

Printing & Digital Photo Shooting Service
Management System
using Web-based Application for “KING Studio”



L5DC SECTION (84)

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Abstract

Acknowledgement

Project Proposal

1. Project Proposal

1.1 Overview

Digital Photo and Video shooting service (King Studio) has been operating these services commercially in Ramree, Rakhine State. KING Studio includes photo shooting services as well as invitation card printing services. In addition to these, there are printing on shirt and fan. Other competitors in the same business have become fiercely competitive in the past one or two years, and many same businesses have emerged. So, the KING Studio owner, Jonny Bone, want to expand his ecommerce. The owner used social media platform such as Facebook to persuade the customers and receive the orders. This method was very effective but there were issues to keep the orders aka the data to record systematically and to response the orders correctly when many orders were ordered. So that it was decided to persuade the customers by developing the newest website in public network hosting on reliable one.

The owner wants to develop some kind of process like purchase process, order process, booking process and the others in this program. The customers have to register before they become the member of this website. After that, they can buy the packages for either photo or video shooting or both. They will have different prices for different places and different demands. For example, if they don't buy the packages that is already have, they can order as a special order by booking choosing the different prices. The only admin will monitor and manage the product and the data of staff. To protect the malicious injection, the place of username input will be controlled by limiting special characters input. The design of website must be simple and useable.

1.2 Current Business History

When King Studio was first established, it was called "White Flower Studio". The White Flower Studio was opened in 2004. At that time, only photography was valid because the films were mainly used to take photo shooting and there was budget issue to buy video camera. In that year, the room where we can see only dim light form electric bulb and full of dark, was used to get a colorful photo. Many hours were spent to get complete photos.

After years changed to 2006, with the advancement of digital technology, digital cameras are installed in the studio and PCs were also upgraded. Along with these progressive changes, the Studio's name has also been changed to "King Studio". Then, step by step, add other services such as invitation card printing and editing video and the studio was upgraded by this way. At that time, there were not many competitors in that field, so the income was smooth. But in some places, the studio was got some difficulties and mistakes. As the data

aka orders are saved with physically on books and papers, Studio got losing data and incorrect data. The studio has been moved to another place where in the same township but different place in 2012. The owner felt that the income was not as good as in the beginning. That is why, he added another service, printing on shirt and fan. The income was stable for 3-5 years, but after that, the competition becomes more and more, the income became irregular. Sometimes there were financial losses due to spam calls. Therefore, the owner wanted to properly check orders and money in and out, and made a decision to develop an e-commerce website so that customers can order easily even from a distance.

1.3 Current Business Process

1.3.1 Purchase Process

This process is divided into two parts. The first one is a payment that the cost is calculated once and paid for complete service. The second thing is to pay the deposit and then give the rest of the money after receiving complete service.

1.3.2 Payment Process

For the convenience of customers, three or four payment methods have been specified. They are that customers can pay by smart card, online system or cash.

1.3.3 Refund Process

This part is paid back by King Studio when it makes mistake at giving services. For example, when printing an invitation card, the information is entered incorrectly, at that time the Studio will make a new one or refund the money.

1.3.4 Promotion Process

The promotion program is given a discount when a customer buys a certain packet. For religious events or traditional events, there are also donations and discounted prices.

1.4 Current Business Issues (Manual System Issues)

1.4.1 Accepting orders issue

Currently, orders are received either through social media or by phone calls. An issue, that is recording data incorrectly, is found there when receiving many orders at the same time. The orders information can be record though, for example, sometimes the problems are found

that accepting photo shooting or video shooting in about three places in one day, when the date of photo shooting is accepted without noticing.

1.4.2 Untrusted orders issue

When accepting orders online or by phone call, some are trolling, and other orders are canceled days after being accepted. Then there is loss of money and time.

1.4.3 Staff Attendance Management issue

This studio has a sufficient number of employees, but since there is no plan to collect daily attendance of the employees, it is no longer possible to know for sure who is coming. Also, when the Studio is crowded, there is not enough manpower, so it is not possible to provide enough service to the customers.

1.5 Proposed System Scope

Within the scope of King Studio Website, there will be two settings, one for customers and one for admin. Customers can search a suitable packages or somethings and order or purchase for them in their side. Before doing previous thing, they need to register and login. Just like customer side, the admin has to register at first time and login to enter his page. After that he can check the orders, add new items and manage the other finical process and data.

Customer

1.5.1 Register Process

The new customers have to register first purposed that they want to buy the packages and other services.

1.5.2 Login & Logout Process

After logging in and verifying that the registrant is correct, they will be able to enter King Studio's website. And then, they can logout from website by clicking a simple button if they want.

1.5.3 Booking Process

In this section, customers can order existing packages or book as special orders for items that have not been imported. When they order for something like invitation card printing and printing on shirt or fan, they can upload their files (Microsoft words, PageMaker, Adobe Photoshop, jpg file, etc....) in upload file place and write down their messages of they want in textbox. Supporting it is case that the date which a customer pre-book for photo or video

shooting is reached to the specified number of acceptances, that date will be unavailable for booking.

1.5.4 Purchase Process

As a purchase process, customers can pay the cost of service all at once, or they can pay in advance. For the convenience of the customer, the payment is divided into 2 and 3 types.

1.5.5 Searching items/ packages Process

Customer can search for packages they want by typing words in search box on the Packet Page.

1.5.6 Order Details

Customers have to fill out about order details such as quantity, description, file uploading and choosing date after they've click "BUY" button.

1.5.7 Checkout Process

Before final payment for packages, customers can review their order or book on the checkout page and can cancel or add the other orders.

1.5.8 Manage Account Process

Customers can change their user's name, Gmail address and password even if they have already registered their information.

1.5.9 Giving Feedback Process

There will be feedback section where customers can write about what Studio require to add, what customers actually need and others.

1.5.10 Delivery Process

If customers have ordered things like invitation card printing, they can choose whether to pick up the item at the studio or have it delivered. And if they choose Delivery, they must write down the full address of the delivery address. And then delivery man will deliver to this location.

Admin

1.5.11 Login & Logout Process

The admin doesn't need to register to login. User name and password are already specified earlier by developer.

1.5.12 Manage described items/ packages Process

After that, admin either can add the new packages aka other available ones or can remove the packages which is on King Studio's website.

1.5.13 Manage Staff Data Process

As owner also want to know and manage carefully about staff data, this process is added. In this process, admin have to input each staff data first before managing their data, after that, Staff attendance collection will also be done by the admin.

1.5.14 Monitoring orders Process

Just in case that admin can check orders, he can inquire in advance with phone call or emails about the order which is not clear and orders as part of payment in advance.

1.5.15 Manage available date for photo or video shooting

In the system, a day is limited to one or two plans for photo shooting, but the admin can control the important days as he likes. It means, he can change to an available day even if it reaches to its limit or an unavailable day even if there is no plan for that date.

1.6 Aims and Objectives

1.6.1 Aims

The aim of developing to this KING Studio's website is to persuade the customers more than the other commercial competitors by giving good service with user convenience. The main feature that is different from others is that they have reserve funds for the purchase. And the ordered can also be delivered to certain location.

1.6.2 Objectives

Analysis

➤ Requirements Collection

- To use an appropriate computer language or platform
- To have suitable photos to be included on the website
- To have specific designs, logos and fonts
- Simple and easy to use
- To have a clear understanding of the business to be developed
- To advertise on a social media platform

Design

Use case Diagram and Class Diagram will be used to develop this website. Drawing these diagrams first will help to write coding faster, easy to understand about this project structure and predict the risks.

Implementation

The programming language such as HTML, CSS, SQL, PHP and java script will be used to implement this program.

Evaluation

1.7 Estimate Cost and Duration

1.7.1 Hardware Cost

No	Item	Description	Unit Price	Quantity	Sub-Total
1	Laptop	MSI, GF63 THIN 10SC-035, 15.6 Inches, Black, Hard Disk size – 1TB, corei5-10300H, 8 GB, NVIDA GeForce,GTX 1650	\$ 619	2	\$1238
2	Printer	Epson, Workforce WF-2930 Wireless All-in-One Color Inkjet Printer with Built-in Scanner, Copier, Fax and Auto Document Feeder, Model - C11CK63201	\$110	1	\$110
3	Cooling Pad	Top Mate C302, Cooling stand with 2 Quiet Big Fans, Built-in USB Cable Plug	\$17	2	\$34
Total Hardware Cost					\$1382

1.7.2 Software Cost

No	Item	Description	Unit Price	Quantity	Sub-Total
1	Operating System	Window 11 Pro	\$120	2	\$240
2	Antivirus	AVG (Business Edition)	\$36	2	\$72
3	Browser	Chrome, Firefox (Free)	\$0	0	\$0
Total Software Cost					\$312

1.7.3 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	\$3000	1	\$3000
2	Hosting Cost	Net Scripter	\$88	1 year	\$88
3	Domain Name Registration	.com	\$95.52	1 year	\$95.52
Total Development Cost					\$3183.52

Summary Cost

Category	Cost
Software	\$1382
Hardware	\$312
Development	\$3183.52
Total	\$ 4877.52

1.8 Project Plan (Gantt chart)



Fig (1) Project Proposal

Chapter-1

Introduction

1. Chapter – 1 Introduction

1.1 Background of the Current System

History

When King Studio was first established, it was called "White Flower Studio". The White Flower Studio was opened in 2004. At that time, only photography was valid because the films were mainly used to take photo shooting and there was budget issue to buy video camera. In that year, the room where we can see only dim light from electric bulb and full of dark, was used to get a colorful photo. Many hours were spent to get complete photos.

After years changed to 2006, with the advancement of digital technology, digital cameras are installed in the studio and PCs were also upgraded. Along with these progressive changes, the Studio's name has also been changed to "King Studio". Then, step by step, add other services such as invitation card printing and editing video and the studio was upgraded by this way. At that time, there were not many competitors in that field, so the income was smooth. But in some places, the studio was got some difficulties and mistakes. As the data aka orders are saved with physically on books and papers, Studio got losing data and incorrect data.

The studio has been moved to another place where in the same township but different place in 2012. The owner felt that the income was not as good as in the beginning. That is why, he added another service, printing on shirt and fan. The income was stable for 3-5 years, but after that, the competition becomes more and more, the income became irregular. Sometimes there were financial losses due to spam calls. Therefore, the owner wanted to properly check orders and money in and out, and made a decision to develop an e-commerce website so that customers can order easily even from a distance.

Current Business Process

Purchase Process

This process is divided into two parts. The first one is a payment that the cost is calculated once and paid for complete service. The second thing is to pay the deposit and then give the rest of the money after receiving complete service.

Payment Process

For the convenience of customers, three or four payment methods have been specified. They are that customers can pay by smart card, online system or cash.

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This part is paid back by King Studio when it makes mistake at giving services. For example, when printing an invitation card, the information is entered incorrectly, at that time the Studio will make a new one or refund the money.

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The promotion program is given a discount when a customer buys a certain packet. For religious events or traditional events, there are also donations and discounted prices.

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Currently, orders are received either through social media or by phone calls. An issue, that is recording data incorrectly, is found there when receiving many orders at the same time. The orders information can be record though, for example, sometimes the problems are found that accepting photo shooting or video shooting in about three places in one day, when the date of photo shooting is accepted without noticing.

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Staff Attendance Management issue

This studio has a sufficient number of employees, but since there is no plan to collect daily attendance of the employees, it is no longer possible to know for sure who is coming. Also, when the Studio is crowded, there is not enough manpower, so it is not possible to provide enough service to the customers.

1.2 SWOT Analysis

Strengths

- Being able to get both photography service and printing service in one place
- Getting good printing quality
- Having professional photographers for photography
- Having promotions
- Always prioritizing customer service

- Getting refunds by customers

Weaknesses

- Incorrect recording of orders
- Sometimes the customer's desired design is not available
- Not being able to handle staff attendance and salary accurately
- Rejecting some orders when there are too many
- Lack of dedicated staff to deliver orders

Opportunities

- To shoot for brand product advertisements
- Being patient and being able to produce good quality can get a lot of customers
- Getting more orders if we get good reviews from customers
- If the STUDIO gets more orders and become well-known, it can branch many studios and hire more employees

Threats

- Rising prices of raw materials
- Social media accounts accepting orders can be hacked
- Unable to finish on time due to some evasive staff and unskilled staff
- Competition is increasing year by year

1.3 Proposed System Scope

Within the scope of King Studio Website, there will be two settings, one for customers and one for admin. Customers can search a suitable packages or somethings and order or purchase for them in their side. Before doing previous thing, they need to register and login. Just like customer side, the admin has to register at first time and login to enter his page. After that he can check the orders, add new items and manage the other finical process and data.

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As owner also want to know and manage carefully about staff data, this process is added. In this process, admin have to input each staff data first before managing their data, after that, Staff attendance collection will also be done by the admin.

Monitoring orders Process

Just in case that admin can check orders, he can inquire in advance with phone call or emails about the order which is not clear and orders as part of payment in advance.

Manage available date for photo or video shooting

In the system, a day is limited to one or two plans for photo shooting, but the admin can control the important days as he likes. It means, he can change to an available day even if it reaches to its limit or an unavailable day even if there is no plan for that date.

1.4 Aims & Objectives of the Project

1.4.1 Aims

The aim of developing to this KING Studio's website is to persuade the customers more than the other commercial competitors by giving good service with user convenience. The main feature that is different from others is that they have reserve funds for the purchase. And the ordered can also be delivered to certain location.

1.4.2 Objectives

Analysis

➤ Requirements Collection

- To use an appropriate computer language and editor
- To have suitable photos to be included on the website
- To have specific designs, logos and fonts
- Simple and easy to use
- To have a clear understanding of the business to be developed
- To advertise on a social media platform

Design

Use case Diagram and Class Diagram will be used to develop this website. Drawing these diagrams first will help to write coding faster, easy to understand about this project structure and predict the risks.

Implementation

The programming language such as HTML, CSS, SQL, PHP and java script will be used to implement this program.

1.5 Short overview of the remaining chapters

Chapter 1 is a chapter that contains ideas and details about the website and how it will be done. This chapter includes an overview of the business that will be converted to a computerized system, as well as current business issues and the process involved when converting to a computerized system.

Chapter-2

Similar Product Comparison (Investigation)

2. Chapter-2 Similar Product Comparison

2.1 Similar Product Introduction

Finding websites that offer both photography and printing services is difficult. However, I have found two websites similar to the project we are going to do now. The main activity of these websites is to sell printing services. Similar differences will be discussed further below.

Bay Photo Website

The Bay Photo Website is a website provided by the Printing Service, where you can also obtain poster, vinyl, photo album, as well as other Canvas prints. Home page Design, on the other hand, regularly features the navigation bar and the slide show below, and then promotions and other information.

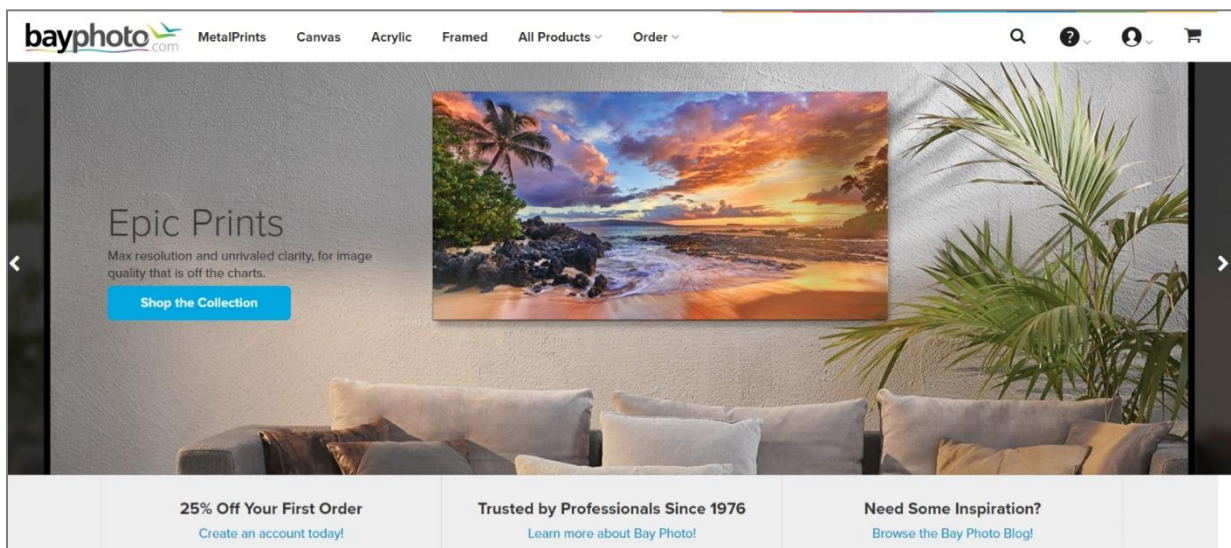


Fig (1) Bay Photo home page design

Walmart Photo Website

The Walmart Photo Website is also a printing service website, so the website contains calendar printing, photo printing, and other printing services related to printing. The Design section of the home page contains the usual navigation bar and a Slide show below.

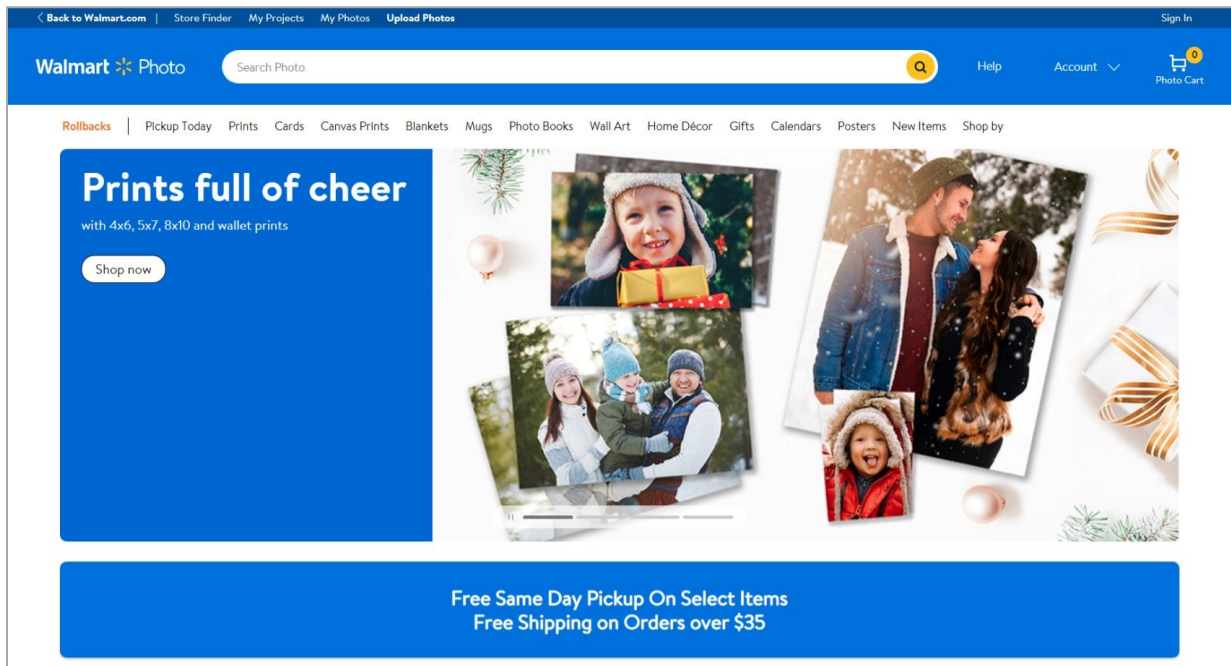


Fig (2) Walmart home page design

2.2 Functional Comparison

2.2.1 Customer Registration Form

bayphoto.com ([Professional Photo Printing Products & Services | Bay Photo Lab](#))

The screenshot shows the 'Create a new account' page on bayphoto.com. At the top is the bayphoto.com logo. Below it, the heading 'Create a new account' is followed by the text 'or login to manage your existing account.' A green banner offers a '25% off your first order!' discount, with a note to check email for details. The form fields are organized into several sections: 1. Personal Information: 'First name*' and 'Last name*' text boxes. 2. Business Information: 'Company or studio name' text box. 3. Contact Information: 'Email*' and 'Re-type email*' text boxes. 4. Passwords: 'Password*' (with a note 'No special characters, 12 max') and 'Re-type password*' text boxes. 5. Address: 'Street address*' text box, 'Apt or suite' text box, 'City*' text box, 'State*' dropdown menu (showing 'Select One'), 'Zip*' text box, and 'Country*' dropdown menu (showing 'United States'). 6. Phone: 'Phone*' text box and 'Alternate phone' text box. 7. Professional Details: 'Type of photographer*' dropdown menu (showing 'Full Time Pro') and 'URL' text box. 8. Referral: 'How did you hear about Bay Photo Lab?' text box. 9. Feedback: A checkbox labeled 'I have a question for Bay Photo'. 10. Payment: A section titled 'Payment Method (Optional)' with a button 'Add a default Credit Card'. At the bottom is a large green 'Create New Account' button and a small link 'Put a Resale Certificate on File'.

bayphoto.com

Create a new account
or login to manage your existing account.

Get 25% off your first order!
Check your email for details after filling out this form.

First name* Last name*

First name Last name

Company or studio name

Company or studio name

Email* Re-type email*

Email Re-Type email

Password* No special characters, 12 max Re-type password*

Street address*

Street Address

Apt or suite

Apt or Suite

City* State*

City Select One

Zip* Country*

Zip United States

Phone* Alternate phone

Phone Alternate phone

Type of photographer* URL

Full Time Pro http://

How did you hear about Bay Photo Lab?

☐ I have a question for Bay Photo

Payment Method (Optional)

Add a default Credit Card

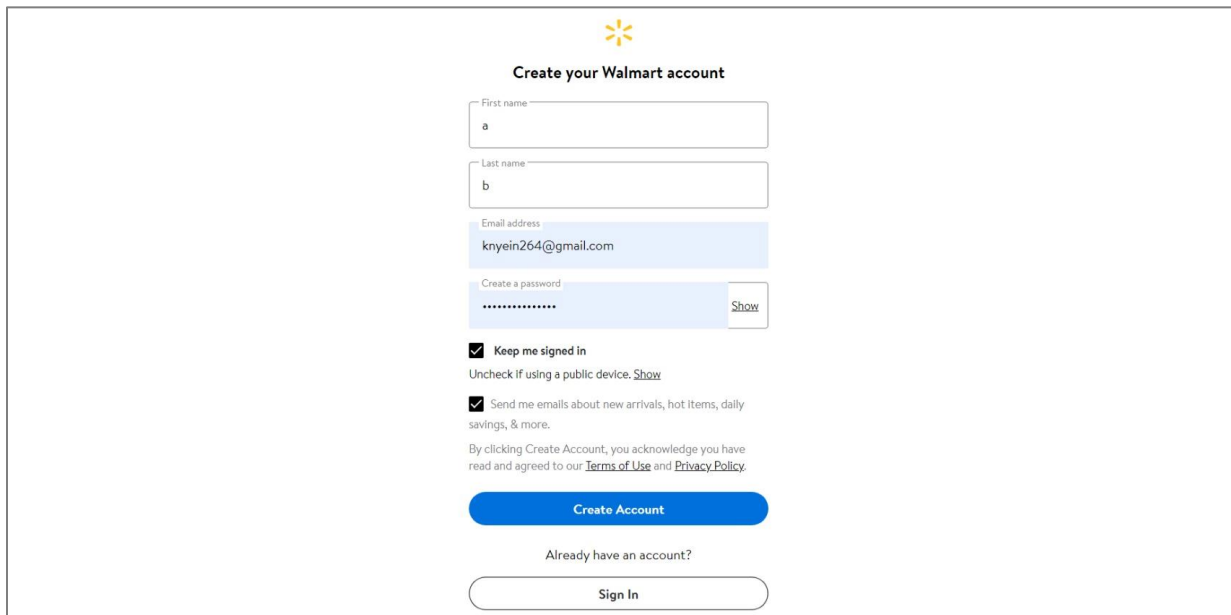
Create New Account

[Put a Resale Certificate on File](#)

Fig (1) Customer Signup Form from bayphoto.com (___)

This picture is customer register form aka Signup form of Bay photo. First name, Last name, E-mail, Password, Address, Zip code and Phone Number have to be fill up first. After that, it is need to re-type E-mail and Password again to ensure. And then, it is also having to fill out Type of Photographer and website or social media account's URL. Finally, you will be asked how you heard about this website. If customers have accepted the policy of this website and clicked "create an account", they would buy printing services.

Walmartphoto.com ([Photo Prints](#) | [Custom Cards](#) | [Photo Gifts](#) | [Walmart Photo](#))



The screenshot shows a web form titled "Create your Walmart account" with a yellow Walmart logo at the top. The form contains the following fields and elements:

- First name:** A text input field containing the letter "a".
- Last name:** A text input field containing the letter "b".
- Email address:** A text input field containing "knyein264@gmail.com".
- Create a password:** A password input field with a "Show" button to toggle visibility.
- Keep me signed in:** A checked checkbox.
- Send me emails:** A checked checkbox with the text "Send me emails about new arrivals, hot items, daily savings, & more."
- Terms and Policy:** A line of text stating "By clicking Create Account, you acknowledge you have read and agreed to our [Terms of Use](#) and [Privacy Policy](#)."
- Create Account:** A prominent blue button.
- Already have an account?:** A link text above a "Sign In" button.

Fig (2) Customer Signup Form from Walmart Photo

In this website, you only need to fill in first name, last name, e-mail, password and policy. When entering a password, customers have to type it according to the specified index to prevent password attacking. And when you exit the page while entering information, users don't have to re-enter the information from the beginning. Because they recorded the session key, if users go back to the page to create an account, they can see the information they filled in the first time after filling in the email address that the website provided.

2.2.2 Calendar Options Form

Bayphoto.com ([Professional Photo Printing Products & Services | Bay Photo Lab](#))

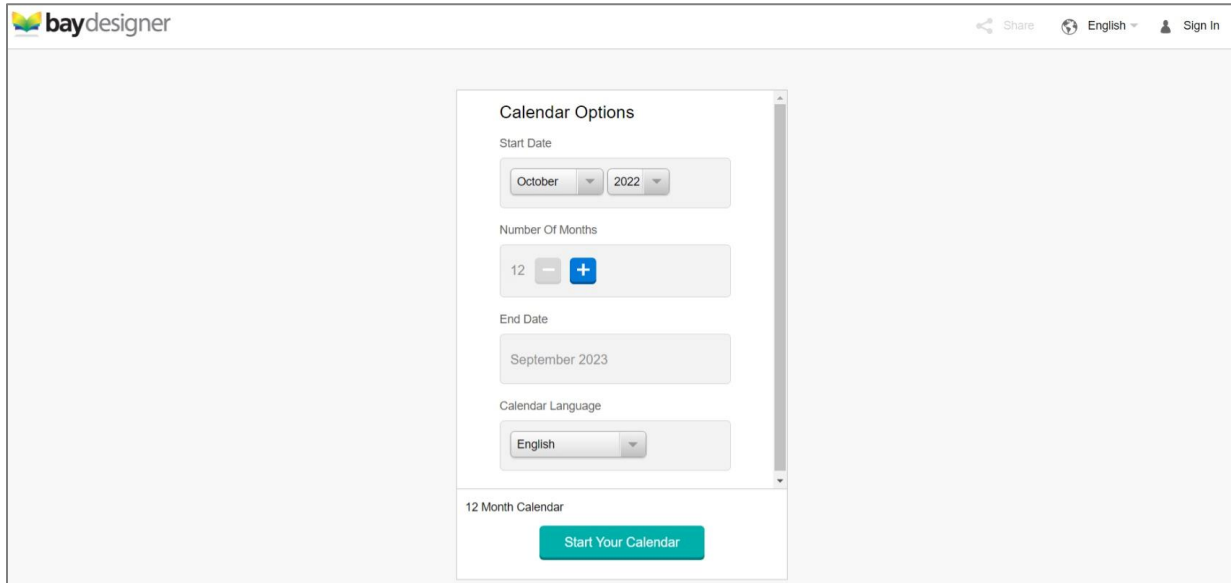
The image shows a web browser window with the Bayphoto.com logo in the top left corner. The main content area displays a 'Calendar Options' form. The form includes a 'Start Date' section with dropdown menus for 'October' and '2022'. Below this is a 'Number Of Months' section with a numeric input set to '12' and minus/plus buttons. The 'End Date' section shows 'September 2023'. The 'Calendar Language' section has a dropdown menu set to 'English'. At the bottom of the form, it says '12 Month Calendar' and features a teal 'Start Your Calendar' button. The browser's address bar shows the URL 'bayphoto.com' and the page title 'Professional Photo Printing Products & Services | Bay Photo Lab'.

Fig (3) Calendar Options Form from Walmart Photo

This is calendar options page where customers have to fill out some information (Start Date, Number of Months, End Date and Calendar Languages) as they want to do after they chose calendar printing service. There are many services like this calendar printing and other printing services there. As a member of this website or as a guest, services can be ordered but customers will be able to do payment only if they are members of this. After clicking “Start Your Calendar” button, the users can input their images as they like. And then, it will be got into a shopping cart.

Full Photo

Size: 8"x11"

8"x11"

11"x14"

12"x12"

Number of Months: Choose an option

12

18

Starting Month: January, 2023

January, 2023

▼

Home Delivery (See checkout for delivery times)

From \$12.96

Same Day Pickup

Create Now

We no longer offer Site to Store orders

Try home delivery with free shipping on orders over \$35 or free same day pickup on select items.

January 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15

Fig (4) Calendar Options Form from Walmart Photo

In this Walmart Photo website, after choosing printing service order for calendar, the customers must fill out the size of calendar, Number of Months and Starting Month in this calendar option page. The left section of image will change its size when the size from the right section the customer choose change. After clicking create now button, on the next page, customers can add images they want. And then this order will be recorded at shopping cart.

2.2.3 Shopping Cart

Bayphoto.com ([Professional Photo Printing Products & Services | Bay Photo Lab](#))

The screenshot displays the Bayphoto.com shopping cart. At the top, the 'baydesigner' logo is on the left, and a language dropdown set to 'English' is on the right. A progress bar below the logo shows four steps: 'Cart Summary' (active), 'Shipping/Billing', 'Payment', and 'Confirmation'. On the left side, a promotional banner for '40% OFF! Sample Album' is visible, along with a note about the 'STUDIO40' promo code. The main cart area, titled 'Cart Summary', lists 'Item 1' with details: 'Project Name: hello', 'Monthly Calendar Style CM18', and '12 Pages'. It shows a quantity of 1 and a price of \$1.54. Below this, 'Product Options' are listed: 'Calendar Options' with 'Semi-Gloss Smooth Paper' (\$0.00) and 'Page Paper Options' with '11x17 single-sided calendar pages' (\$18.48). The 'Item Total' is \$20.02. On the right, a summary box shows 'Item Total: \$20.02', 'Shipping Cost: \$10.99', and 'Order Total: \$31.01'. A 'Support' section provides contact information. At the bottom, there are 'Cancel' and 'Continue' buttons.

Item 1	Quantity	Price
Project Name: hello Monthly Calendar Style CM18 12 Pages	1	\$1.54
Product Options Hide		
Calendar Options:		
Semi-Gloss Smooth Paper	Change	\$0.00
Page Paper Options:		
11x17 single-sided calendar pages		\$18.48
Item Total:		\$20.02

Fig (5) Shopping Cart of Bay Photo


Customers will be able to order one item per a time. In this shopping cart, the project name, the calendar style and how many pages include are shown firstly. And customers can change the quantity of items and they can also choose paper for calendar. After that Page Paper Option is shown with price. The total price is shown in last and it is dynamic type. It can change its amount by quantity or paper quality. If customers supposed to cancel order, they can do by simply clicking "Cancel" button or they can pay billing by clicking "Continue" button.

Walmartphoto.com

Your photo cart: 1 item

Ship to your address

Note: You haven't filled all available image slots. Are you sure you want to place your order?



Project Name

Number of Months: 18 Size: 12"x12"

Qty

1

\$25.96

Edit | Delete | Save for later

ZIP Code (required)

ZIP Code

Please enter a valid ZIP Code.

Ok Cancel

Change

ig, taxes & fees

Subtotal

\$25.96

Check Out

For your convenience, all photos uploaded are also saved to 'My Photos'

Continue Shopping

Home Delivery (See checkout for delivery times)

Fig (6) Shopping Cart of Walmart Photo

In this Walmart Website, customer can order more than one item per time. Customers can choose quantity as they want and the total amount will be calculated automatically and also home delivery. Zip Code need to be fill out by customers. Customers can delete, edit and save for later this cart. If they want to order others item, they can choose Continue Shopping or they can choose Check Out provided that they supposed to check out.

2.3 Non-Functional Comparison

2.3.1 Visibility of Order Status

Bayphoto.com ([Professional Photo Printing Products & Services | Bay Photo Lab](#))

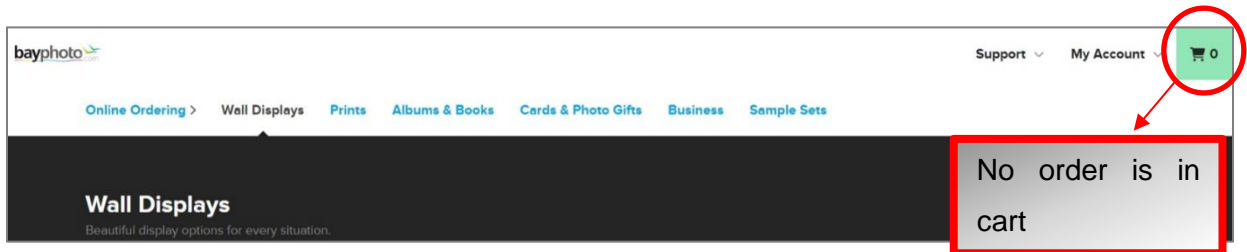


Fig (1) Visibility of Order Status from Bay Photo

When no order is prepared in shopping cart, the shopping cart icon will show zero status in navigation bar.

Walmartphoto.com ([Photo Prints | Custom Cards | Photo Gifts | Walmart Photo](#))

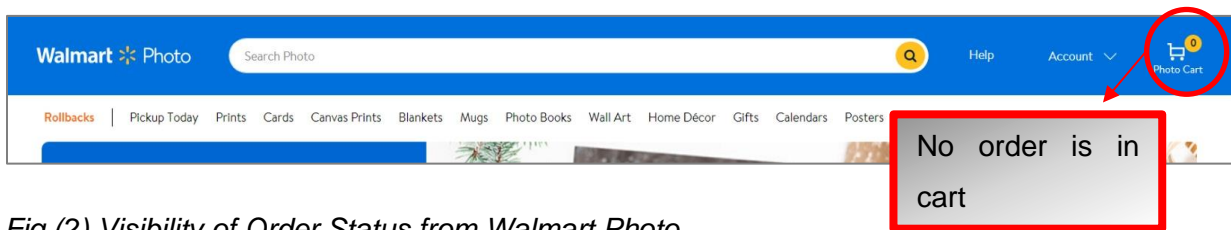


Fig (2) Visibility of Order Status from Walmart Photo

When no order is prepared in shopping cart, the shopping cart icon will show zero status in navigation bar.

2.3.2 Usability of Help & Support

Bayphoto.com ([Professional Photo Printing Products & Services | Bay Photo Lab](#))

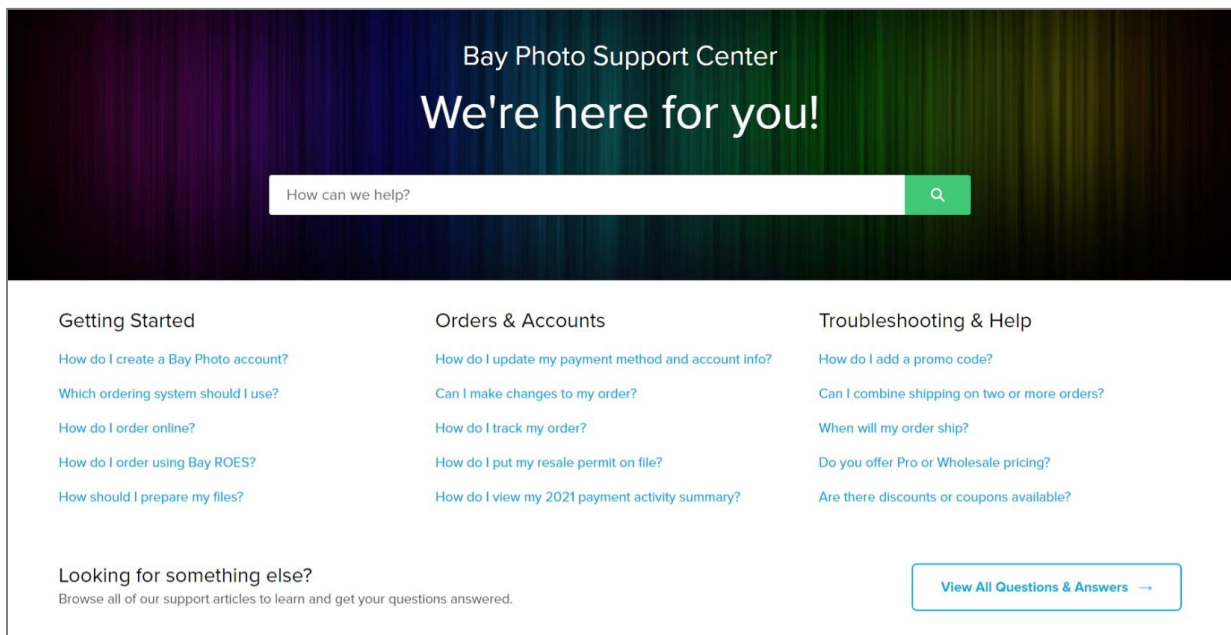


Fig (3) Usability of Help & Support of Bay Photo

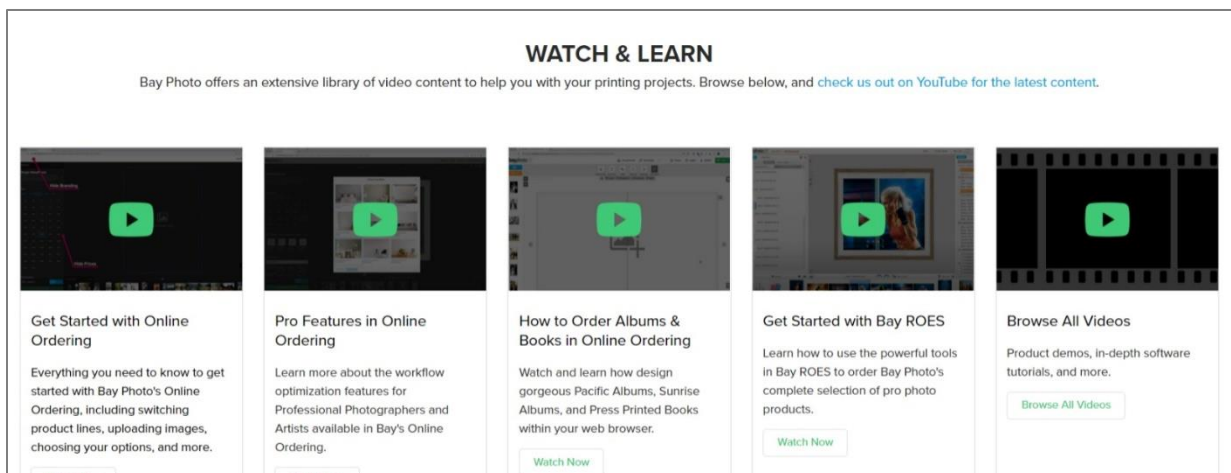


Fig (4) Usability of Help & Support of Bay Photo

In this section, customers can ask the website about their errors and problems, and popular questions are also listed. And the list of how-to videos is very convenient for users.

Walmartphoto.com ([Photo Prints](#) | [Custom Cards](#) | [Photo Gifts](#) | [Walmart Photo](#))

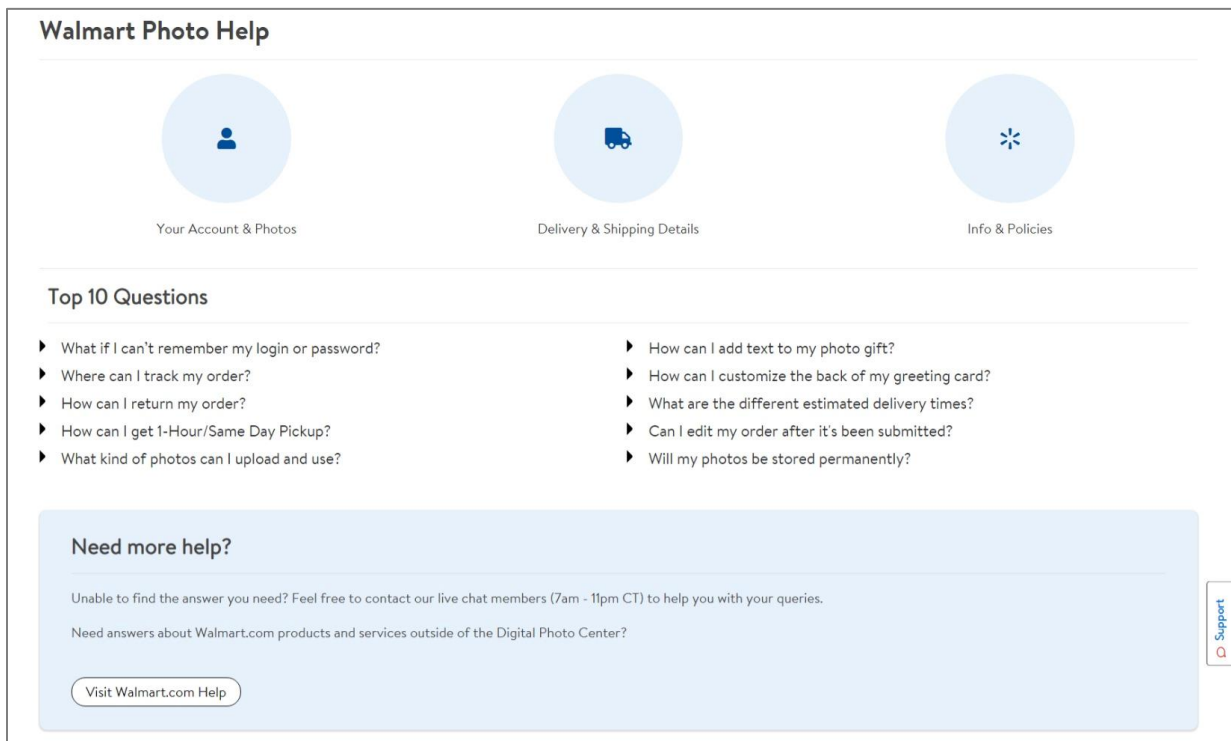


Fig (5) Usability of Help & Support of Walmart Photo

The Walmart photo website also lists the top ten questions in help and support page. Users can ask another questions and support at popover support button where also show chat available hours. Account, delivery and photo are divided into sections for customers who need help or got errors at somewhere, so it is very easy for user to search answers for them.

2.3.3 Visibility of Search box

Bayphoto.com

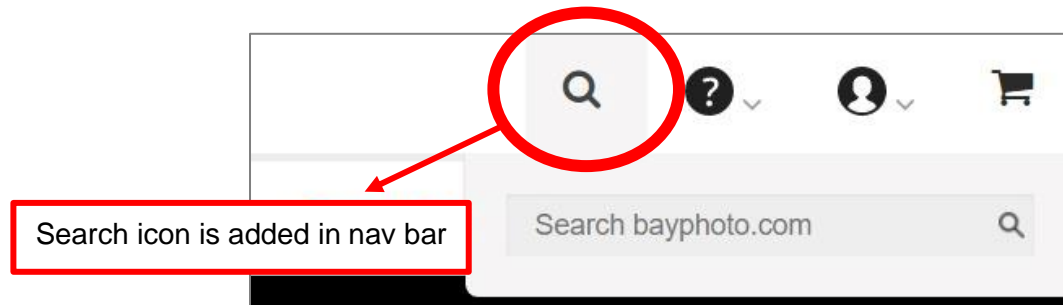


Fig (6) Visibility of Search box from Bay Photo

In Bay Photo website, a search icon is added to the navigation bar for users to search for items. When user click on this search icon, the search box will be drop down, the user can type the name item or some characters they want.

Walmartphoto.com



Fig (7) Visibility of Search box from Walmart Photo

In Walmart Photo website, a wide space is taken for the search bar where users can search items, they want by typing some characters, so that the users can clearly see this when they enter the website. As the text "Search Photo" is described as a placeholder in the search box, the user can easily understand.

1. Functional Comparison Evaluation

No	Function	Bay Photo	Walmart Photo
1	Customer Registration	1 2 <u>3</u> 4 5	1 2 <u>3</u> 4 5
2	Calendar Option Form	1 2 3 <u>4</u> 5	1 2 3 4 <u>5</u>
3	Shopping Cart	1 2 3 <u>4</u> 5	1 2 3 <u>4</u> 5

Functional Comparison Summary

When Bay Photo and Walmart Photo have been compared for Functional Comparison, some different were found.

Once the customer registration form of two websites were compared, firstly Bay Photo Website added more field names than needed but Walmart Photo is opposite of Bay Photo because the field name from Walmart Photo is less than need and it only contains Name, Email and Password.

Calendar Option Form of these two websites are almost similar at requestion information. Bay Photo can be better than now when they input the functions such as example image of calendar that the customers choose size like Walmart.

In Shopping cart, these two have useful functions. The difference is the type of paper can be chosen in Walmart but an item can order per a time in Bay Photo. In Walmart Photo, user can order many items per a time but where the type of paper cannot be chosen.

2. Non-Functional Comparison Evaluation

No	Function	Bay Photo	Walmart Photo
1	Visibility of Order Status	1 2 3 4 <u>5</u>	1 2 3 4 <u>5</u>
2	Usability of Help & Support	1 2 3 4 <u>5</u>	1 2 3 <u>4</u> 5
3	Visibility of Search Box	1 2 3 <u>4</u> 5	1 2 3 4 <u>5</u>

Non-Functional Comparison Summary

The user interfaces of both websites are good because they were developed by professional developers. But there are still weak points somewhere.

As for Visibility of Order Status, both are good. The reason is that clear letters and background colors are used to describe the number of orders.

In the Usability of Help & Support section, both popular questions are listed, so it is convenient for the user. But if how- to tutorial videos were described in Walmart photo, it will be more perfect.

Bay photo's search box is clearer and more obvious than Walmart Photo's. it is different that Bay Photo show its search box with a wide space clearly but Walmart only show an icon.

Chapter-3

Feasibility Study

3. Chapter-3 Feasibility Study

3.1 Technical Feasibility

3.1.1 Methodologies

A. Definition

DSDM (Agile)

DSDM is Dynamic System Development Method which is a one of the methods of agile and use as a framework to an agile project. This method can be used in both IT and non-IT fields. DSDM was developed in 1994 and is more focused on governance and product delivery management than RAD (rapid Application Development). DSDM focus on quality, cost, time, collaborative working, iterative and incremental. DSDM Atern first fix cost and time for right quality and features. For fixing cost and time, MoSCoW prioritization technique is used. MoSCoW is short term of MUST HAVE, SOULD HAVE, COULD HAVE and WON'T HAVE, and this is also help to common understanding and priorities. There are also eight principles of DSDM Atern which provide to approach the success project.

Waterfall

Waterfall is a linear approach method which is used widely in project like Software Development. There is a reason why this is a linear approach because tasks go step by step after one has done. If one task is not complete, it will not go continuously. That is why, it is used when the object of project is clearly known from the beginning to the end process for development. If the project will develop with this method, it will go step by step with these five phrases that are Requirements, Design, Implementation, Verification and Maintenance.
(Leeron Hoory, Cassie Bottorff, Mar 25, 2022)

B. Strength and Weakness of each Methodology

Strength of DSDM

- Products are delivered on time with interactive development.
- Being able to predict the risks with prioritization.
- Getting a good quality product by doing collaboration with stakeholders continuously and clearly

Weakness of DSDM

- When there is more interactive development, the project can't move forward
- Early stages are difficult to plan

- Unavailability to get expected product due to time box aka limited time

Strength of Waterfall

- having a definite outline from the early stage to the end
- Suitable for small projects
- Being able to know in advance the time and cost due to checking the included features first

Weakness of Waterfall

- It is not suit for large projects
- Cannot update the program during project
- Ignoring the user's views during development results in less user-friendliness

C. Comparison of Methodology

Criteria	DSDM	Waterfall
Development Method	DSDM does not provide linear process.	Waterfall approach to complete the project straightly.
Define Feature	In early stage, cost and time are analyze to define feature.	The features that must be include in project is analyzed in advance before calculation of cost and time.
Flexibility	Interactive development is provided.	Interactive development is not provided. All outline is defined in early stage.

D. Recommendation for Methodology

When a recommendation is needed for methodology, DSDM is good to choose. There are reasons for choosing the DSDM methodology as the feature will be added over time and it is not clear to know the outline of the project ends. And then, the incrementally form is provided with firm foundation in which MoSCoW prioritization is included. The user involvement is also provided during development aka iteratively development. If the Waterfall methodology is wanted to use in this project, the scope and the other overview of the project must be known clearly in early stage.

3.1.2 Programming Languages

A. Definition

PHP

The original name of PHP is Personal Home Page but later, it stands for PHP: Hypertext Preprocessor. It is an open source language. PHP is server-side scripting language. It is more suitable for developing a dynamic website with HTML and JavaScript but it is also used in desktop application development. For developing with PHP, web server must install first. Databases like SQL, Oracle and others can be handled with PHP too. (Anon., n.d.)

Python

Python, is an open source programming language and it can be used for general purposes, is interpreted, object-oriented, high-level programming language for dynamic development. It is also used in data structures as high-level one by combining with dynamic typing and binding. (Anon., n.d.)

B. Strength and Weakness of each Programming Languages

Strength of PHP

- It is easy to connect with database.
- Can output the result clearly as HTML.
- As it is open-source, it is free to get without paying.

Weakness of PHP

- It is not suitable for giant applications.
- As it is open-source, it is not secure.
- Poor at handling errors. (Prasanna, August 20, 2021)

Strength of Python

- It is easy to learn as a new learner.
- It is very flexible language.
- It is easy to fix errors because the syntax of the language is simple.

Weakness of Python

- It is not suit for mobile application development and memory-intensive programs
- It is time consuming due to low processing rate.
- Due to its basic programming, users face difficulty in working with other programming languages.

C. Comparison of Programming Languages

Criteria	PHP	Python
Database Connectivity	Can connect and accept more than 20 different databases.	Integration of database is not good as it is in PHP.
Types of Language	One of the popular languages for web development	Python is used in various field but it is not good to choose for using anywhere.
Syntax	The syntax of PHP is uncommon and slightly different to read than python.	It is very simple, easy and readable for all human.
Speed	The last version of PHP is 3x faster than python.	Python is slower than PHP.

D. Recommendation for Programming Language

For this project, the using of PHP is good to choose as this project is not long term one being able to predict the scope of King Studio project. PHP code can be test, without buying any hosting, with XAMPP app. And then, the database integration is not as good as PHP and PHP is 3x faster than python in developing website.

3.1.3 Databases

A. Definition

MYSQL

MySQL is open-source database software. It is popular database in managing relational database. It is used in PHP scripts to be dynamic the website. It is scalable, fast and easy to use one than Microsoft SQL Server and Oracle Database. This software was written in C and C++ programming languages. Either many small or big companies can use this. It supports many OS (Operating System) such as Linux, MacOS, Window and etc. it can be said that the security is strong because password is encrypted. (Anon., n.d.)

Oracle

Oracle is self-driving; securing oneself; A relational database system designed to eliminate manual database management that is prone to self-correction and error. Not too much different from MySQL. It is available on any platform OS (Operating System). (Anon., n.d.)

B. Strength and Weakness of each Databases

Strength of MySQL

- Free to use
- Good choice for e-commerce project
- Available on many OS
- Good security as password is encrypted

Weakness of MySQL

- It not good to handle very large databases
- Before 5.0 versions do no provide stored procedure, COMMIT and ROLE.
- SQL check constraints are not supported. (Anon., n.d.)

Strength of Oracle

- Can handle large amount of data quickly
- It is programmable, portable, scalable and distribute.
- Recovery manager tool is contained as a built-in
- Available on many OS

Weakness of Oracle

- It is need to paid for some version
- It is complex to manage
- It is not good choice for medium-small size companies (Singh, August 14, 2019)

C. Comparison of Databases

Criteria	MySQL	Oracle
Cost	It is free to use but licensed under the GNU.	It has not only licensed version for commercial but it has also express version for student.
Scalability	It is good to use in both small and big business.	It is only good to use in large development.
Data Partitioning	Does not support.	Support
Null Value	Support	Does not support.

D. Recommendation for Programming Language

In choosing databases for this King Studio Project, MySQL is recommended to use. It is free to use and the security is good. After that, it is not complex like Oracle. The scope of this project database is small-media size, so, MySQL database is good to choose for this project. And then, it supports many OSES.

3.2 DSDM Feasibility (DSDM eight principles)

DSDM is a framework of agile and it has eight principles which promote sustainable development. The eight principles of DSDM are showing in following with justifications.

1. Focus on the business need
2. Deliver on time
3. Collaborate
4. Never Compromises quality
5. Build incrementally firm form foundations
6. Develop iteratively
7. Communicate continuously and clearly
8. Demonstrate Control

3.2.1 Focus on The Business Need

The meaning of that title is as follows. If a project is done, it should be started with a team that understands the contents of the business to be done and understands DSDM. Once having a good understanding of DSDM, MoSCoW will be understood, which is mainly involved in it, and distinguish priorities. Then, every decision made by the team will reach the main goal of the project, and the products will be delivered in good quality and on time according to the customer's wishes.

3.2.2 Deliver on Time

DSDM is a Framework of Agile and works within a limited time frame. The main goal is to always deliver a usable product to the customer after a timebox. As a result of doing so, the product undergoes iterative improvements, leading to a good quality product.

DSDM emphasizes immediate delivery and proposes that even projects with no deadlines can still benefit from one. Because having deadlines is the best way to control changing needs. To follow this principle, DSDM teams should focus on priorities. They should manage their time by setting deadlines and using MoSCoW and timeboxing techniques.

3.2.3 Collaborate

Collaboration and team spirit are very important for DSDM teams. It is not based on less interactive between departments. Each team should work together rather than working separately. As such, business teams and technical teams can work together to become more efficient and effective. The DSDM team fulfills that mandate by including technical staff and other stakeholders. Every decision of the individual is taken into account and the individual feels empowered. The DSDM team conducts workshops, engages stakeholders, and collaborates.

3.2.4 Never Compromises Quality

Product modifications should not always be made to improve quality. Therefore, the quality should be determined before the project start. The final product must be neither more

nor less than the decided quality. The DSDM team should only conduct continuous testing and iteration for product quality during 'exploring' and 'engineering' interactive development phrases.

3.2.5 Build incrementally firm form foundations

In DSDM, the Foundation is agreed upon at the beginning of the project. So DSDM is different from other Agile methods in that. There is no need for detail in that foundation. After determining the risks that will occur first, agree on the solution to solve those problems. Once the foundation is established, delivery can be made incrementally thereafter.

3.2.6 Develop Iteratively

DSDM proposes that nothing is perfect the first time. Incremental delivery allows for changes and encourages collaboration between stakeholders. Such encouragement leads to user satisfaction. This means that the DSDM team is forcing users to use the non-final version and asking for feedback. With this feedback, the team make testing and demonstration until the best final decision agree. That is why, it make sure that iteratively development and lead to good quality products.

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

Legal Issues

(a) XXXXXXXX

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(b) XXXXXXXX

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(c) XXXXXXXX

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Ethical Issues

(d) XXXXXXXX

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(e) XXXXXXXX

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(f) XXXXXXXX

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Social Issues

(g) XXXXXXX

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(h) XXXXXXX

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XX
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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(i) XXXXXXX

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Sample: BCS Code of Conduct

- The public interest
 - E.g. legitimate rights of third parties
- Duty to relevant authority
 - E.g. conflicts of interest
- Duty to the profession
 - E.g. encourage, support, act with integrity
- Professional competence and integrity – e.g.
 - am I familiar with the technology involved, or have I worked with similar technology before?
 - have I successfully completed similar assignments or roles in the past?
 - can I demonstrate adequate knowledge of the specific business application and requirements successfully to undertake the work?



(j) XXXXXXXX

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(k) XXXXXXXX

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(l) XXXXXXXX

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XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Chapter-4

Foundations

4.1 Target User

The target...

Type of User	Age	Computer skill / IT Literacy	Language skill (Especially English skill)
Guests	15-70	good	good
Admin	20-60	good	good

4.2 Functional Requirement

1 Manage Purchase Process (Timebox 1)

1.1 Manage Admin (HL) (M)

- Update Admin (ML)
 - Change Password (LL)

1.2 Manage Packages (HL) (S)

- Register package
 - Product Name already exists check (LL)
- Update package
 - Change Quantity and Name (LL)
- Delete package
- Search package

1.3 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

1.4 Manage Staff (HL) (W)

- Register Staff (ML)
 - Email already exists check (LL)
 - Check text Fields Null (LL)
- Update Staff
- Delete Staff
- Search Staff
- Add Attendance
-

2. Manage Order & Delivery Process (Timebox 2)

2.1 Manage Customer (HL)(M)

- Register Customer (ML)
 - Limit Special Characters (LL)
 - Email already exists check (LL)
- Update Customer
 - Change name, email, phone, address and password (LL)
- Delete Customer
- Search Customer
- Customer Login
 - Check similarity of Email and Password (LL)

2.2 Manage Order (HL)(C)

- Add Order
 - Available date check (LL)
 - Set unavailable date (LL)
 - File Upload (LL)
- Delete Order (ML)
- Search Order (ML)

2.3 Manage Feedback (W)

- Write Feedback (ML)
- View Feedback (ML)

4.3 MOSCOW Prioritization

Must Have

Must have	Justification
Manage Admin	Admin will control all packages editing, staff data and orders.
Manage Customer	Customers are important for the process to work completely.

Should Have

Should have	Justification
Manage Packages	It should be SHOULD because the packages will be managed by admin and ordered by customers.

Could Have

Could have	Justification
Manage Purchase Manage Orders	Purchase section is relay on having packages and customers. Orders will work only if customers order packages.

Will Not Have

Will not have	Justification
Manage Staff Manage Feedback	Staff are not need to manage the data of system. Without Feedback section, the system can run regularly.

4.4 Non-Functional Requirements (4)

- 1. Usability**
- 2. Security**
- 3. Performance**
- 4. Interface**
- 5. Operational**
- 6. Resource**
- 7. Portability**
- 8. Reliability**
- 9. Maintainability**
- 10. Safety**
- 11. 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) <u>Design</u> <ul style="list-style-type: none"> Use Case Diagram for Purchase Process <u>Coding</u> <ul style="list-style-type: none"> Manage Staff (CRUD) Manage Supplier (CRUD) <u>Testing</u> <ul style="list-style-type: none"> 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

XX
XX
XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (__,__)

Risk Management

XX
XX
XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (__,__)

4.6.1 Identification of Possible Risks (10-12)

Technical Risk

- Virus Detect

XX
XX
XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

- Device Lost/ Destroyed

XX
XX
XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

- Error Detect and Project Late

XX
XX
XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

- Security Risk
- Outsourcing Risk
- FR NFR Requirements Risk

Req Changes

XX
 XX
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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

XX
XX
XX
XX.

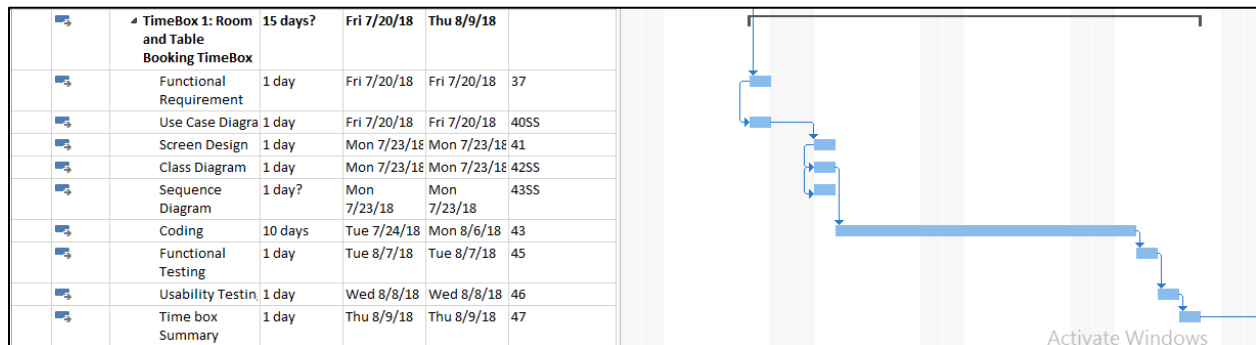
The Whole System Use Case & Class

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)

1.1 Manage Staff (HL)

- Register Staff (ML)
 - Email already exist check (LL)
 - Password Length check (LL)
- Update Staff
- Delete Staff
- Search Staff
- Staff Login

1.2 Manage Supplier

- Register Supplier
- Update Supplier
- Delete Supplier
- Search Supplier

1.3 Manage Brand

- Register Brand
- Update Brand
- Delete Brand
- Search Brand

1.4 Manage Category

- Register Category
- Update Category
- Delete Category
- Search Category

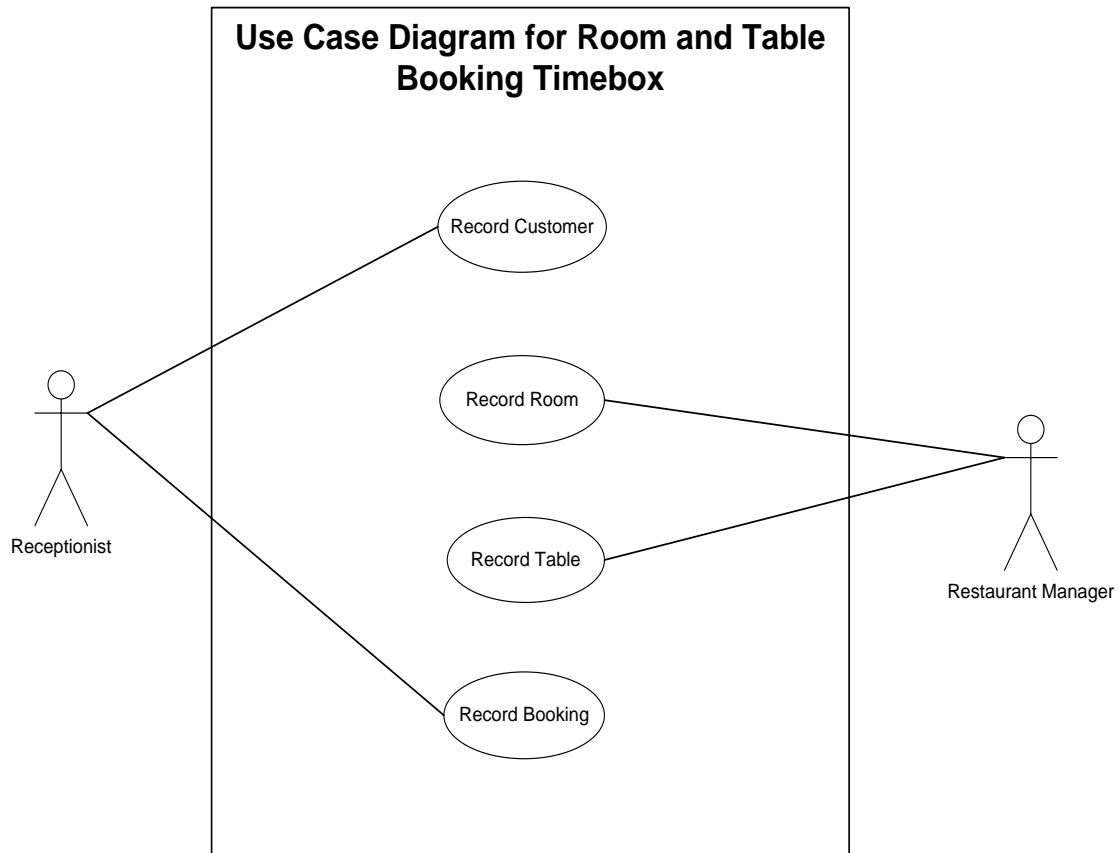
1.5 Manage Product

- Register Product
- Update Product
- Delete Product
- Search Product

1.6 Manage Purchase

- Record Purchase
- Confirm Purchase
- Search & Report Purchase

5.1.2 Use Case Diagram



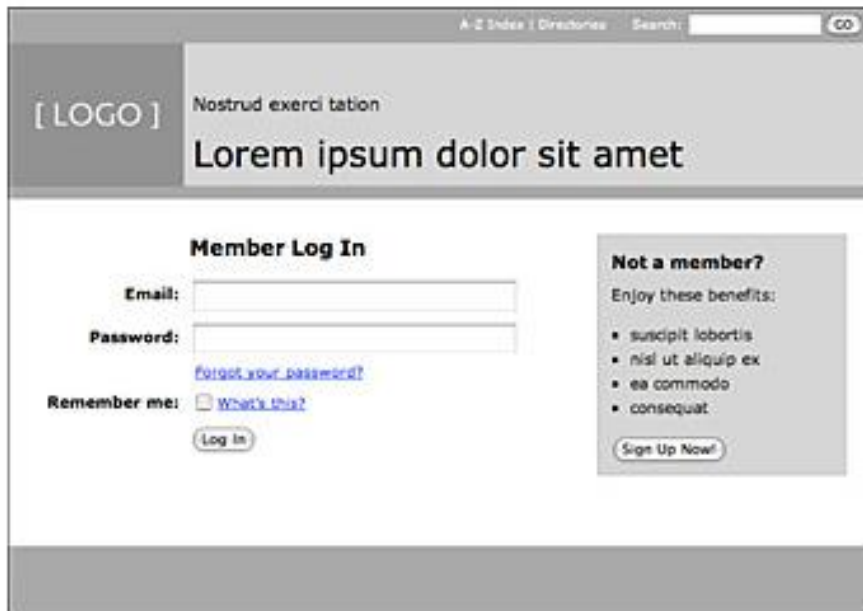
Use Case Description

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



A low-level prototype of a customer registration form. The page has a grey header with a search bar and a navigation menu. Below the header is a grey banner with a placeholder logo [LOGO] and the text "Nostrud exerci tation" and "Lorem ipsum dolor sit amet". The main content area is white. On the left, there is a "Member Log In" section with fields for "Email:" and "Password:", a "Remember me:" checkbox, and a "Log In" button. A link "forgot your password?" is also present. On the right, there is a "Not a member?" section with the text "Enjoy these benefits:" followed by a bulleted list: "• suscipit lobortis", "• nisi ut aliquip ex", "• ea commodo", and "• consequat". A "Sign Up Now!" button is at the bottom of this section.

Fig (1) Low Level Prototype for Customer Registration



A high-level prototype of a customer registration form. The page has a blue header with a search bar and a navigation menu. Below the header is a blue banner with a fish logo and the text "Nostrud exerci tation" and "Lorem ipsum dolor sit amet". The main content area is white. On the left, there is a "Member Log In" section with fields for "Email:" and "Password:", a "Remember me:" checkbox, and a "Log In" button. A link "forgot your password?" is also present. On the right, there is a "Not a member?" section with the text "Enjoy these benefits:" followed by a bulleted list: "• suscipit lobortis", "• nisi ut aliquip ex", "• ea commodo", and "• consequat". A "Sign Up Now!" button is at the bottom of this section.

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

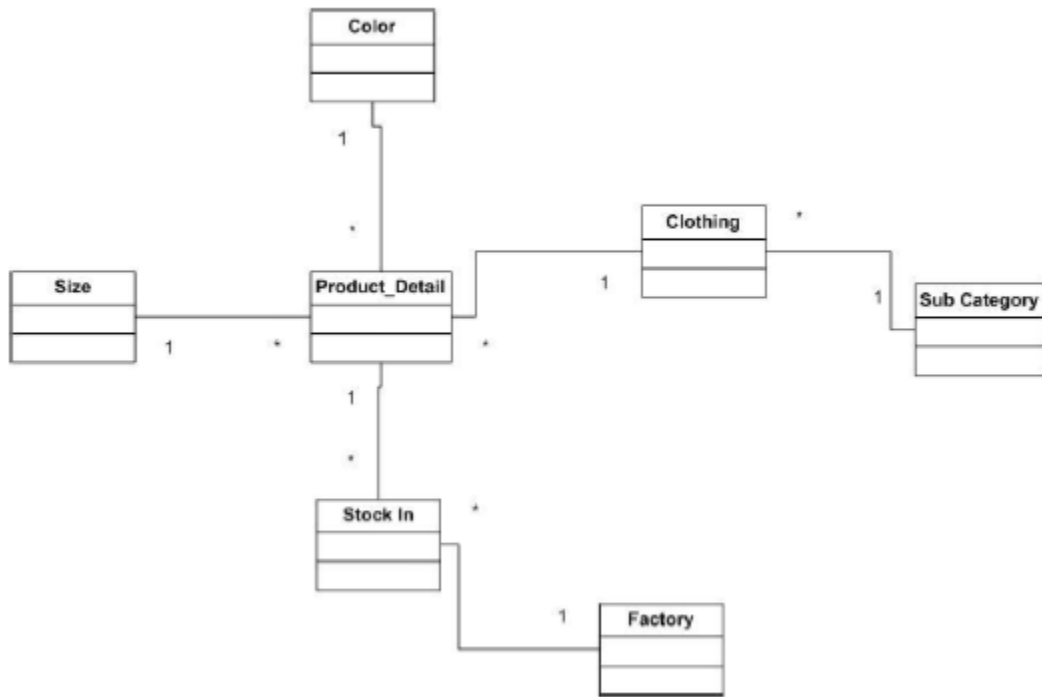
Customer Name	<input type="text" value="Enter Customer Name"/>
Phone No	<input type="text" value="Enter Phone No"/>
Address	<input type="text" value="Enter Address"/>
Email	<input type="text" value="Enter Email"/>
Member Type	<input type="text" value="Choose Member Type ▼"/>
<input type="button" value="Register"/> <input type="button" value="Cancel"/>	

After

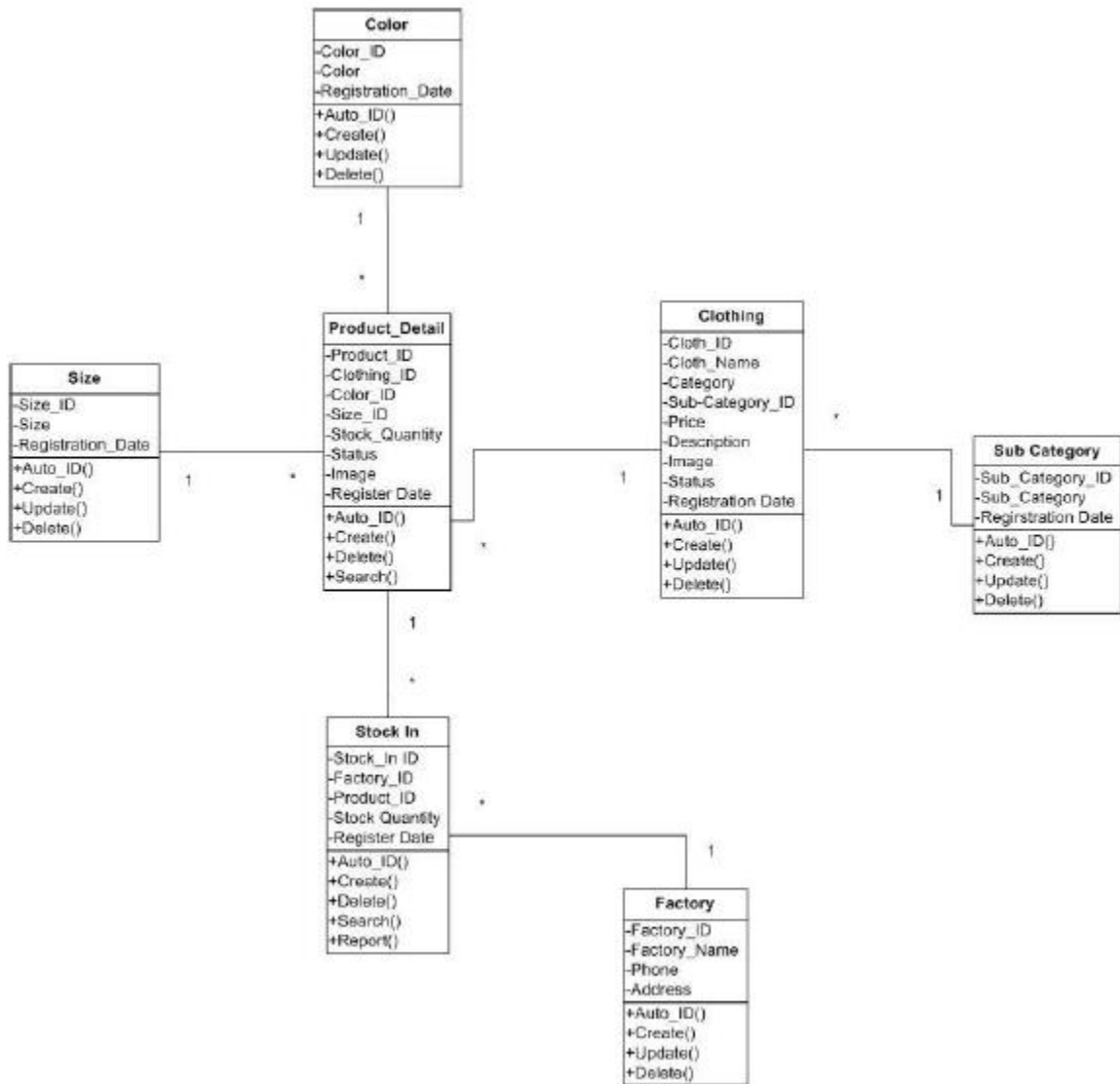
Customer Name	<input type="text" value="Enter Customer Name"/>
Phone No	<input type="text" value="Enter Phone No"/>
Address	<input type="text" value="Enter Address"/>
Email	<input type="text" value="Enter Email"/>
Member Type	<input type="text" value="Choose Member Type ▼"/>
<input type="button" value="Register"/> <input type="button" value="Cancel"/>	

5.1.5 Class Diagram

Initial Class Diagram



Detailed Class Diagram

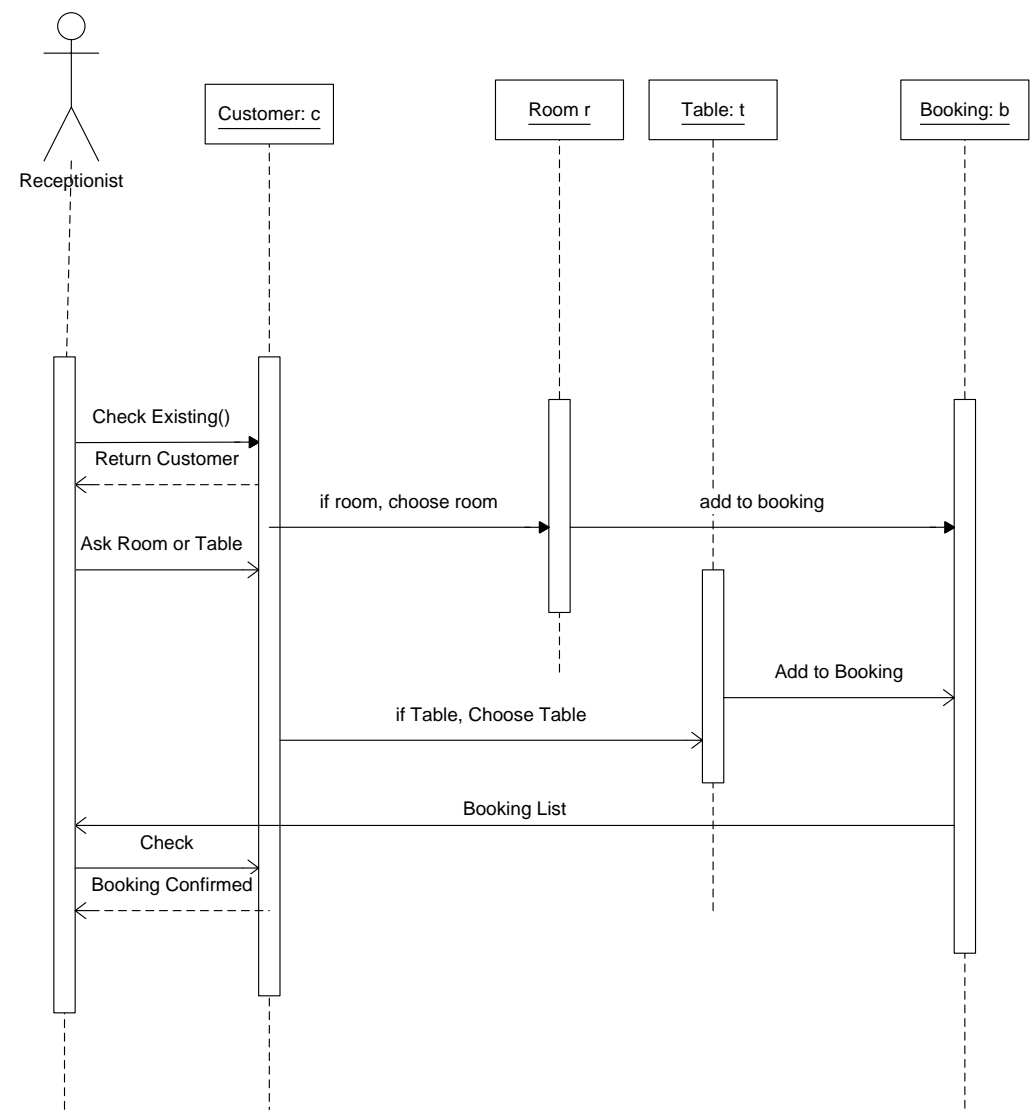


Detail Class Definitions

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

XX
XX
XX
XX
XX
XX
XX

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

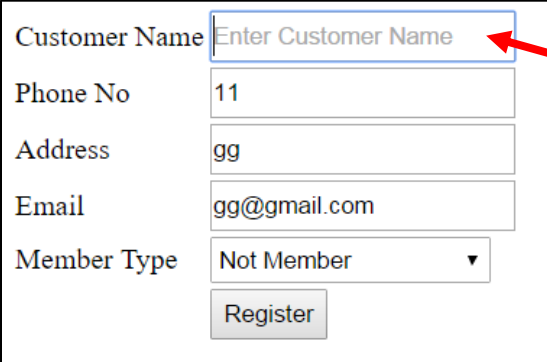
Module 2: Supplier Entry

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



Customer Name

Phone No

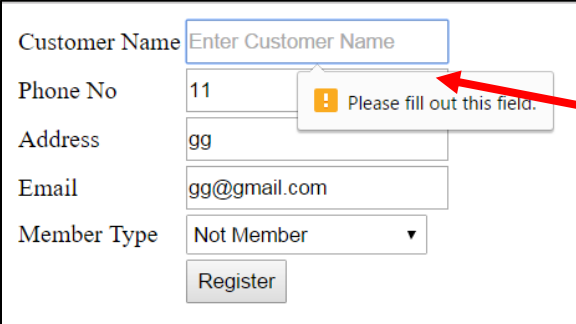
Address

Email

Member Type

Fig.1.1

After Testing



Customer Name

Phone No

Address

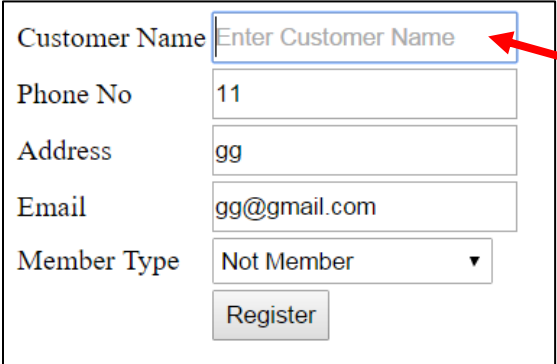
Email

Member Type

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



Customer Name

Phone No

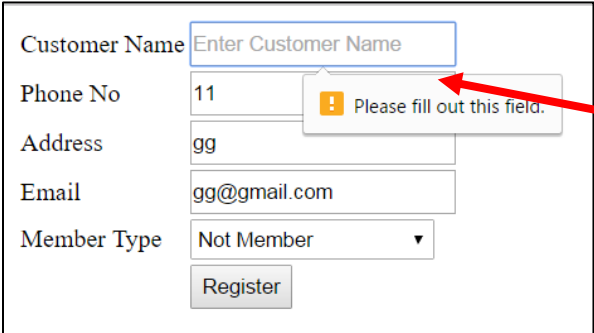
Address

Email

Member Type

Fig.1.1

After Testing



Customer Name

Phone No

Address

Email

Member Type

! Please fill out this field.

Fig.1.2

For remaining test cases, please see Appendix.

5.1.8 Usability Testing

Visibility of System Status

The screenshot shows a web application interface. On the left is a dark green sidebar with four menu items: 'New Booking', 'New Customer', 'View Bookings', and 'Logout'. The main content area is titled 'Customer Entry' and contains a form with the following fields: 'Customer Name' (text input), 'Phone' (text input), 'Address' (text input with a blue border and a small icon), 'Email' (text input), and 'Member Type' (dropdown menu). At the bottom of the form are two buttons: 'Register' (blue) and 'Cancel' (green). A blue callout box with a pointer to the 'Customer Name' field contains the text: 'Can see text box with different color'.

Explain

XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Match between System and Real World

Aesthetic and Minimalist Design

Consistency and standard

Error Prevention

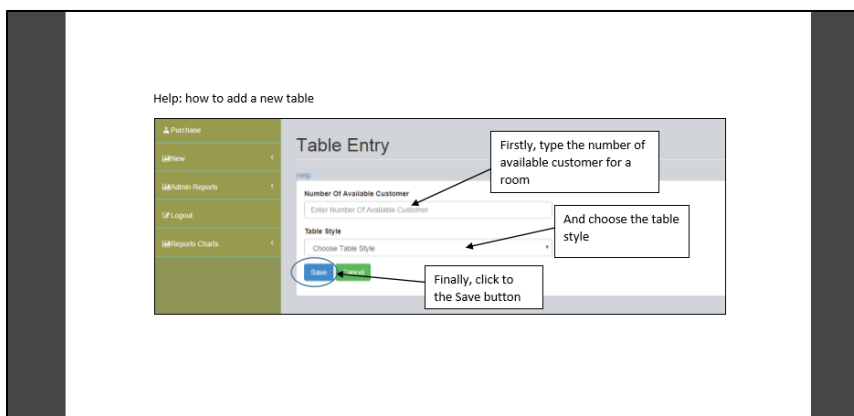
User Control and Freedom

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



5.1.8 Time box Summary

Work Done

Problems (Issues)

Solutions

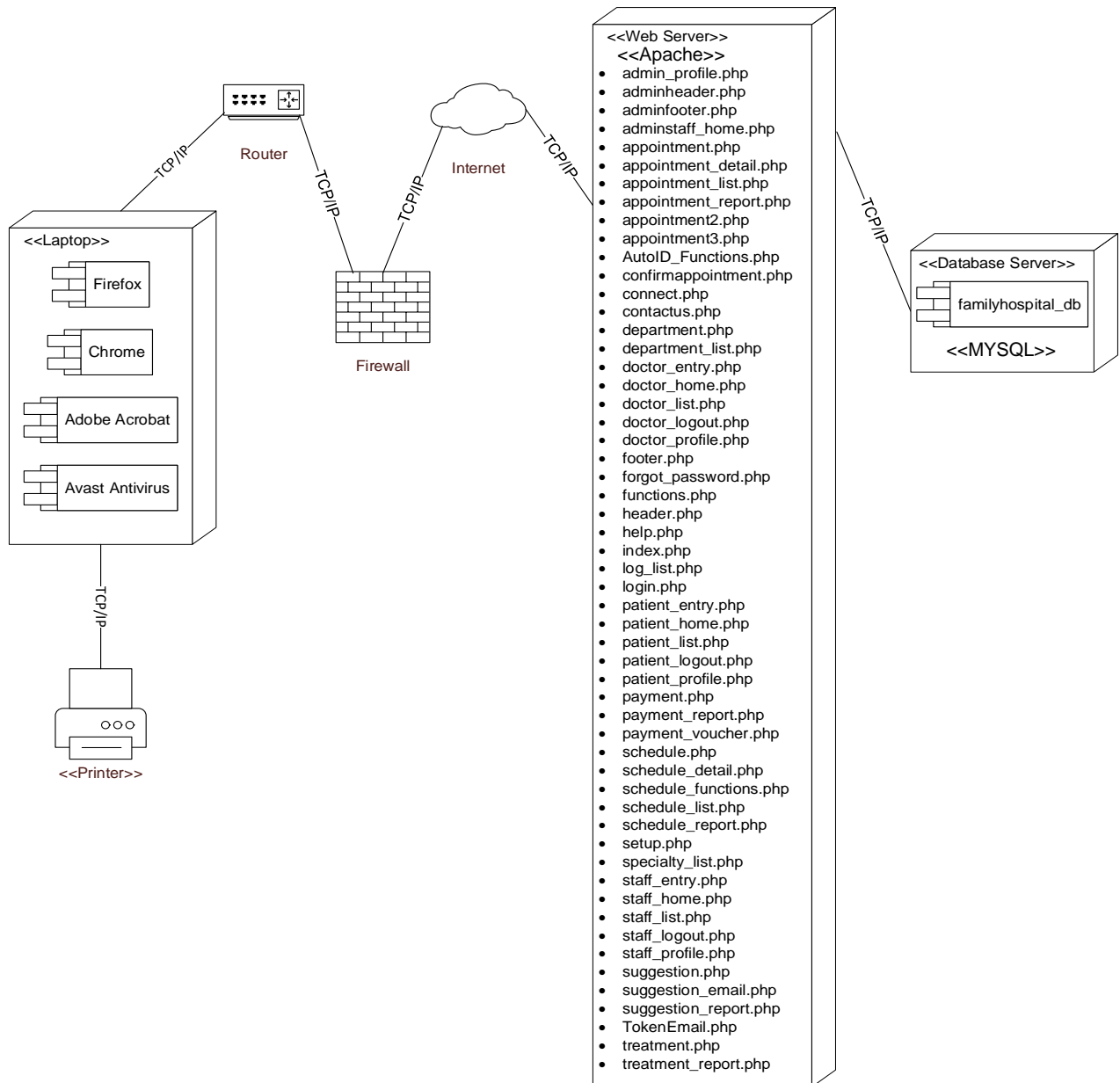
Remaining Time-boxes

CHAPTER – 6

Deployment

6.1 Deployment

6.1.1 Deployment Diagram



Explanation for diagram

XX
XX
XX
XX

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	<ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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

The screenshot shows the 'BookingEntry' form with the following fields and callouts:

- Booking date:** 02/17/2019. Callout: "Firstly, set the booking date".
- Dine In Date:** mm/dd/yyyy. Callout: "And set the booking time".
- Dine In Time:** --:-- --. Callout: "And set the booking time".
- Type of Booking:** Radio buttons for Room and Table. Callout: "After choosing the booking type click to the".
- Find:** A blue button next to the radio buttons. Callout: "And Choose the booking".

The form also includes a sidebar with navigation links: New Booking, New Customer, View Bookings, and Logout.

CHAPTER – 7

CONCLUSION

&

EVALUATION

7.1 Evaluation against Aim & Objectives

Aim

Objective 1

Analysis –

Objective 2

Design –

Objective 3

Coding –

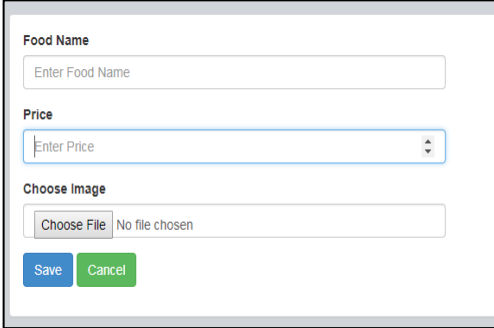
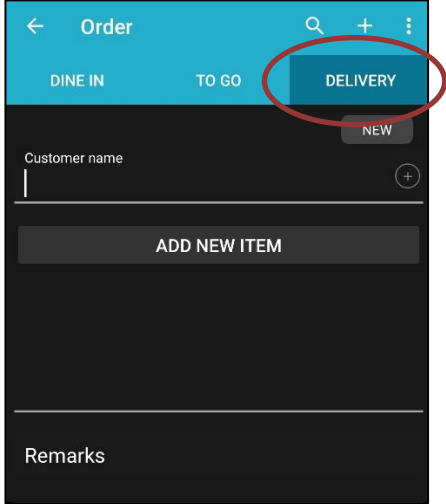
Objective 4

Testing –

Objective 5

Training –

7.2 Evaluation Against Similar System

No	My System	Incy POS
1	<p>Visibility of System Status</p>  <p>The system status the selected text box in the specific color so the status of the system is said to be visible.</p>	<p>Visibility of System Status</p>  <p>The system status the selected tab in the specific style so the status of the system is said to be visible.</p>

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()	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Shopping Cart Functions	RemoveProduct()	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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

Customer Name

Enter Customer Name

Phone No

11

Address

gg

Email

gg@gmail.com

Member Type

Not Member

Register




Fig.1.1

After Testing

Customer Name

Enter Customer Name

Phone No

11

Address

gg

Email

gg@gmail.com

Member Type

Not Member

Register

Please fill out this field.




Fig.1.2

Section F: Interview Scripts

When interview with manager

References

References List