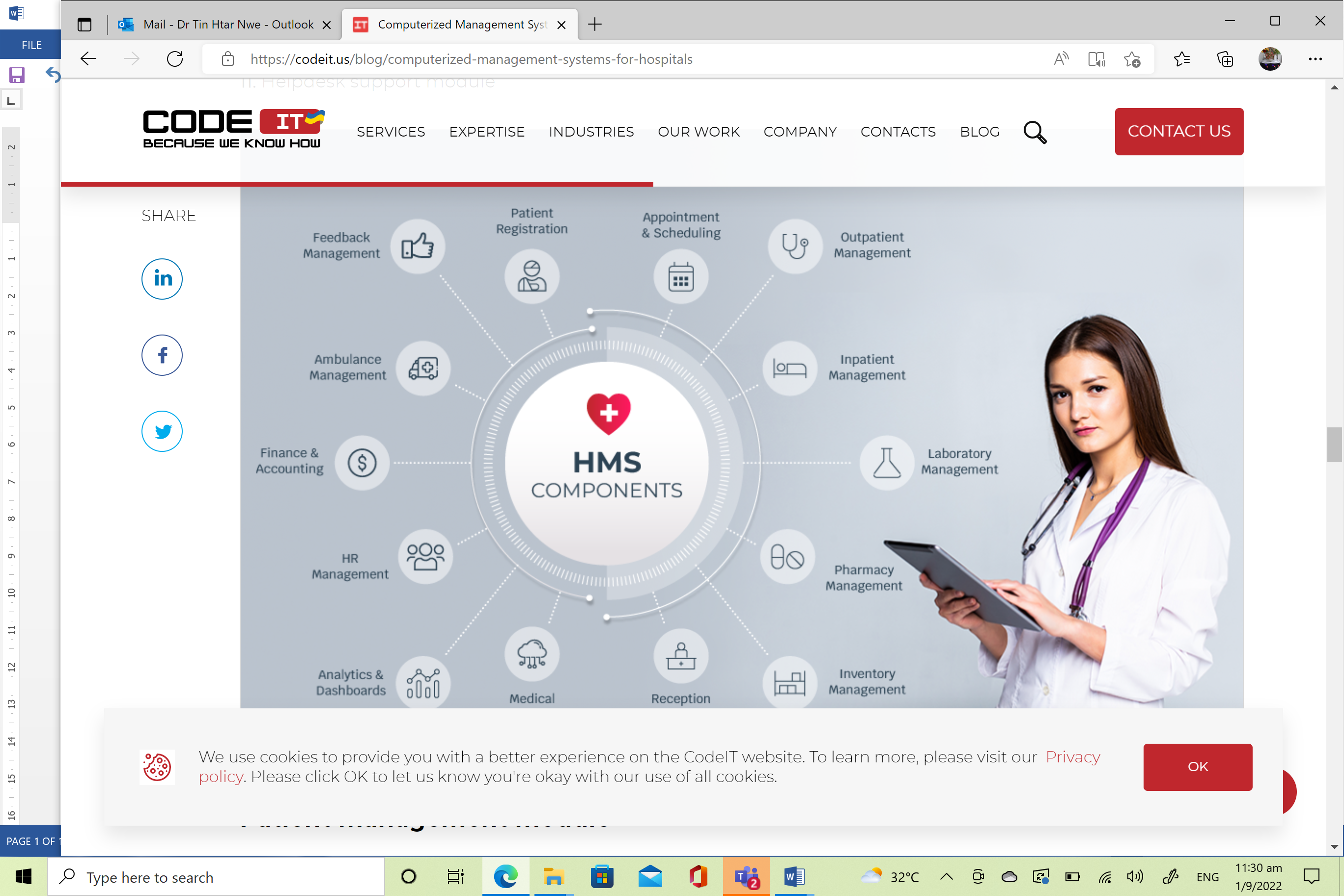


Online Hospital Management System

Using Web-based Application for Sakura Hospital



Name : NYI NYI

NCC NO : 00121314

Report Date : 25 Sep 2024

Table of Contents

Abstract

Acknowledgement

Project Proposal

# Project Proposal

# Overview (200 to 400) words

**Lorem Ipsum** is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

**Lorem Ipsum** is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

# Current Business History

**Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.**

# Current Business Process

**1.3.1 Book Purchase Process**

**Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.**

**1.3.2 Book Donation Process**

**Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.**

**1.3.4 Borrow Process**

**1.3.5 Return Process**

**1.3.6 Membership (Renew) Process**

**Reservation Process**

**Damage Process**

**Income & Expense Process**

**Phone Contact to Overdue Customer (Manual)**

# Current Business Issues (Manual System Issues)

**1.4.1 The standard Lorem Ipsum passage, used since the 1500s**

**Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.**

# Proposed System Scope

Intro

**1.5.1 Book Purchase Process**

**Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.**

**Book Donation**

**Borrow Process**

**Return Process**

**Membership (Renew) Process**

**Reservation Process**

**Damage Process**

**Income & Expense Process**

**Phone Contact to Overdue Customer (Manual)**

# Aims and Objectives

**1.6.1 Aims**

**1.6.2 Objectives**

**Analysis**

* Requirements Collect (Interview) (1 week)
* SWOT Analysis (2 days)

**Similar System Research** (7 days)

* Functional Comparison
* Non-functional Comparison

**Research (Need References)**

* Methodology
* Programming Languages
* Databases

**Design**

* **Usecase Diagram**

**Implementation**

* Development for Timebox (1) (2 weeks)

**Evaluation**

# Estimate Cost and Duration

* + 1. **Hardware Cost**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Item** | **Description** | **Unit Price** | **Quantity** | **Sub-Total** |
| 1 | Desktop Computer | XXXXXXXXXXXXXXX  XXXXXXXXXXXXXXX  XXXXXXXXXXXXXXX | $ 1000 | 2 | $2000 |
| 2 | Printer | XXXXXXXXXXXXXXX | $500 | 1 | $500 |
| **Total Hardware Cost** | | | | | **$2500** |

* + 1. **Software Cost**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Item** | **Description** | **Unit Price** | **Quantity** | **Sub-Total** |
| 1 | Operating System | Window 10 (XX Edition) | $50 | 2 | $100 |
| 2 | Antivirus | Avast | $5 | 2 | $10 |
| 3 | Browser | Chrome, Firefox (Free) | $0 | 0 | $0 |
| **Total Software Cost** | | | | | **$110** |

* + 1. **Development Cost**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Item** | **Description** | **Unit Price** | **Quantity** | **Sub-Total** |
| 1 | Web Development Cost | Language: PHP  Database: MYSQL  Pages: XXX  Data Entry: FOC  Training: FOC | $10000 | 0 | $10000 |
| 2 | Hosting Cost | XXXXXXXXXXX |  |  |  |
| 3 | Domain Name Registration | XXXXXXXXXXX |  |  |  |

* + 1. **Summary Cost**

|  |  |
| --- | --- |
| **Category** | **Cost** |
| Software |  |
| Hardware |  |
| Development |  |
| **Total** | $ XXXXXX |

# Project Plan (Gantt chart)

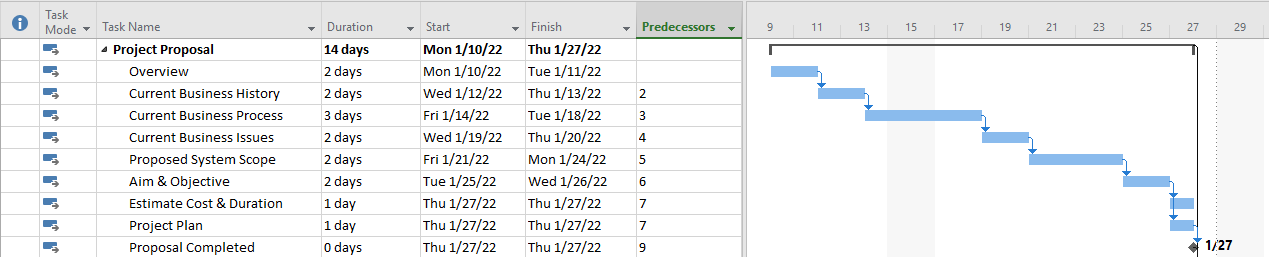


Fig (1) Project Proposal

???

Chapter-1

Introduction

# Chapter – 1 Introduction

# Background of the Current System

History

Current Business Process

Current Business Issues

# SWOT Analysis (Current System)

**Strengths**

* XXXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Weaknesses**

* XXXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Opportunities**

* XXXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Threats**

* XXXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* XXXXXXXXXXXXXXXXXXXXXXXXXXXX

# Proposed System Scope (Details Explain)

# Aims & Objectives of the Project

# Short overview of the remaining chapters

Chapter-2

Similar Product Comparison (Investigation)

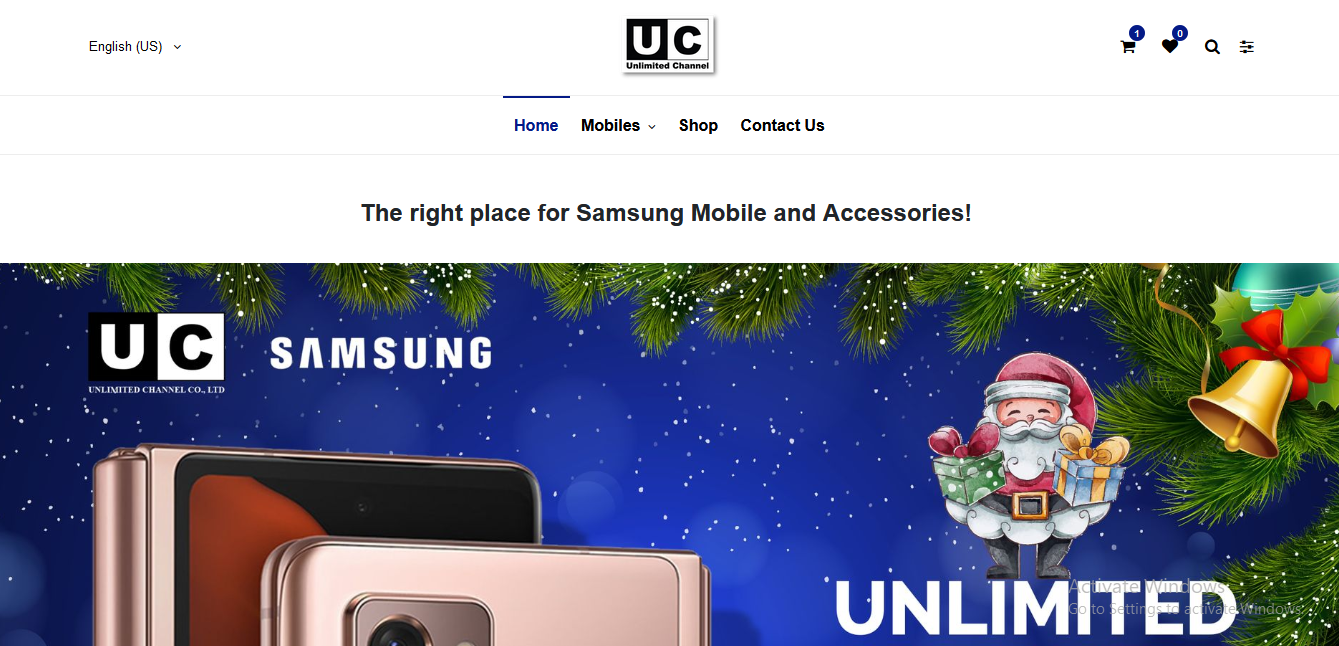
# Chapter-2 Similar Product Comparison

# Similar Product Introduction

Intro & explain & Screenshot

**Unlimited Channel Website**

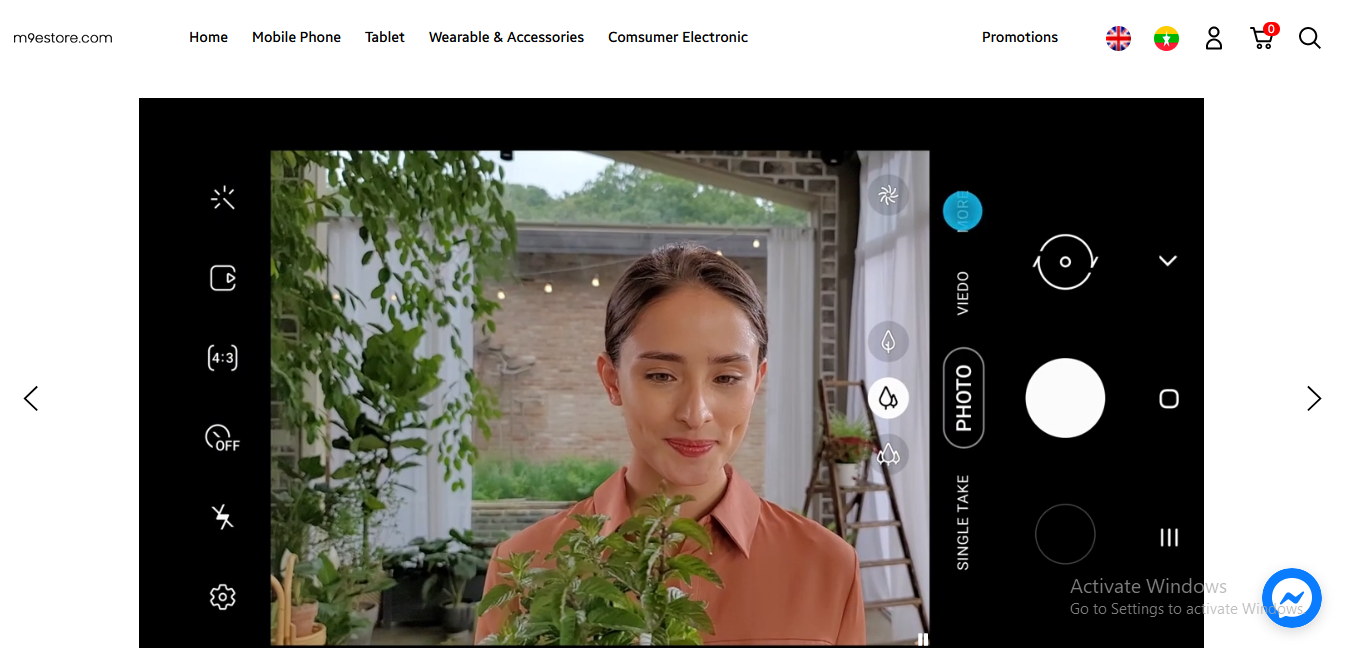
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX



**Fig (1) UC home page design**

**M9 E-Store Website**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX



**Fig (2) M9 home page design**

# Functional Comparison

**(1) Customer Registration**

**Shop.com**

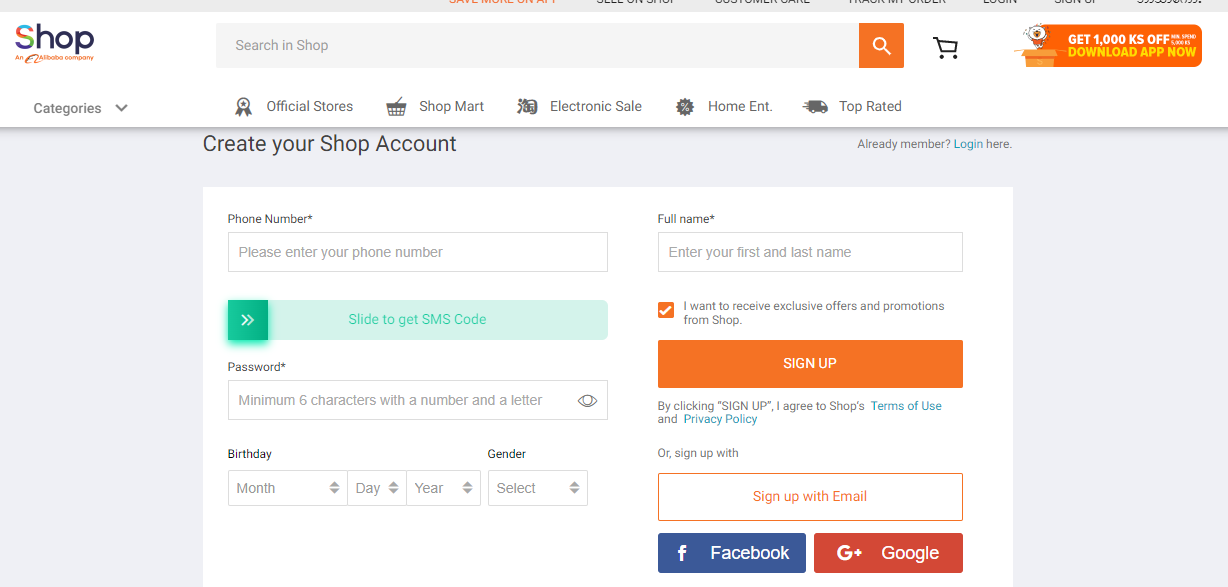


Fig (1) Customer Signup Form from Shop.com (\_\_)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

**City Mall**

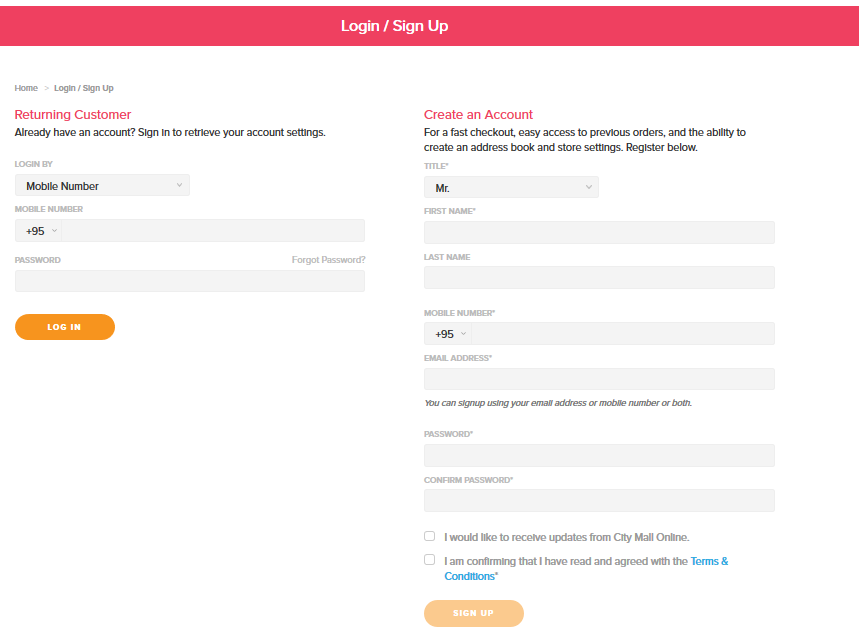


Fig (2) Customer Signup Form from City Mall

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

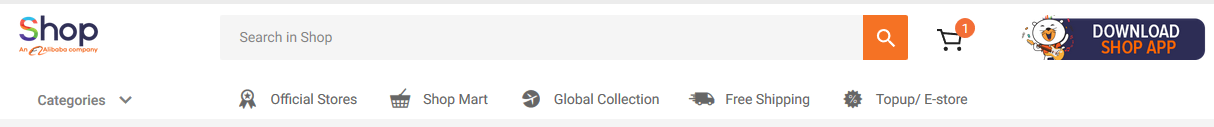
# Non-Functional Comparison

# 10 Usability Heuristics

# 1. Visibility of System Status

Explain??????????????????

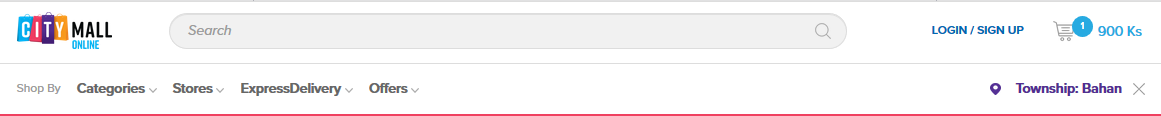
Shop.com



Explain………………

Fig (1)???

CityMall



Explain………………

Fig (2)???

1. **Functional Comparison Evaluation**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Function** | **Shop.com** | **City Mall** |
| 1 | Customer Registration | 1 2 3 **4** 5 | 1 2 3 4 **5** |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |

**Functional Comparison Summary**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.

1. **Non-Functional Comparison Evaluation**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Function** | **Shop.com** | **City Mall** |
| 1 | Visibility of System Status | 1 2 3 **4** 5 | 1 2 3 4 **5** |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |
| 9 |  |  |  |
| 10 |  |  |  |

**Non-Functional Comparison Summary**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.

Chapter-3

Feasibility Study

# Chapter-3 Feasibility Study

# Technical Feasibility

# Methodologies

# Definition

**DSDM (Agile)**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (\_\_).

**SSADM**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (\_\_).

DSDM VS SSDAM VS Waterfall VS OOAD VS RAD VS Scrum

# Strength and Weakness of each Methodology

**Strength of DSDM**

* XXX
* XXX
* XXX

**Weakness of DSDM**

* XXX
* XXX
* XXX

**Strength of SSADM**

* XXX
* XXX
* XXX

**Weakness of SSADM**

* XXX
* XXX
* XXX

# Comparison of Methodology

|  |  |  |
| --- | --- | --- |
| **Criteria** | **DSDM** | **SSADM** |
| **Timeline** |  |  |
| **Size** |  |  |
|  |  |  |
|  |  |  |

# Recommendation for Methodology

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

# Programming Languages

# Definition

**PHP**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (\_\_).

**ASP.NET VS C# VS Python VS JSP (Java)**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (\_\_).

# Strength and Weakness of each Programming Languages

**Strength of PHP**

* XXX
* XXX
* XXX

**Weakness of PHP**

* XXX
* XXX
* XXX

**Strength of ASP.NET**

* XXX
* XXX
* XXX

**Weakness of ASP.NET**

* XXX
* XXX
* XXX

# Comparison of Programming Languages

|  |  |  |
| --- | --- | --- |
| **Criteria** | **PHP** | **ASP.NET** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Recommendation for Programming Language

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

# Databases

# Definition

MYSQL

Microsoft SQL Server VS Access VS PostgreSQL VS Oracle

# Strength and Weakness of each Databases

# Comparison of Databases

|  |  |  |
| --- | --- | --- |
| **Criteria** |  |  |
|  |  |  |

# Recommendation for Programming Language

# DSDM Feasibility (DSDM eight principles)

# Possible LESPI (Legal, Ethical, Social and Professional) Issues

**Legal Issues**

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Ethical Issues**

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Social Issues**

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Professional Issues (BCS Code of Conduct)**

****

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1. **XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Chapter-4

Foundations

## 

## 4.1 Target User

The target…

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of User** | **Age** | **Computer skill / IT Literacy** | **Language skill**  **(especially English skill)** |
| Guests | 18-70 |  |  |
| Managers | ? | ? | ? |
| Operation Staff | ? | ? | ? |
|  |  |  |  |
|  |  |  |  |

## 4.2 Functional Requirement

1. **Manage Purchase Process (Timebox 1)**
   1. **Manage Staff (HL) (M)**

* Register Staff (ML)
  + Email already exists check (LL)
  + Password Length check (LL)
  + Check text Fields Null (LL)
* Update Staff
* Delete Staff
* Search Staff
* Staff Login
  1. **Manage Supplier (HL) (M)**
* Register Supplier
* Update Supplier
* Delete Supplier
* Search Supplier
  1. **Manage Brand (M)**
* Register Brand
* Update Brand
* Delete Brand
* Search Brand
  1. **Manage Category (S)**
* Register Category
* Update Category
* Delete Category
* Search Category
  1. **Manage Product (S)**
* Register Product
* Update Product
* Delete Product
* Search Product
  1. **Manage Purchase (HL) (C)**
* Record Purchase (ML)
  + Add Product (LL)
  + Remove (LL)
  + Calculate Total-Amount (LL)
  + Calculate Total-Quantity (LL)
* Confirm Purchase
* Search & Report Purchase

**Manage Order & Delivery Process (Timebox 2)**

* 1. **Manage Customer (HL)**
* Register Customer (ML)

Email already exists check (LL)

Password Length check (LL)

* Update Customer
* Delete Customer
* Search Customer
* Customer Login
  1. **Manage Order (HL)**
  2. **?**
  3. **?**
  4. **?**

## 4.3 MOSCOW Prioritization

**Must**

|  |  |
| --- | --- |
| **Must** | Justification |
| Manage Staff |  |
| Manage Supplier |
| Manage Brand |
|  |

**Should**

|  |  |
| --- | --- |
| **Should** | Justification |
|  |  |
|  |
|  |
|  |

## 4.4 Non-Functional Requirements (4)

### Usability

### Security

### Performance

### Interface

### Operational

### Resource

### Portability

### Reliability

### Maintainability

### Safety

### Recovery

## 4.5 Time box Plan

### 

### Time box 1: Manage Purchase Process Time box

|  |  |  |  |
| --- | --- | --- | --- |
| **Time box Name** | | Manage Purchase Process Time-box | |
| **Start Date** | | 29 January 2021 | |
| **End Date** | | XXX | |
| **Task** | **Duration** | **Start Date** | **End Date** |
| Functional Requirement | 1 day | July 20, 2018 | July 20, 2018 |
| Use Case Diagram | 1 day | July 20, 2018 | July 20, 2018 |
| Class Design | 1 days | July 23, 2018 | July 23, 2018 |
| Sequence Diagram | 1 days | July 23, 2018 | July 23, 2018 |
| High Level & Low-Level Prototype | 2 | ?? | ?? |
| Coding | 6 days | July 24, 2018 | July 31, 2018 |
| Functional Testing | 1 days | August 1, 2018 | August 1, 2018 |
| Usability Testing | 1 days | August 2, 2018 | August 2, 2018 |
| Time Box Summary | 1 day | August 3, 2018 | August 3, 2018 |
| **Key Deliverables (Output)**  **Design**   * Use Case Diagram for Purchase Process   **Coding**   * Manage Staff (CRUD) * Manage Supplier (CRUD)   **Testing**   * Unit Test Document * Usability Test Document * Test Cases & Test Scripts for Time-box 1 | | | |

### 

### Time box 2: XXX

### Time box 3: XXX

## 4.6 Risk Management

**Risk**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (\_\_,\_\_)

**Risk Management**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (\_\_,\_\_)

### 4.6.1 Identification of Possible Risks (10-12)

**Technical Risk**

* Virus Detect

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

* Device Lost/ Destroyed

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

* Error Detect and Project Late

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

* **Security Risk**
* **Outsourcing Risk**
* **FR NFR Requirements Risk**

**Req Changes**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

### 4.6.2 Risk Matrix (High-Medium-Low)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Risk** | **Probability** | **Impact** | **Proactive Action** | **Reactive Action** | **Risk Owner** |
| Not enough experience | Medium | Medium | Learn about business process and discussion with the user | Discuss with supervisor about project |  |
| Virus Detect |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

### 4.6.3 Critical Success Factors for current project

**Top management support**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.

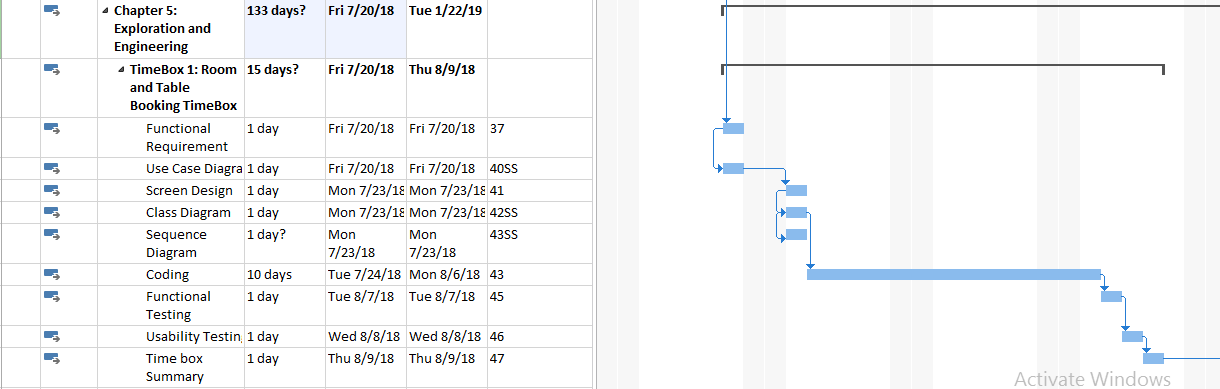
The Whole System Use Case & Class

Chapter-5

Exploration & Engineering

## 5.1 Time-box 1: Manage Purchase Time-box Development

### Project Plan for Time Box 1



### 5.1.1 Functional Requirements List

Manage Purchase Process Timebox (1)

* 1. **Manage Staff (HL)**
* Register Staff (ML)

Email already exist check (LL)

Password Length check (LL)

* Update Staff
* Delete Staff
* Search Staff
* Staff Login
  1. **Manage Supplier**
* Register Supplier
* Update Supplier
* Delete Supplier
* Search Supplier
  1. **Manage Brand**
* Register Brand
* Update Brand
* Delete Brand
* Search Brand
  1. **Manage Category**
* Register Category
* Update Category
* Delete Category
* Search Category
  1. **Manage Product**
* Register Product
* Update Product
* Delete Product
* Search Product
  1. **Manage Purchase**
* Record Purchase
* Confirm Purchase
* Search & Report Purchase

### 5.1.2 Use Case Diagram



**Use Case Description**

|  |  |
| --- | --- |
| **Use Case Name** | Record Customer |
| **Actor** | Receptionist |
| **Flow of Event** | Fill the customer details in the customer form. Register button is clicked. |

For remaining, see Appendix.

### 5.1.3 Screen Design

1. **Customer Register Form**

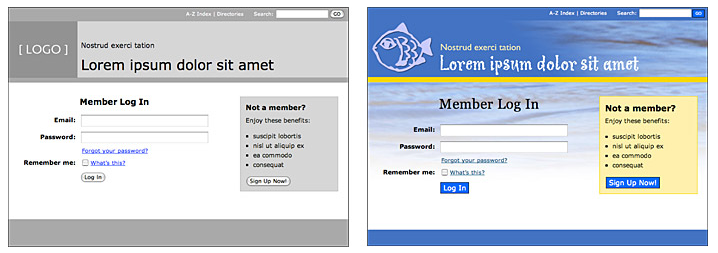


Fig (1) Low Level Prototype for Customer Registration

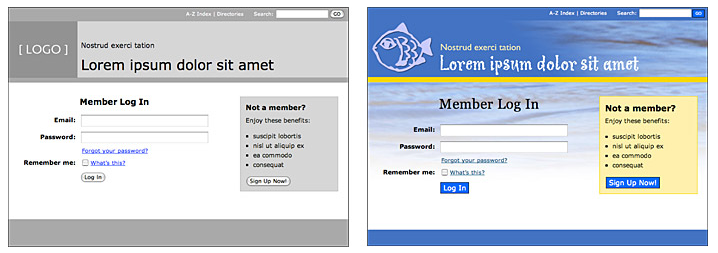


Fig (2) High Level Prototype for Customer Registration

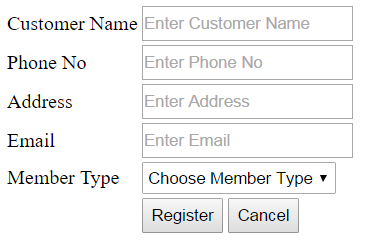
### 5.1.4 Iteration for Screen Design

**Iteration 1**

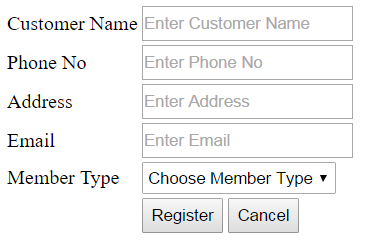
Users tell that table form and room form design are needed to change. So, table style combo box is added in table entry form and room size combo box and Facility text box is also added in room form.

**(Iteration 1) Screen Design for Customer Register Form**

**Before**

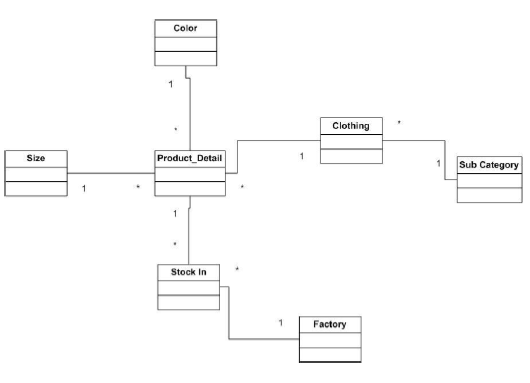


After

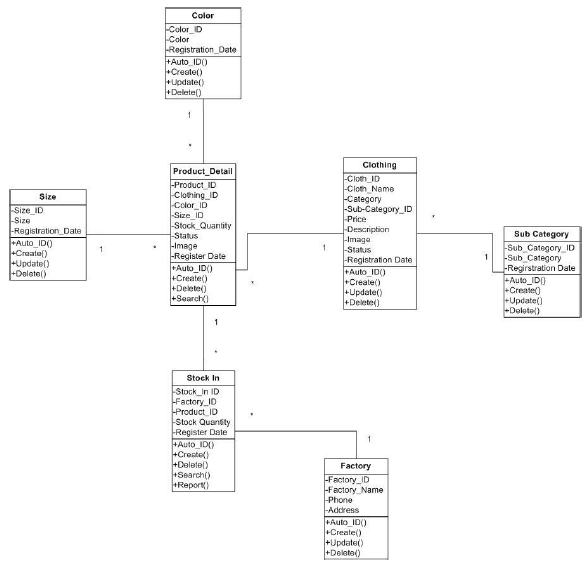


### 5.1.5 Class Diagram

#### Initial Class Diagram



#### Detailed Class Diagram



**Detail Class Definitions**

|  |  |
| --- | --- |
| **Class Name** | Customer |
| **Attributes** | Customer ID, Customer Name, Phone No, Address, Email, Member Type |
| **Operation** | Register (),Cancel (), AutoID(), Checkdata() |
| **Description** | << The **Customer** class is used to do register for customers who booked.>> |

For remaining, see Appendix.

### 5.1.6 Sequence Diagram for Booking Process



**Sequence Diagram Description**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

### 5.1.7 Functional Testing

#### Test Plan

**Module 1: Customer Entry**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Script | Description | Date | Tester |
| 1.1 | Test customer Name text box can be null or not | 17- August- 2021 | Shain Thu |
| 1.2 | Test Customer Phone no text box | 7- August- 2018 | Kyal Sin Linn |
| 1.3 | Test Customer Address text box | 7- August- 2018 | Kyal Sin Linn |
| 1.4 | Test the ‘@’ in the E mail | 7- August- 2018 | Kyal Sin Linn |
| 1.5 | Test Customer Email text box | 7- August- 2018 | Kyal Sin Linn |
| 1.6 | Test Register Button | 7- August- 2018 | Kyal Sin Linn |

**Module 2: Supplier Entry**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Script | Description | Date | Tester |
| 1.1 | Test customer Name text box | 7- August- 2018 | Kyal Sin Linn |
| 1.2 | Test Customer Phone no text box | 7- August- 2018 | Kyal Sin Linn |
| 1.3 | Test Customer Address text box | 7- August- 2018 | Kyal Sin Linn |
| 1.4 | Test the ‘@’ in the E mail | 7- August- 2018 | Kyal Sin Linn |
| 1.5 | Test Customer Email text box | 7- August- 2018 | Kyal Sin Linn |
| 1.6 | Test Register Button | 7- August- 2018 | Kyal Sin Linn |

#### Test Script (1)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Unit Test 1** | | **Test Case:** Register by data entry customers | **Designed by:** Mg Mg | |
| **Data Source:** Customer Table | | **Objective**: To test the Register of data entry customers | **Tester**: Mg Mg | |
| **Test Case** | **Description** | **Test Procedure** | **Expected Result** | **Actual Results** |
| 1.1 | Test customer Name text box | 'Register' button is clicked. Customer Name is blanked. | Show ‘Please fill out this field’ message. | See Fig.1.1 & 1.2 |

Before Testing



Fig.1.1

After Testing

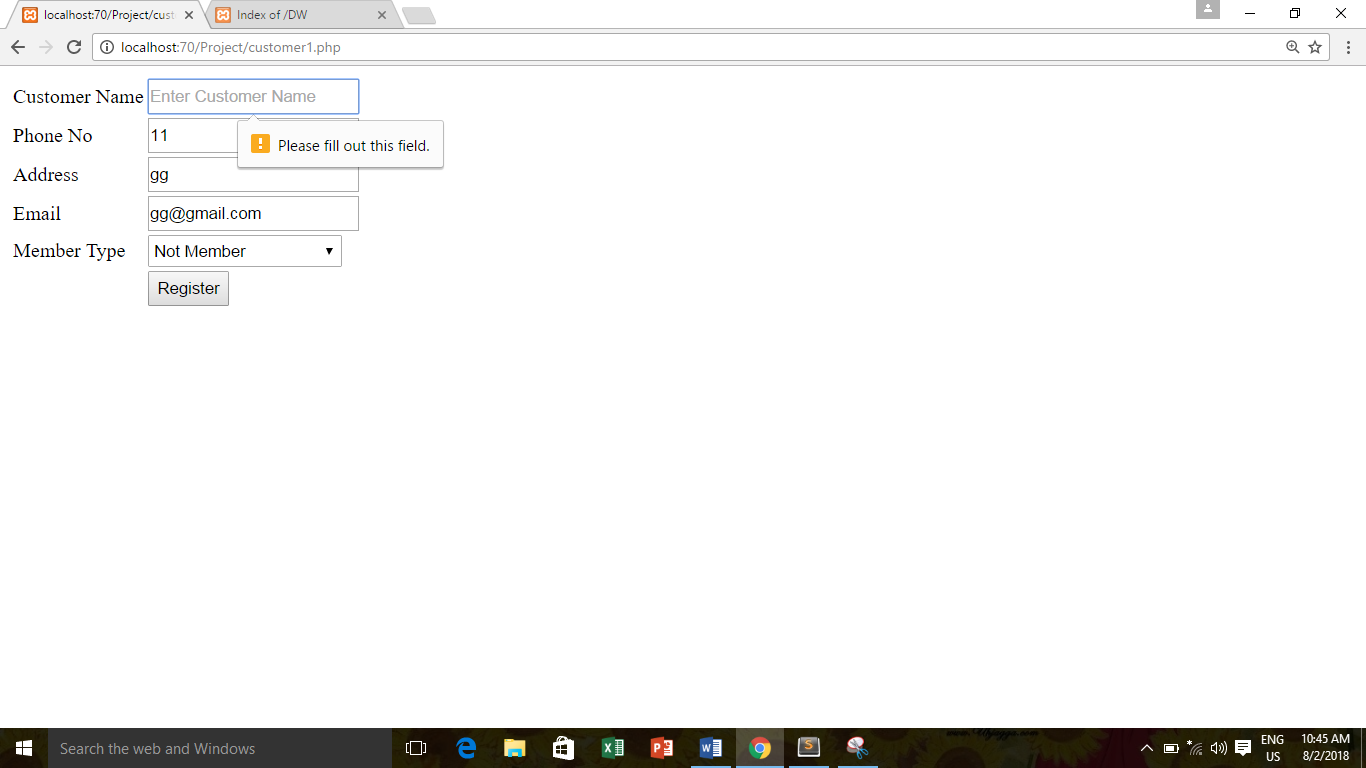


Fig.1.2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Description** | **Test Procedure** | **Expected Result** | **Actual Results** |
| 1.2 | Test Customer Phone no text box | 'Register' button is clicked. Customer Name is blanked. | Show ‘Please fill out this field’ message. | See Fig.1.2 |

Before Testing



Fig.1.1

After Testing

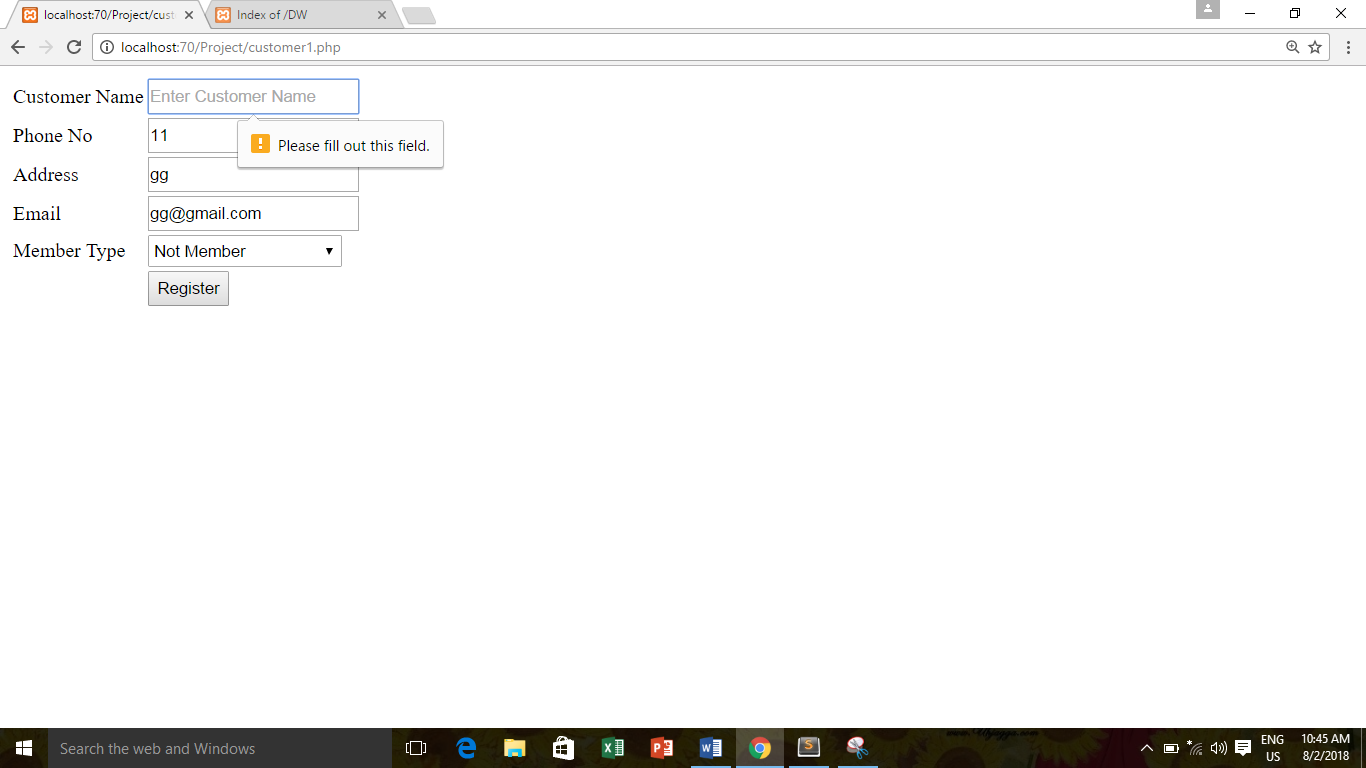
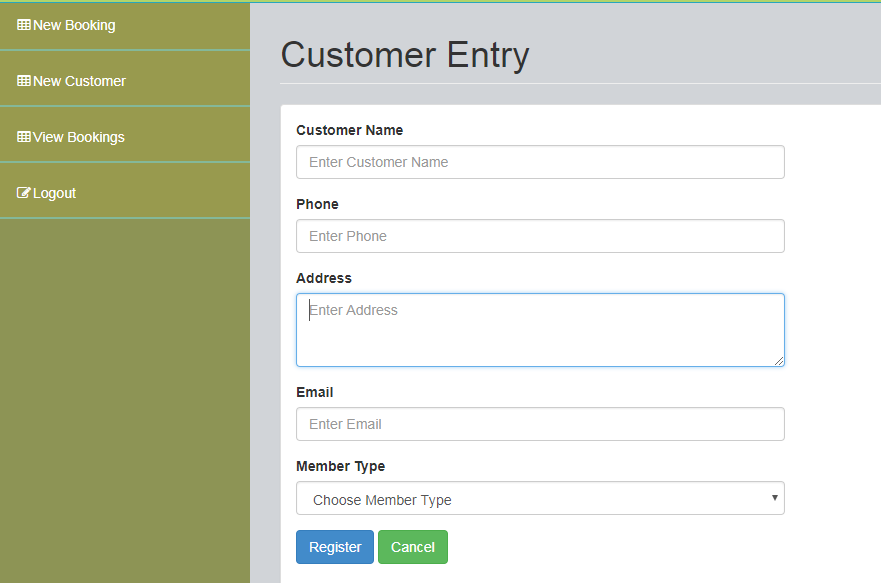


Fig.1.2

**For remaining test cases, please see Appendix.**

### 5.1.8 Usability Testing

#### Visibility of System Status



Can see text box with different color

Explain XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

#### Match between System and Real World

#### Aesthetic and Minimalist Design

#### Consistency and standard

#### Error Prevention

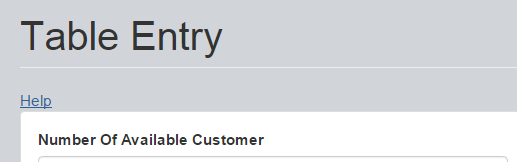
#### User Control and Freedom

### 5.1.9 Iteration for Usability Testing

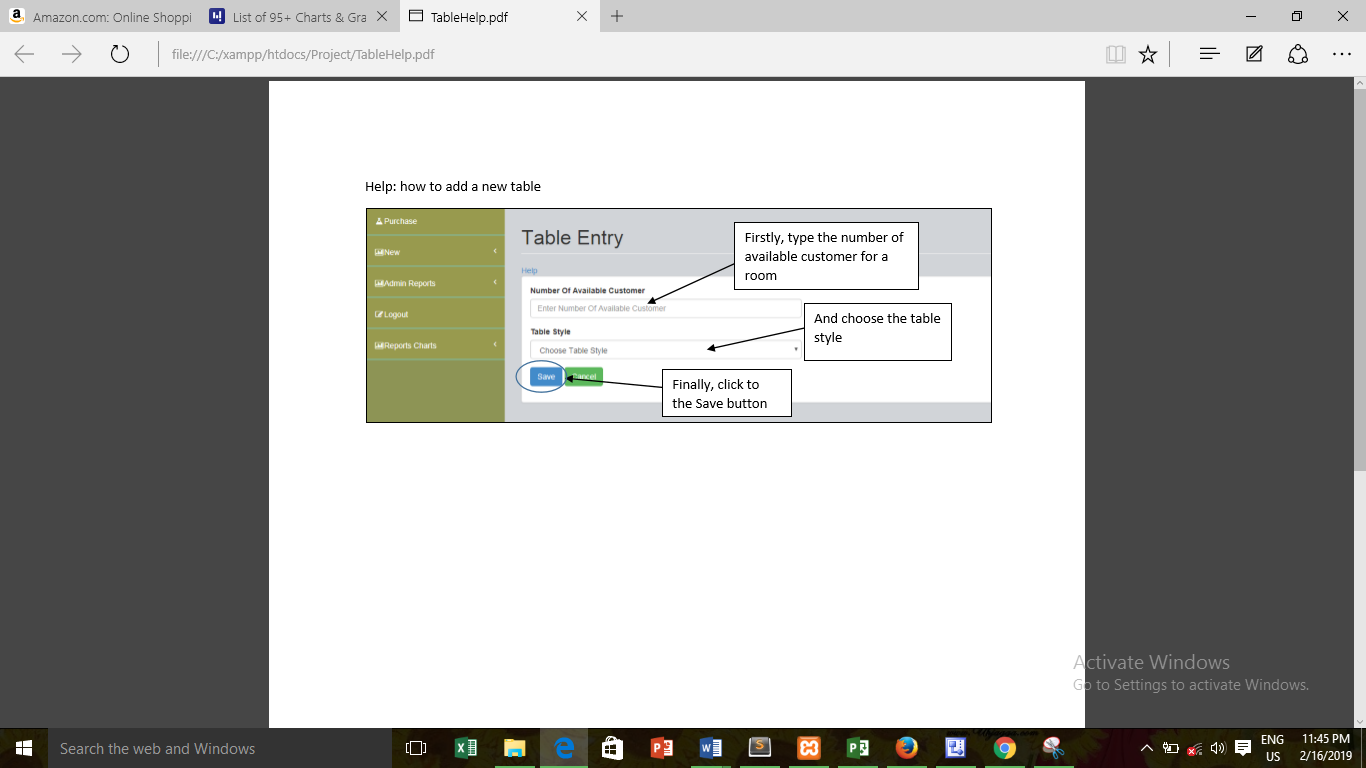
**Iteration 2**

Users tell that table form and room form design are needed to change. So, table style combo box is added in table entry form and room size combo box and Facility text box is also added in room form.

**(Iteration 2) Iteration For Visibility of System Status**



Click to the help link



### 5.1.8 Time box Summary

Work Done

Problems (Issues)

Solutions

Remaining Time-boxes

### 

CHAPTER – 6

Deployment

## 6.1 Deployment

### 6.1.1 Deployment Diagram

Explanation for diagram

<<MYSQL>>

<<Apache>>

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

## 6.2 Data Migration

### 6.2.1 Data to Migrate

Explain

|  |  |  |
| --- | --- | --- |
| Time Box | Master Data | Transaction Data |
| **Time Box 1: Table and Room Booking Time Box** | Customer, Staff, Room, Table | Booking |
|  |  |  |
|  |  |  |
|  |  |  |

### 6.2.2 Plan

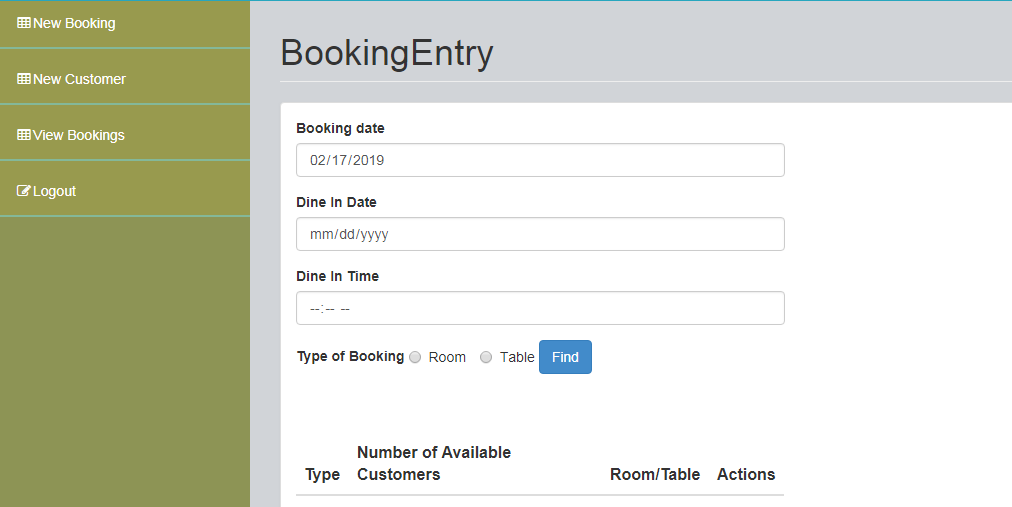
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TimeBox | Data To Migrate | Duration | Start Date | End Date | Responsible person |
| **Time Box 1: Room and Table Booking Time Box** | * Customer * Staff * Room * Table * Booking | 4 days | 9 August 2018 | 14 August 2018 | Receptionist,  Restaurant Manger |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## 6.3 Training

### 6.3.1 Training plan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Content | Trainee | Start Date | End Date | Venue | Time |
| 1 | Time Box 1   * Customer * Room * Table * Booking * Staff | Receptionist, Restaurant Manager, | 15 August 2018 | 17 August 2018 | Jame Restaurant | 5 pm – 7 pm |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

### 6.3.2 User Manual



Firstly, set the booking date

And set the booking time

After choosing the booking type click to the Find button

And Choose the booking type

### CHAPTER – 7

### CONCLUSION

### &

### EVALUATION

## 7.1 Evaluation against Aim & Objectives

### Aim

### Objective 1

Analysis –

### Objective 2

Design –

### Objective 3

Coding –

### Objective 4

Testing –

### Objective 5

Training –

## 7.2 Evaluation Against Similar System

|  |  |  |
| --- | --- | --- |
| No | My System | Incy POS |
| 1 | Visibility of System Status    The system status the selected text box in the specific color so the status of the system is said to be visible. | Visibility of System Status  C:\Users\Kyal Sin Linn\Pictures\App\Screenshot_20180713-163444.jpg  The system status the selected tab in the specific style so the status of the system is said to be visible. |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## 7.3 Evaluation against Justification Made

#### Methodology

* Selected Methodology
* Problems Encountered
* Lessons Learnt

#### Language

* Selected Languages
* Problems Encountered
* Lessons Learnt

#### Database

* Selected Database
* Problems Encountered
* Lessons Learnt

## 7.4 Evaluation against Time Box Plan

#### Time Box 1: Room and Table Booking Time Box

When making the time box plan, the end date for time box 1 is ‘August 9, 2018’. And time box 1 was finished with all the needed iteration within this date. Therefore, end date was matched with time box plan.

## 7.5 Personal Evaluation

## 7.6 Strength & Weakness of ABC POS

Strength

Weakness

## 7.7 Future Amendment

* Program
* Design
* Report

### 

### APPENDIX

## Section A: Use Case Descriptions

### Timebox 1: Room and Table Booking Timebox

## Section B: Detailed Class Definitions

### Timebox 1: Room and Table Booking Timebox

## Section C: Coding

|  |  |  |
| --- | --- | --- |
| Form | Function | Purpose |
| Ingredient Entry, Table Entry, Room Entry, Food Entry, | Save () | To save the data from the forms into the database. When SAVE button is clicked the input data are loaded into variables and then using sql statements, inserting is made. |
| Shopping Cart Functions | AddProduct() | XXXXXXXXXXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXXXXXXXX |
| Shopping Cart Functions | RemoveProduct() | XXXXXXXXXXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXXXXXXXX |
|  |  |  |
|  |  |  |

## Section D: Test Scripts

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Description** | **Test Procedure** | **Expected Result** | **Actual Results** |
| 1.3 | Test Customer Phone no text box | 'Register' button is clicked. Customer Name is blanked. | Show ‘Please fill out this field’ message. | See Fig.1.2 |

Before Testing



Fig.1.1

After Testing

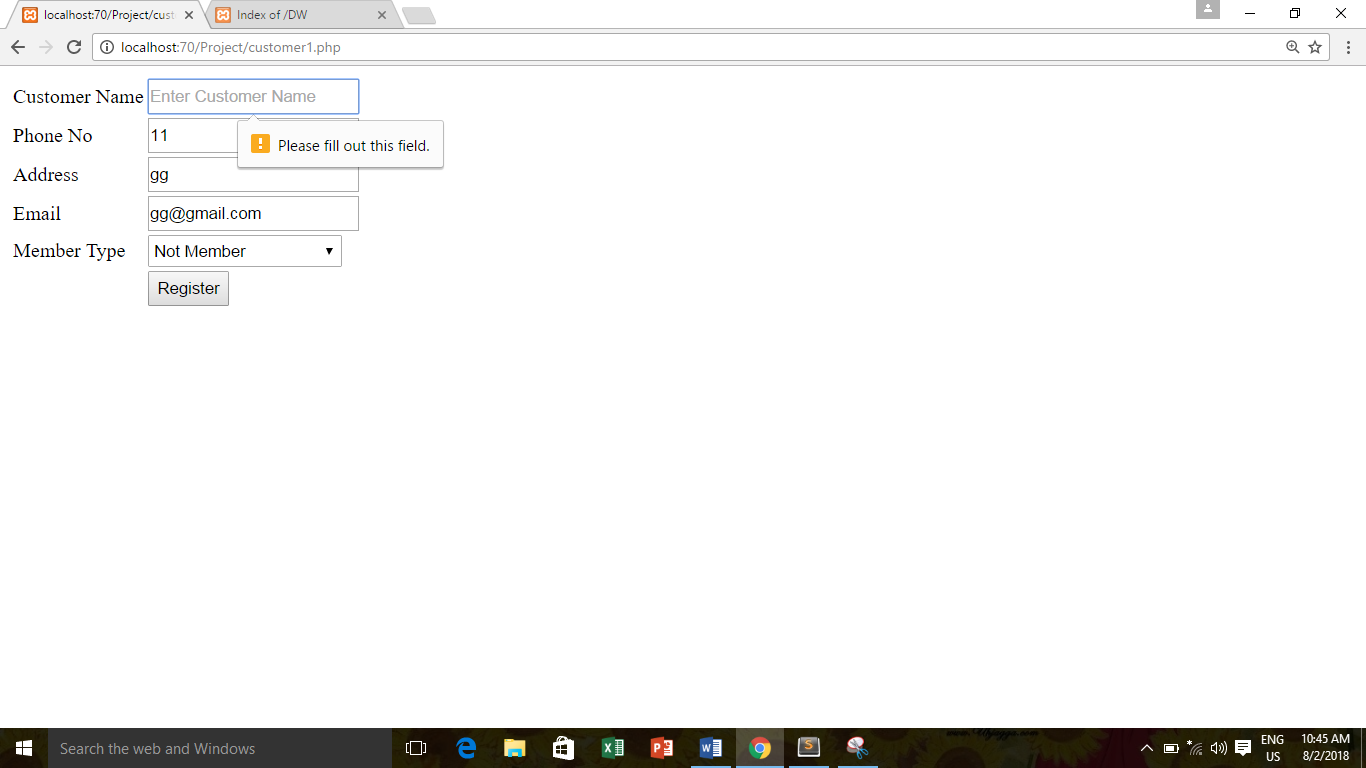


Fig.1.2

## Section F: Interview Scripts

When interview with manager

References

**References List**