**Use** **case** **name**: Request for check stock availability

**Priority**: 3

**Actors**: Reservator

**Precondition**: Actor must be login into his portal and at least one function must be added.

**Post-Condition**: Stock keeper can check the stock detail which is required by that function.

**Extend**: None

**Normal course of event**: This use case starts when an actor wants to request for available stock of booked function.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Reservator add new function detail which is required by system.
3. After successfully added new function detail actor can request for check required stock availability.

**Use** **case** **name**: Logout

**Priority**: 2

**Actors**: Reservator, Stock keeper and Accountant

**Precondition**: Actor must be logged in.

**Post-Condition**: Actors view index page.

**Extend**: None

**Normal course of event**: When actor wants to close his portal.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Actors can logout from the system.

**Use** **case** **name**: Add Menu Items & Prices

**Priority**:2

**Actors**: Stock keeper

**Precondition**: Actor must be login into his portal and received menu request from reservator

**Post-Condition**: Actor would be able to check stock availability according to that menu items.

**Extend**: None

**Normal course of event**: This use case starts when an actor wants to add dish items and prices.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Actors would add each dish items and their prices, mentioned in the menu.

**Use** **case** **name**: Check stock

**Priority**: 2

**Actors**: Stock keeper

**Precondition**: Actor must be login into his portal.

**Post-Condition**: Report would be generated related to required stock.

**Extend**: None

**Normal course of event**: This use case starts when an actor wants to fulfill the request of required function stock.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Actors would check the required function stock and report will be generated.

**Use** **case** **name**: View stock

**Priority**:2

**Actors**: Stock keeper

**Precondition**: Actor must be login into his portal.

**Post-Condition**: Actor would be able to view the available stock.

**Extend**: None

**Normal course of event**: This use case starts when an actor wants to view the Available stock.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Actors would view the stock and report will be generated.

**Use** **case** **name**: Add stock

**Priority**: 2

**Actors**: Stock keeper

**Precondition**: Actor must be login into his portal.

**Post-Condition**: Actor would be able to add new items.

**Extend**: none

**Use** **case** **name**: Update stock

**Priority**: 3

**Actors**: Stock keeper

**Pre-condition**: Actor must be login into his portal and at least one item would be added

**Post-condition**: Actor would be able to edit the items detail.

**Extend**: Delete stock.

**Normal course of event**: This use case starts when an actor wants to view the Available stock.

1. The system requests that the actor enter username and password.
2. If username and password is correct. Actors must be added new item if there is no item exist and edit the items detail.

**Use** **case** **name**: Request to Accountant

**Priority**: 3

**Actors**: Stock keeper

**Precondition**: Actor must be login into his portal and at least one function must be added.

**Post-Condition**: Request would be sent to accountant related to lack of stock.

**Extend**: none.

**Use** **case** **name**: Add Account Details

**Priority**: 2

**Actors**: Accountant

**Precondition**:

**Post-Condition**: Actor would be able to see the overall report.

**Use** **case** **name**: Record Transaction

**Priority**: 2

**Actors**: Accountant

**Precondition**:

**Post-Condition**: Actor would be able to see the overall report.

**Use** **case** **name**: Generate balance sheet

**Priority**: 2

**Actors**: Accountant

**Precondition**: Actor must record the transactions.

**Post-Condition**: Actor would be able to see the overall report.

**Use** **case** **name**: Generate cash flow statement

**Priority**: 2

**Actors**: Accountant

**Precondition**: Actor must be login into his portal.

**Post-Condition**: Actor would be able to see the report.

**Use** **case** **name**: Generate sales summary

**Priority**: 2

**Actors**: Accountant

**Precondition**: Actor must be login into his portal.

**Post-Condition**: Actor would be able to see the selected date range report.

**Use** **case** **name**: Generate monthly report

**Priority**: 2

**Actors**: Accountant

**Precondition**: Actor must be login into his portal.

**Post-Condition**: Actor would be able to see the month vice report.

**Use** **case** **name**: Generate income tax report

**Priority**: 2

**Actors**: Accountant

**Precondition**: Actor must be login into his portal.

**Post-Condition**: Actor would be able to see the income tax report.

## **Requirements**

A complete description of what the software system will do without describing how it will do it is represented by the **software requirements**. A condition or capability that must be met or possessed by a system to satisfy a contract, standard, specification or other formally imposed documents.

### **Functional requirements**

Should be complete and consistent. Customer and developers usually focus all their attention on functional requirements. Statements of services the system should provide:

* Reaction to inputs
* Behavior in particular situations

Following are functional requirements:

#### **Login**

* Reservator shall be login via username and password.
* Stock keeper shall be login via username and password.
* Accountant shall be login via username and password.

#### **View Profile**

* After logged in Reservator shall be able to view their own portal.
* After logged in Stock keeper shall be able to view their own portal.
* After logged in Accountant shall be able to view their own portal.

#### **Change Password**

* After Logged in Reservator, Stock keeper and Accountant can edit their own Password.

#### **Reservation**

* User shall be able to add new function details into the system.
* User shall be able to view function details from the system.
* User shall be able to edit or modify existing function details.
* User shall request to stock keeper for the function required stock.
* System shall remind the user of upcoming functions.

#### **Stock keeper**

* User shall be able to check required stock for the requested function.
* User shall be able to view the remaining stock in the inventory from the system.
* User shall be able to update the stock from the system on regular basis.
* User shall be able to add new items into the system.
* User shall be able to delete the stock from the system.
* User shall be able to request to the accountant for the lack of stock for the given function.
* User shall be able to add items for each dish which is mentioned in menu.

#### **Accountant**

* Balance sheet report shall be generated by the system.
* Sale summary report shall be generated by the system.
* Monthly report shall be generated by the system.
* Cash flow statements shall be generated by the system.
* Income tax report shall be generated by the system.
* User shall be able to add account details.
* User shall be able to record transactions.
* User shall be able to make voucher of transactions.

#### **Logout**

* All users shall be able to logout.

### **Non-functional requirements**

These requirements specify the criteria that can be used to judge the operation of a system.

rather than specific behavior. It ensures the quality of a software. It essentially specifies how

the system should behave and the constraints upon the system.

**Security requirement:**

We have integrated the authorization and authentication module into the system to ensure security requirements. Unregistered user cannot access the system. Safety requirement is maintained through providing individual account to each user.

**Reliability:**

As there are only three users of this system. So, there is not much traffic comes to this system, so this product is not much expose to failure and in this way, product meets reliability requirements.

**Maintainability:**

In future, if there will be needed to upgrade the system or any error occur then modification and changes will easily be integrated into the system.

**Reusability:**

This system is customized but can be reuse for similar business by making small changes to system design, interface and functionalities.

**Performance:**

Booking and generating reports will be take some time and can fail the system so that’s why this work will done on server so the high performance can be achieved.

**Usability:**

Our Application will be user friendly and should require least effort to operate. Easy to use individual portals as each portal have its own design and controls.

**Portability:**

This system can be run on any device and on any operating system.

**Chapter # 4**

# **Design and Architecture**

## **System Architecture**

### **How does our system work?**

Diagram

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Figure ‎4‑1 System Architecture

### **Block Diagram**

Diagram

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Figure ‎4‑2 Block Diagram

**Description**

This diagram shows that users that are reservator, accountant and stock keeper will interact with the system to access their respective portals through internet connection. Request will be sent to the server from any user and server will respond to that request the required information. Backup will also be utilized by the user by syncing their files. This whole process will be driven by internet connection.

## **Data Representation**

### **Data Flow Diagram (level 0)**

Diagram

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Figure ‎4‑3 Data Flow Diagram (L0)

### **Data Flow Diagram (level 1)**

Diagram, schematic

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Figure ‎4‑4 Data Flow Diagram (L1)

## **Process Flow/Description**

**Reservation Process Flow**

A screenshot of a cell phone

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Figure ‎4‑5 Reservation Process Flow Diagram

**Description**

This diagram is basically showing the flowchart to represent the flow from one activity to another activity, Figure Demonstrate the activity diagram of the Reservator. It shows that the reservator login into his reservation portal and able to book new functions, edit booked functions, view status of functions and request to stock keeper for the availability of required stock. Moreover, he will save new booked functions or edited functions. After this, he wants to go back to portal menu or logout from portal and activity will end.

**Stock Process Flow**

A screenshot of a cell phone

Description automatically generated

Figure ‎4‑6 Stock Process Flow Diagram

**Description**

This diagram is basically showing the flowchart to represent the flow from one activity to another activity, Figure Demonstrate the activity diagram of the Stock keeper. It shows that the stock keeper login and after authentication process, stock keeper will add stock, view stock, update stock on daily basis and checks the required stock for functions that likely to be held that day. After checking the stock, he will be able to request to accountant for allocating the budget to fulfil the required stock. Moreover, he will save stock after adding and updating the stock. At the end, stock keeper wants to go back to stock portal or logout from the portal and then the activity is end.

**Account Process Flow**

Diagram

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Figure ‎4‑7 Account Process Flow Diagram

**Description**

This diagram is basically showing the flowchart to represent the flow from one activity to another activity, Figure Demonstrate the activity diagram of the Accountant. It shows that the accountant will login and after authentication process, accountant will generate several reports which includes balance sheet, sale summary, monthly reports, cash flow statement and income tax report. Accountant will also add or view account details, record transactions and add or view vouchers. At the end, accountant wants to go back to account portal or logout from the portal and then the activity is end.

**Sequence Diagram**

Diagram

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Figure ‎4‑8 Sequence Diagram of System

**Description**

This diagram is interaction diagram that shows detail how operation is carried out. This diagram shows that the order of interaction to represent time what message are sent and when. The object include in sequence diagram is Reservator, Stock keeper, Accountant, Server and Cloud storage.

Reservator, Stock keeper, Accountant send request to server for login and in a result, they view their respective portals.

Reservator send request to add new functions and view functions and get response of adding and viewing functions from server.

Reservator also send request to stock keeper and server will sent request to stock keeper.

Stock keeper send request to add new stock and view stock and get response of adding and viewing stock from server.

Stock keeper also send request to accountant and server will sent request to accountant.

Accountant send request to record different transactions and in response accountant view transactions.

## **Design Models**

### **Class Diagram**

**A close up of text on a white background

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Figure ‎4‑9 Class Diagram of System

**Description:**

Our app will have nine main classes that are mentioned above.

* Customer class is dependent on Function class that customer will book any function.
* Function class is dependent on Program class that function will be of any program.
* Program class is independent of Menu class that they have aggregation relation.
* Dish class is dependent on Menu class that dish will be of any menu.
* Item class is independent of Dish class that they have aggregation relation.
* Supplier class has many to many relations with Item class.
* Supplier class is dependent on Account class that supplier must have any account.
* Account class is dependent on Voucher class that voucher will be generated of any account.

### **ERD**

Diagram

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Figure ‎4‑10 Entity-Relationship Diagram of System

**Chapter # 5**

# **Implementation**

This area will framework of the advances used to develop this project. Execution is the important time of programming change life cycle where the idea and insights are given a physical closeness. At this stage, programming changes into the executable system.

We have implemented our system using following methodology in addition to different tools and technologies.

## **Methodology**

As we have discussed earlier that for the development of our application, we have adopted the waterfall model as our software process model because through this model the system can evolve much according to the needs of users. This is customized system and once we had taken all requirements from the stakeholders and after validating all the requirements we jump to next phase and later no requirement can be changed and added.

## **Development Stages**

### **Installation of Tools**

#### **Visual Studio Community Edition 2015**

Installation of Visual studio is the first step in development stage. This is our developing environment in which we are developing our product using MVC framework. MVC framework is pre-installed in Visual Studio

Graphical user interface, text, application, website

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Figure ‎5‑1 Visual Studio 2015

#### Microsoft SQL Server 2017

Second step of development was to install Microsoft SQL Server for storing the data file. In SQL Server we have created our database structure.

Graphical user interface, application

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Figure ‎5‑2 Microsoft SQL Server

#### Hosting Cpanel (Plesk)

We are using Plesk control panel for hosting our application script that boost up the performance of our application. In addition, database and C# scripts are managed.

Graphical user interface, application, website

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Figure ‎5‑3 Hosting Cpanel

## **Tools & Technology Used**

Table 1 Tools and Technology Used

|  |  |  |  |
| --- | --- | --- | --- |
| Tools  and Technologies | **Tools** | **Version** | **Rational** |
| Visual Studio | 2015 | IDE |
| Microsoft SQL Server | 2017 | DBMS |
| Plesk | 18.2.31 | Hosting |
| Adobe Photoshop | 2017 | Design Work |
| MS Word | 2016 | Documentation |
| MS Power Point | 2016 | Presentation |
|  |  |  |
| **Technology** | **Version** | **Rational** |
| CSharp (C#) |  | Programming Language |
| SQL |  | Query Language |
| Bootstrap | 3.0 | CSS Styling |

## **User Interface**

### **Index Page**

Graphical user interface, website

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Figure ‎5‑4 Index Page

### **Reservation Portal Dashboard**

This is the dashboard or index page of reservation portal.



Figure ‎5‑5 Reservation Dashboard

### **Account Portal Dashboard**

This is the dashboard or index page of accounts portal.

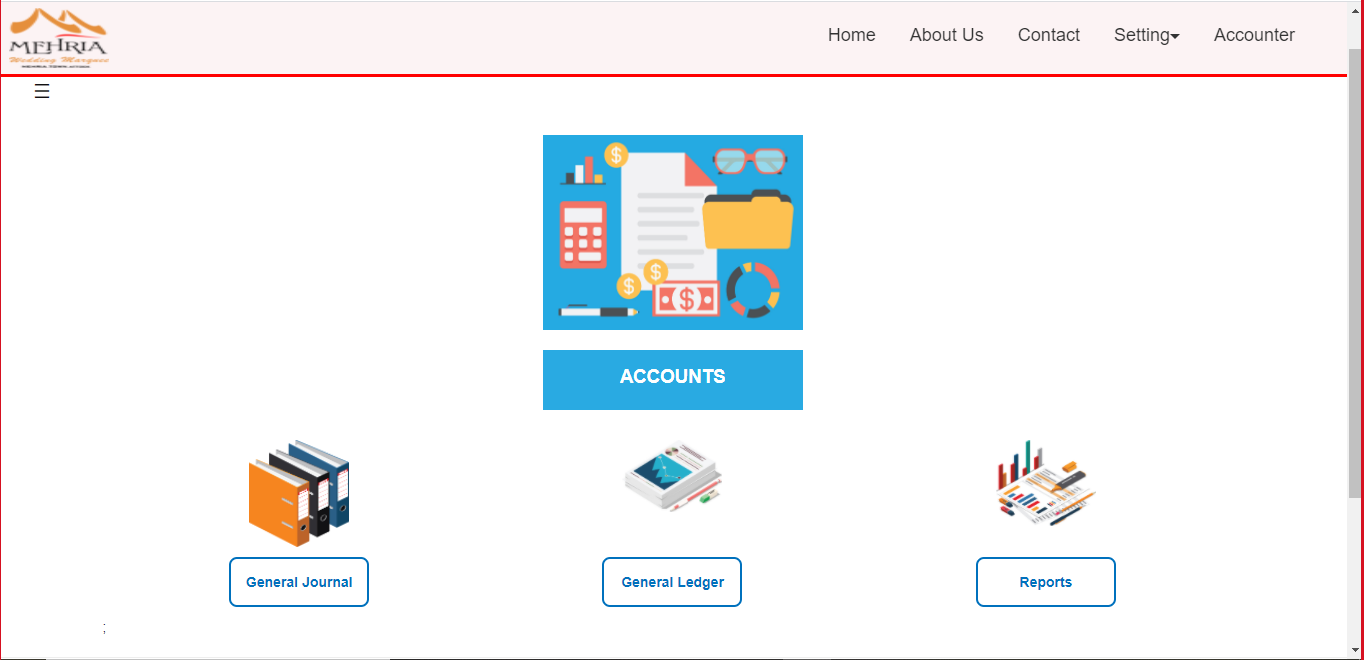


Figure ‎5‑6 Account Dashboard

### **Stock Portal Login Dashboard**

This is the dashboard or index page of stock portal.

Graphical user interface, application, Teams

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Figure ‎5‑7 Stock Dashboard

**Chapter # 6**

# **Evaluation and Testing**

Programming Testing in like manner gives an objective, free viewpoint of the item to enable the business to recognize and appreciate the threats at use of the item. Testing guarantees the certification and nature of the item that whether it is up to the check or not, it guarantees that whether every one of the prerequisites of client are being satisfied or not. Quality affirmation is the primary factor in testing, the organization who don't bargain on quality factor they focus much on assessment and testing.

## **Testing Objectives**

The focus of doing testing of application is to brings up the errors that cause the application to run unsmooth and not letting the functions to give proper output. After discovering these errors, the following points are to be considered as solution for those errors.

## **Selected testing methodology**

For testing of application, we use manual testing as our testing tool and by using the use case base testing, we can test the functionality of the whole system.

Testcases for Reservation Portal

Table 2 Reservation Testcases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr. No | Test Case | Attribute & Value | Expected Result | Result |
| 1 | User Login | User enters correct username & password | User is Logged in | PASSS |
| 2 | Add New Function | User enters the values in all fields | Function Added | PASS |
| 3 | View Function Status | User is logged in | User can view function status | PASS |
| 4 | Edit Function | User change the added function | Function edit successfully | PASS |
| 5 | Request for Stock | User send the request for active functions | Request sent successfully | PASS |
| 6 | Logout | User clicks on logout | User logs out | PASS |

Testcases for Stock Portal

Table 3 Stock Testcases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr. No | Test Case | Attribute & Value | Expected Result | Result |
| 1 | User Login | Users enters correct username & password | User is Logged in | PASS |
| 2 | Add Stock | User enters the values in all fields | Stock Added | PASS |
| 3 | View Stock | User is logged in | User can view stock | PASS |
| 4 | Update Stock | User change older values | Stock updated | PASS |
| 5 | Add Menu & Prices | User inputs value in all fields | Menu & Prices added | PASS |
| 6 | Request to Accountant | User first add menu & prices | Request sent to Accountant | PASS |
| 7 | Check Stock | User checks the stock for upcoming function | Stock available/Lacks | PASS |
| 8 | Logout | User clicks on Logout | User logs out | PASS |

Testcases for Account Portal

Table 4 Account Testcases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr. No | Test Case | Attribute & Value | Expected Result | Result |
| 1 | User Login | User enters correct username & password | User is Logged in | PASS |
| 2 | Add Account Details | User enters the values in all fields | Account details added | PASS |
| 3 | Generate Sale Summary | User enter required details for sale summary | Sale summary generated | PASS |
| 4 | Generate Monthly Reports | User enter required details for monthly reports | Monthly reports generated | PASS |
| 5 | Generate Cash Flow Statements | User enter required details for cash flow statements | Cash flow statements generated | PASS |
| 6 | Generate Income Tax Reports | User enter required details for income tax reports | Income Tax reports generated | PASS |
| 7 | Record Transaction | User enter the transaction information | Transactions recorded | PASS |
| 8 | Generate Balance sheet | User enter required details for Balance sheet from transaction information | Balance sheet generated | PASS |
| 6 | Logout | User clicks on logout | User logs out | PASS |

**Chapter # 7**

# **Conclusion & Future Work**

This chapter concludes the project and highlights future work.

## **Vision**

Our vision is to make efficient way for our customer to run their business by creating an application which manages all their activities of business in user friendly way and save their time.

## **Conclusion**

Mehria Marquee Systemis full fledge application for business purpose. This application saves a lot of time and cost of the user. As we have used advance framework to develop this application. This application handles their reservation, stock and account information in an efficient way. And we are familiar with the MVC framework to develop websites projects.

## **Future Work**

We will give continuously support and maintenance that will bring new functionalities in the application. If in the future user need new module of their requirement, we will integrate that new module. Later, we will out-source this application for other marquee’s with new features and more customization. In future we add the feature of adding dynamic menu out of given dishes.

# **References**

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