



Daffodil
International
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Title: Good Food - An Online Office Meal Service

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This Report submitted in partial fulfillment of the requirement for the degree of
Bachelor of Computer Science and Engineering.

Department of Computer Science and Engineering
DAFFODIL INTERNATIONAL UNIVERSITY
Spring – 2021

APPROVAL

This **Project** titled “**Good Food - An Online Office Meal Service**”, submitted by **Md. Aktaruzzaman, ID: 161-15-7244 & Md. Azmal Hossain, ID: 143-15-4661** to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of BSc in Computer Science and Engineering and approved as to its style and contents.

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DECLARATION

We hereby declare that, this project report submitted to the Daffodil International University, is a record of an original work done by us under the guidance of **Mr. Ahmed Al Marouf**, Senior Lecturer at the department of Computer Science and Engineering, Daffodil International University. We also declare that the project reported in this document has not been submitted to any other University or Institute for the award of any degree or diploma.

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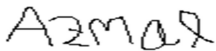


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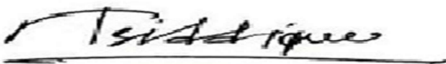


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First, we would like to thanks from heart to our **parents** to give the opportunity for Studying in Computer Science and Engineering. They made the way easier to achieve the goals and dreams, without them it will not be possible.

We would express our deepest thanks to my honorable supervisor and teacher **Mr. Ahmed Al Marouf, Senior Lecturer, Department of Computer Science and Engineering**, Daffodil International University. He is the coolest person had ever seen and he had lot of experience in the software engineering field. His valuable advice, supervision and lot of experience made it easier to complete the project.

Gratefulness from our heart to Honorable **Dr. Touhid Bhuiyan, Head, Department of Computer Science and Engineering**, for his kind aid to finish my project. Also, thanks from our heart to the honorable faculty member and staff of Software Engineering department of Daffodil International University.

Our contribution to this project did not make it successful without help of our course mate. They always encouraged us to develop this project and help us to discover the project goals and problem, also help us find out the critical problem solutions.

Finally, we would like to express my grasp to the readers, reviewers of this document who will send us criticisms for further improvement.

ABSTRACT

This project is “Good Food - An Online Office Meal Service”. The purpose of our project is to develop an online application where the Office can order food for their staff. This system Serve combo type of meal and food good for more staffs. This will be a different type Customer access system.

Every software development follows some rules and method; we are also following some methods to develop this project. Our whole project work will follow the agile methodology. Which is best software development process to develop a software. We choose it because our whole project needs to implement some part then test it and agile methodology will help us to reduce the project risk.

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CHAPTER 1

1. INTRODUCTION

1.1. Introduction

This is web-based system everyone can use this system from anywhere. There are two type of Customer. One is Admin another is Customer/customer. Admin can control the hole system. Like admin can post food/meal items, manage food/meal items, manage Customer control, manage order information and change orders activity.

On the other hand, Customers/Customers can create their account and visit the food/meal and order him/herself. This system is for Office Meal service. So, office person can order more food/meal for their staffs. On customer demand day by day, project will be adding more feature in future.

1.2. Motivation

Day by day our life becomes easier to easier and we save our valuable time. That's why we find out the difficulties and make the task easier. Online Office Meal System help to serve meal at office. So that office person or staff can relax and save their time. This system will overcome all the problems and do something new and valuable.

1.3. Objectives

This is web-based system everyone can use this system from any time anywhere around the world. Now-a-days good food/meal is very important. Specially in our city or office life. So it's easy and helpful for our daily office life to get good food from Online daily for the employees.

1.4. Expected Outcomes

To serve the good food for all office employee, so that they can feel better at his/her workplace. [3].

1.5. Project Management and Finance

This system has two (2) type of Customer. One is Admin and another is Office person/customer. Admin can manage the full system and customer can manage his/her own profile.

The Customer will be-

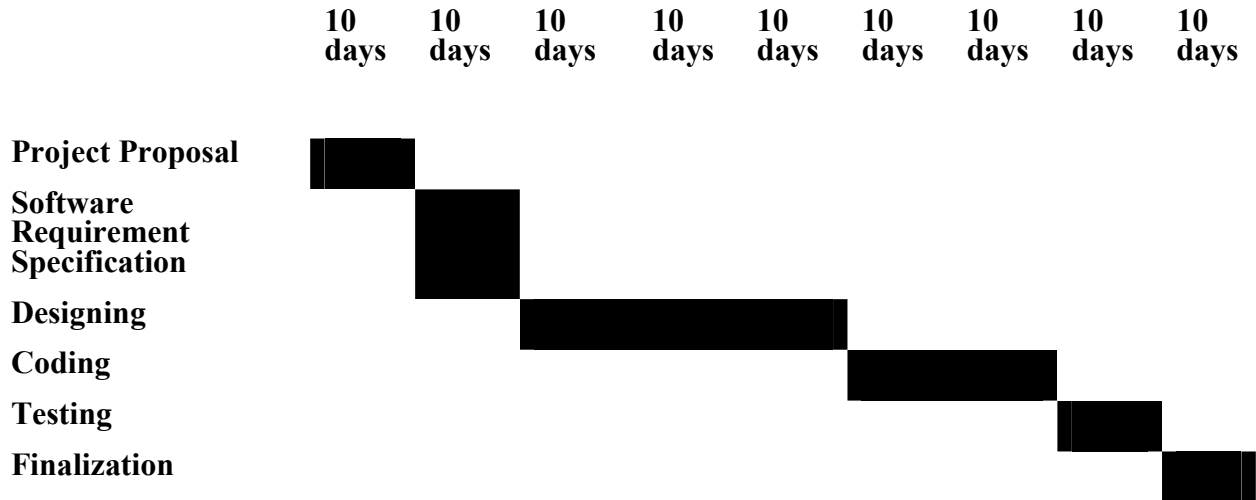
- Customer/Customer
- Admin

Lists of the operation the system will provide-

- Ensure that only Customer can access to order food/meal.
- Monitor the order status. Order from anytime, anywhere.

It's Academic project. But if it's become a commercial project then, it's need a good finance.

1.6. Report layout



CHAPTER 2

2. BACKGROUND

2.1. Preliminaries

This is web-based system everyone can use this system from anywhere. There are two type of Customer. One is Admin another is Customer/customer. Admin can control the hole system. Like admin can post food/meal items, manage food/meal items, manage Customer control, manage order information and change orders activity.

2.2. Related Works

Premier Catering BD

Dash Catering

2.3. Comparative Analysis

It's very easy to other then two project. And it's also manage online order for bulk orders.

2.4. Scope of the Problem

It's now offline project. Because of domain and hosting issue. And there is budget issue. Because if I start it commercial then it's need marketing and it's need men power.

2.5 Challenges

1. Manage delivery system
2. Manage Operation System
3. Marketing
4. Security

CHAPTER 3

3. REQUIREMENT SPECIFICATION

3.1. Business Process Modeling

This is web-based system everyone can use this system from any time anywhere around the world. Now-a-days good food/meal is very important. Specially in our city or office life. So it's easy and helpful for our daily office life to get good food from Online daily for the employees.

This system has two (2) type of Customer. One is Admin and another is Office person/customer. Admin can manage the full system and customer can manage his/her own profile.

The Customer will be-

- Customer/Customer
- Admin

Lists of the operation the system will provide-

- Ensure that only Customer can access to order food/meal.
- Monitor the order status. Order from anytime, anywhere.

3.2. Requirement Collections and Analysis

Performance Requirements

1. Speed and Latency Requirements

- Data would be insert in MySQL database within one second.
- Query would response on time and bring the query result within one second.
- Customer interface design depends on Customer machine and its approximate time would be ten seconds.
- If there are any validation error, the error would show within one millisecond.

2. Precisions or Accuracy Requirements

- After every successful login Customer would show the accurate data from the database.
- Orders and reports would accurate to the specific Customers.
- Only Admin would show the customers' orders details.
- All the Orders should store accurate and valid data to the database.
- Only authentic Customer would view authentic data.

3. Capacity Requirements

- Total Multiple Customer would login parallel at a time.
- There is no limit for the Customers, 2^{255} Customers could register.

Dependability Requirements

1. Reliability Requirements

- The Customer registration should register with the valid data and database will be updated with given data.
- Customer should login to system after input the valid email and password
- Previous Order should visible to customer when customer login to her/his account.
- Order should be managing by Admin profile.
- Unregister customer should not able to submit order.
- Admin should check the all orders, product and Customers information.

2. Availability Requirements

- This web application should run on a web browser (Preferable to chrome and Firefox).
- This system is a web application and it will available 24hours a day and 7days in a week.

Maintainability and supportability Requirements

1. Maintenance Requirements

- Fixed when the sever is overloaded or hackers attack.
- Fixed bugs when the system will be corrupted or crash
- Modify system applications when its need to change on different environment.
- Recover Customer data, if the data deleted from the Customer profile.
- Help center if any problems occur for transactions.

2. Supportability Requirements

- Customer manual will be given for Customers with full documentations.

Security Requirements

1. Access Requirements

- Registered Customer will be able to login the system.
- Admin account will be default accounts which will usable for the troubleshoot the problem and check Customer activity.
- Only registered Customer can access the system.

Usability and Human-Interactions Requirements

1. Ease of Use Requirements

- Customer interface of the application is Customer friendly.
- System maintenance interface should not complex.
- Customer interface should easy to use.
- The system will give select multiple product at a single order.

2. Understandability and Politeness Requirements

- Admin accounts should be understandable to the Admin.
- Customer accounts should will be anyone who can browse internet.

3. Accessibility Requirements

- This web application and it will be accessible from any device with internet connection.
- Every Customer should access their account after perform the login operation.

Look and Feel Requirements

1. Style Requirements

The Good Food - An Online Office Meal Service is not a regular food delivery service. It's different, it's especially for the company and office. So office or company can order their bulk quantity of food/meal.

Legal Requirements

1. Standards Requirements

- Customer need register with their academic email id and provide all correct information of their profile.
- Admin should not need any programming skills but need to know the management of information system.

3.3. Use Case Modeling and Description

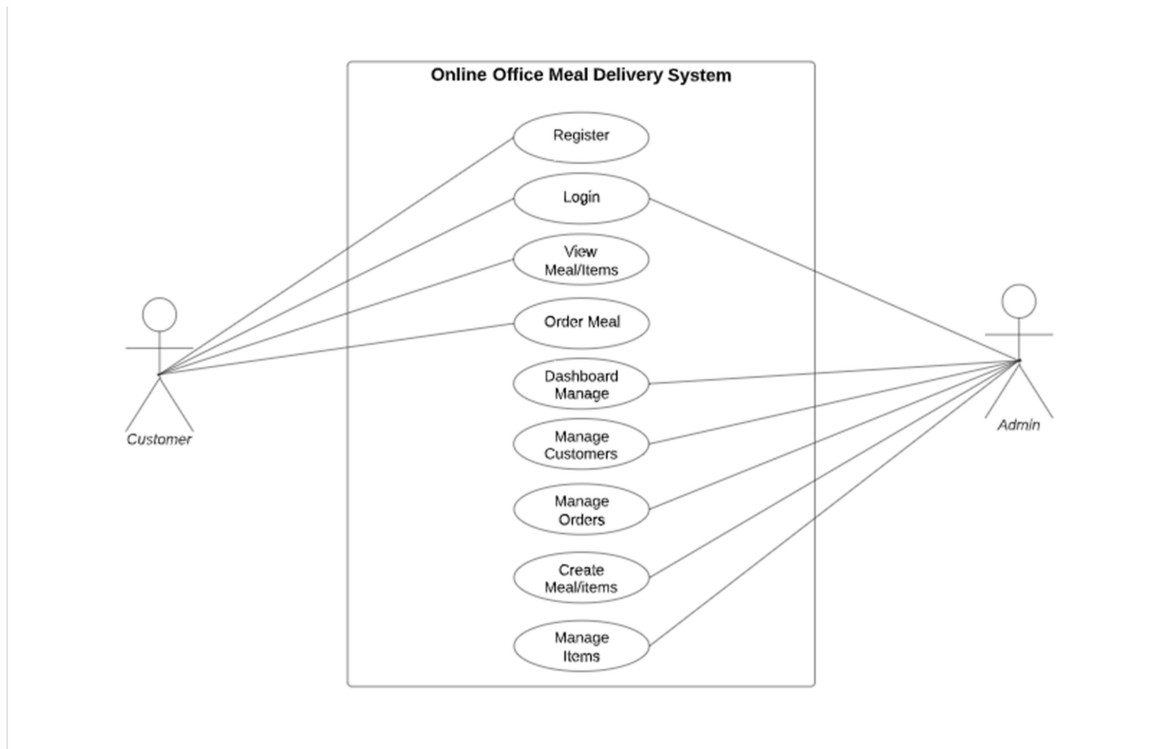


Figure 3.1: Use Case Diagram (Good Food - An Online Office Meal Service) [2]

Table 3.1: Customer Registration.

Use Case Name	Registration	
Scenario	Customer registration to the system.	
Brief Description	Customer should register with the valid email id and fill up the form with valid information.	
Actor	Customer	
Precondition	Must be valid email address.	
Post Condition	Register as Customer need to be confirm.	
Follow of events	Customer	System
	<ul style="list-style-type: none"> Both Customers must be from the organization. Must select the account type Customer. 	<ul style="list-style-type: none"> Confirm valid email address. Confirm Unique email address. Ensure Customer.
Exception Condition	<ul style="list-style-type: none"> If Customer doesn't give valid email, it will deny registrations. Customer should provide valid information of his profile. 	

Table 3.2: Admin and Customer Login

Use Case Name	Login	
Scenario	Admin, Customer login to the system	
Brief Description	Admin, Customer should login with the valid email id and password.	
Actor	Customer, Admin	
Precondition	Must be valid email and valid password for login.	
Post Condition	After successfully login to the system every Customer can access their accessible data.	
Follow of events	Amin, Customer	System
	<ul style="list-style-type: none"> • Must be input valid email and password. 	<ul style="list-style-type: none"> • Confirm valid email address. • Confirm valid password. • Confirm Customer type.
Exception Condition	<ul style="list-style-type: none"> • If admin, Customer doesn't give valid email and password system will deny login. 	

Table 3.3: Customer Place Order

Use Case Name	Place Order/Order meal	
Scenario	Customer add product for place Order.	
Brief Description	Customer add product to complete their new Order.	
Actor	Customer	
Precondition	Customer need to login to the system.	
Post Condition	After successfully login Customer can place Order for delivery.	
Follow of events	Customer	System
	<ul style="list-style-type: none"> • Fill the order information with items information. • Place the Order. 	<ul style="list-style-type: none"> • Confirm Customer identity and generate Order.
Exception Condition	<ul style="list-style-type: none"> • Customer send request for the order by place order. 	

Table 3.4: Customer View Order Reports

Use Case Name	View Order/Meal	
Scenario	Customer view Order reports from his Order.	
Brief Description	Customer view Order reports from his Order profile.	
Actor	Customer	
Precondition	Customer need to login to the system and publish an Order.	
Post Condition	After successfully login Customer view Order reports from his Order.	
Follow of events	Customer	System
	<ul style="list-style-type: none"> View Order reports. 	<ul style="list-style-type: none"> Confirm Customer and Order identity to view Order reports.
Exception Condition	<ul style="list-style-type: none"> Customer can view his/her own Order reports. 	

Table 3.5: Admin Manage Orders

Use Case Name	Manage Order	
Scenario	Admin manage the orders	
Brief Description	Admin can monitor the all orders, admin can view full order details and change the delivery status and payment status.	
Actor	Admin	
Precondition	Admin need to login to the system and check his suggested Order.	
Post Condition	After successfully login if Order criteria match with admin profile then he/she manage orders.	
Follow of events	Admin	System
	<ul style="list-style-type: none"> View delivery status based orders sorting information. 	<ul style="list-style-type: none"> System will suggest the Order based on delivery status.
Exception Condition	<ul style="list-style-type: none"> Admin can change order which is suggest. 	

Table 3.6: Admin Manage Meal/Items

Use Case Name	Manage meal/items	
Scenario	Manage meal/item	
Brief Description	Admin can add items, edit update items and view details the items.	
Actor	Admin	
Precondition	Admin need to login to the system to manage items.	
Post Condition	After successfully login admin manage items.	
Follow of events	Amin	System
	<ul style="list-style-type: none"> • Add Items. • Edit Items. • Update Items. • View Items. 	<ul style="list-style-type: none"> • System will check the admin identity to view the manage items response.
Exception Condition	<ul style="list-style-type: none"> • Valid admin can manage items. 	

Table 3.7: Admin Manage Customer

Use Case Name	Manage Customer	
Scenario	Manage Customer controls.	
Brief Description	Admin can manage the Customer controls.	
Actor	Admin	
Precondition	Admin need to login to the system to manage the Customer.	
Post Condition	After successfully login admin manage the Customer.	
Follow of events	Amin	System
	<ul style="list-style-type: none"> • Manage Customer controls. • Manage Customer Controls. 	<ul style="list-style-type: none"> • System will check the admin identity to manage the Customer controls.
Exception Condition	<ul style="list-style-type: none"> • Valid admin can manage the Customer controls. 	

3.4. Logical Data Model

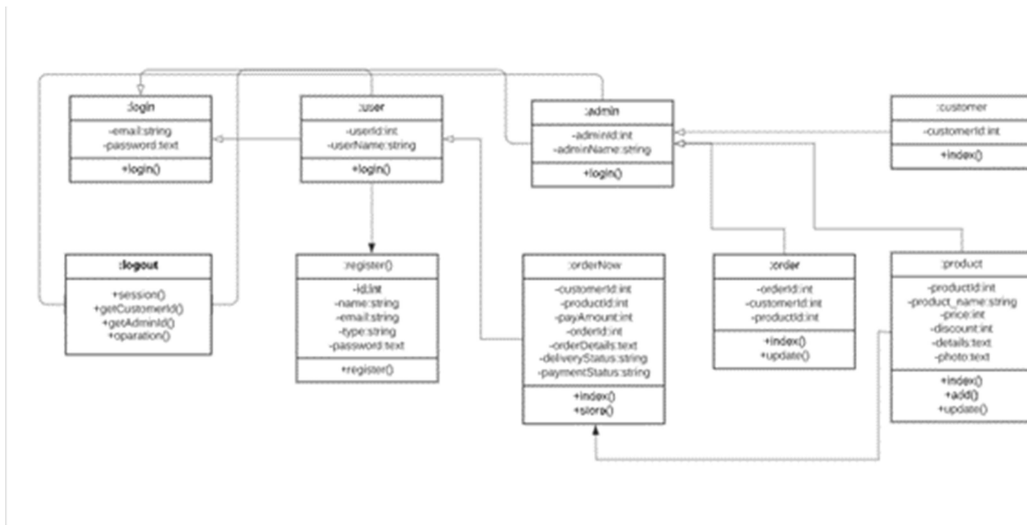


Figure 3.2: Class Diagram (Good Food - An Online Office Meal Service) [2].

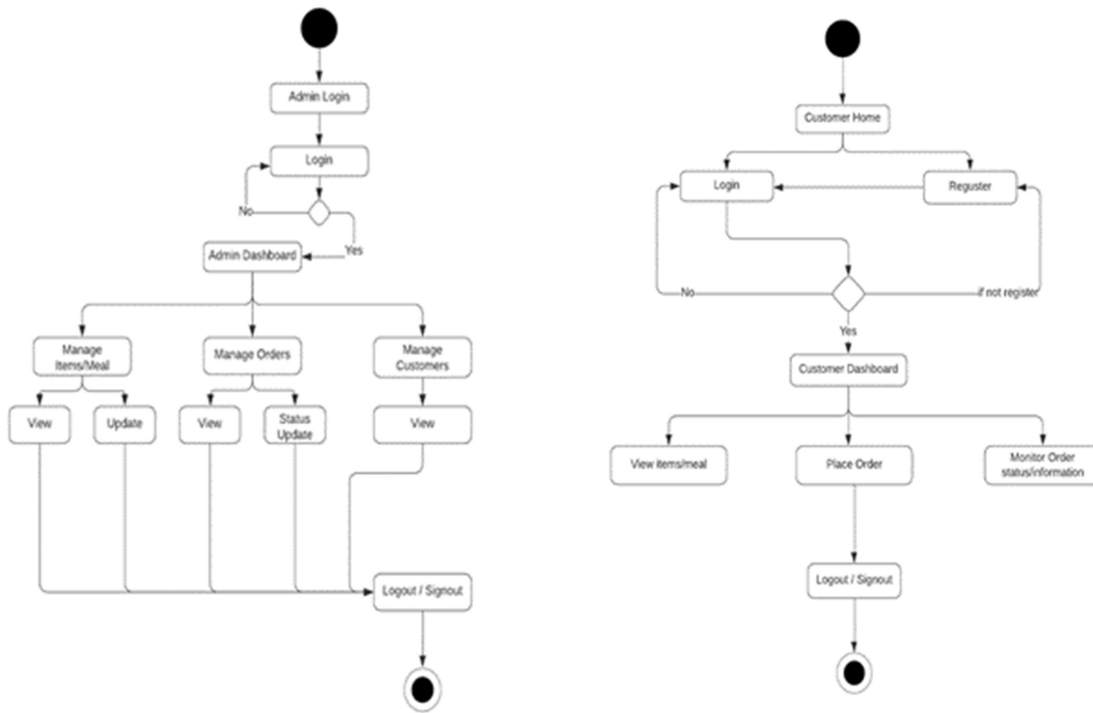
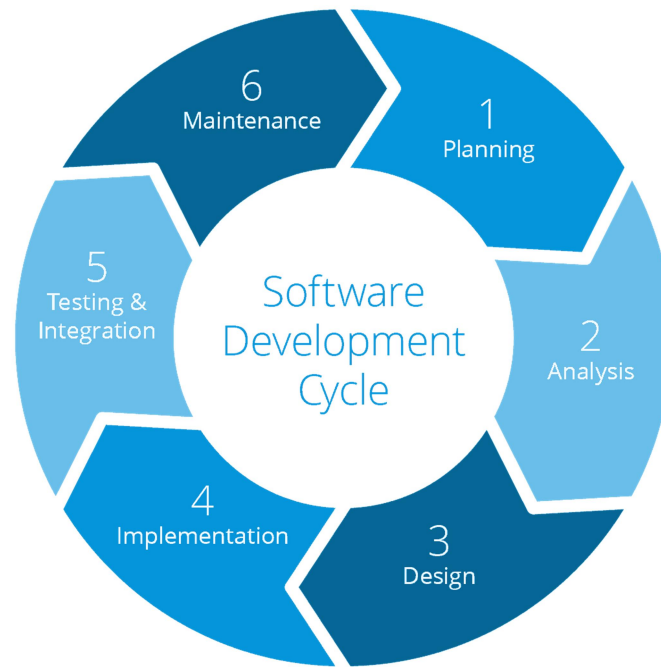


Figure 3.3: Activity Diagram (Good Food - An Online Office Meal Service) [2]

3.5. Design Requirement



Agile development model is also a type of Incremental model. Software is developed in incremental, rapid cycles. This results in small incremental releases with each release building on previous functionality. Each release is thoroughly tested to ensure software quality is maintained. Customer satisfaction by rapid, continuous delivery of useful software.

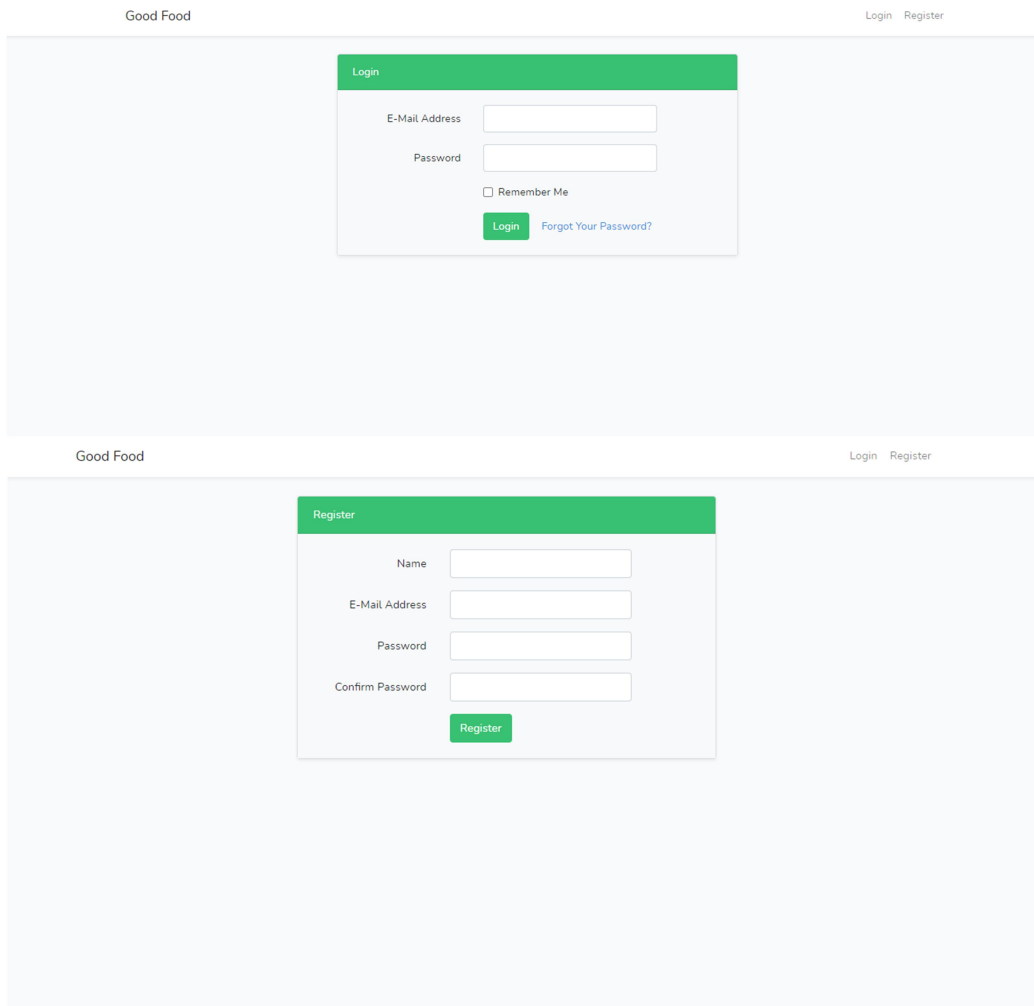
So for this type of project, choose Agile development model.

CHAPTER 4

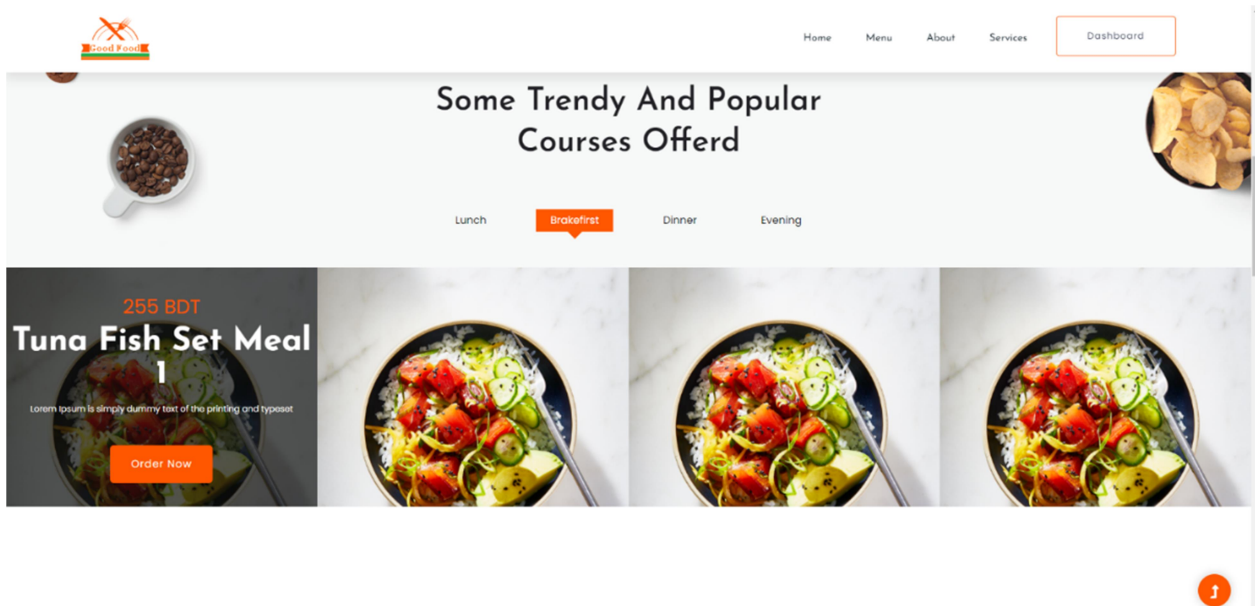
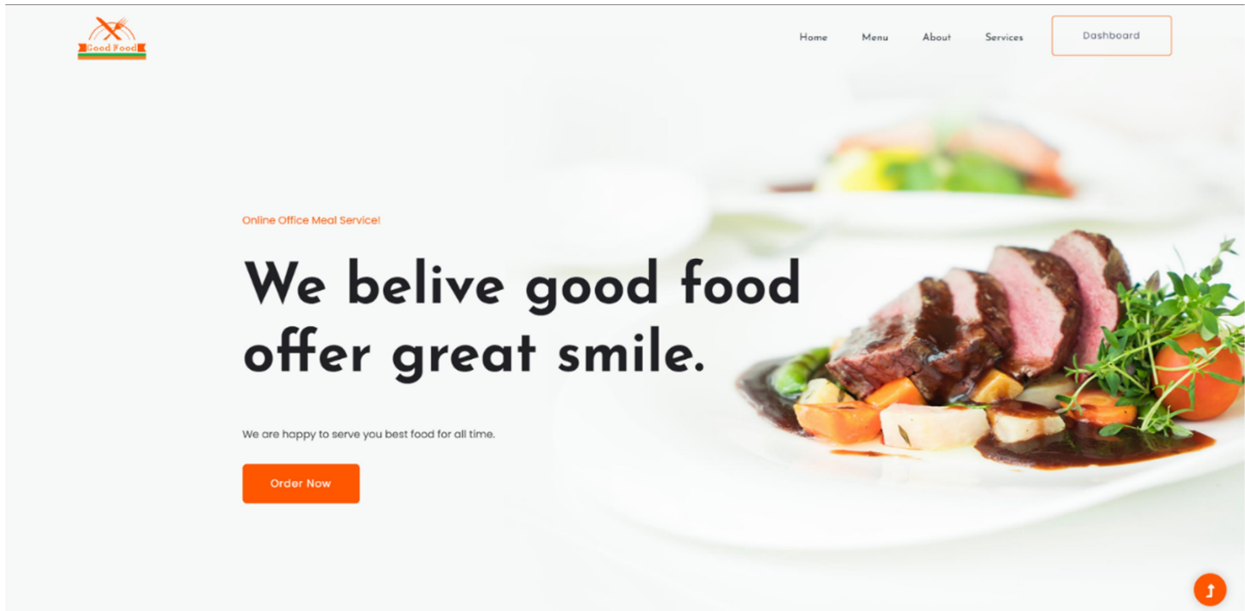
4. DESIGN SPECIFICATION

4.1. Front-end Design

Login and Registered Customer



After successfully login customer will get chance for order something.



After successfully registration and login Customer will able to see the Order list that's are matching his/her profile.

GM Good Meal

Jahidul Hasan Zahid (customer)

Dashboard Order Now

Order Meal/Food for Your Office!

Today order date: 21-04-22

Order For meal time: Select Time

Total Meal Quantity: 100

Food Name/Meal Items select

Select a State

- Khacchi Plater with Borhani(1:1) for Dinner | Price 285
- Noodles(1:2) for Evening | Price 199
- BBQ Set Meal 1(1:1) for Lunch | Price 777
- Tuna Fish Set Meal 1(1:1) for Breakfast | Price 285

Place Order

GM Good Meal

Jahidul Hasan Zahid (customer)

Dashboard Order Now

Total Order Time: 1

Total Completed Order: 0

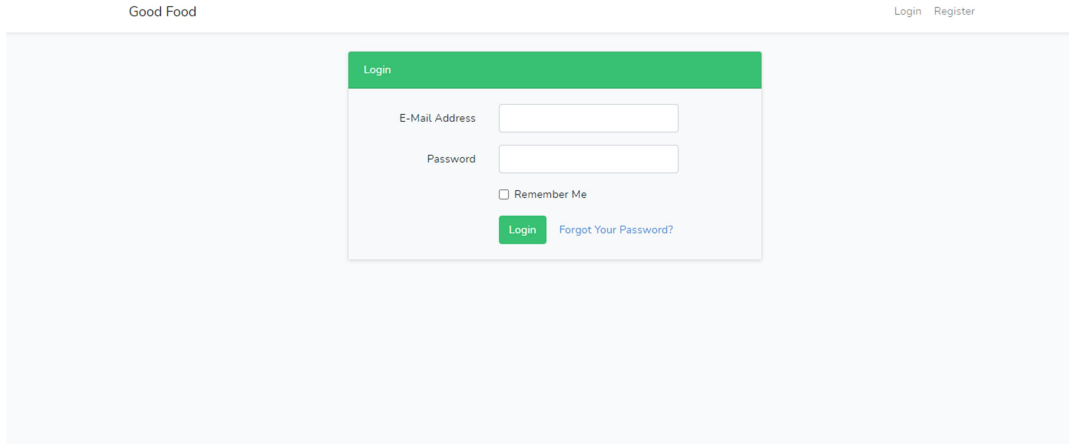
Total Pending Order: 1

Last Order Update

Order Number	Customer Name	Pay Amount	Delivery Status
6081da39716c0	Jahidul Hasan Zahid	285	Pending

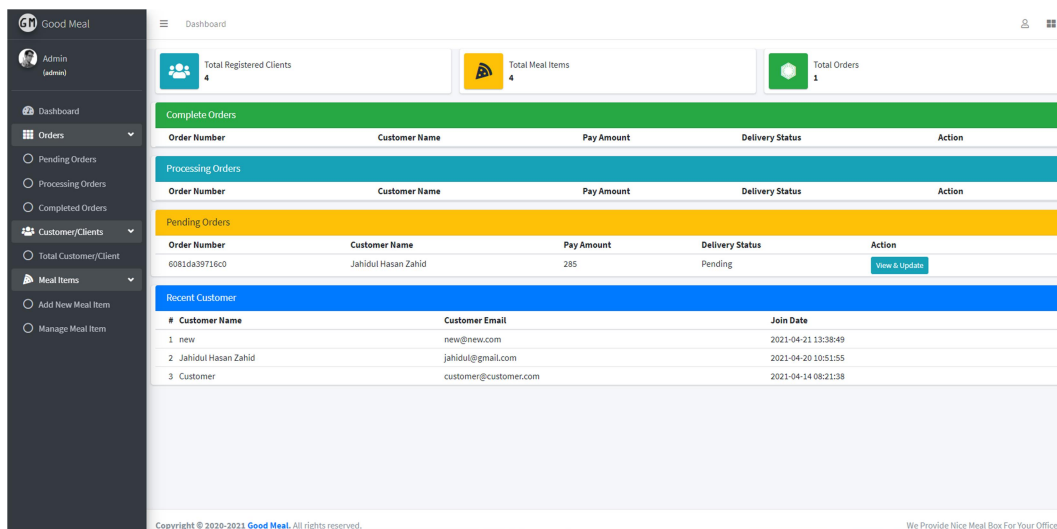
4.2. Back-end Design

Admin Login View



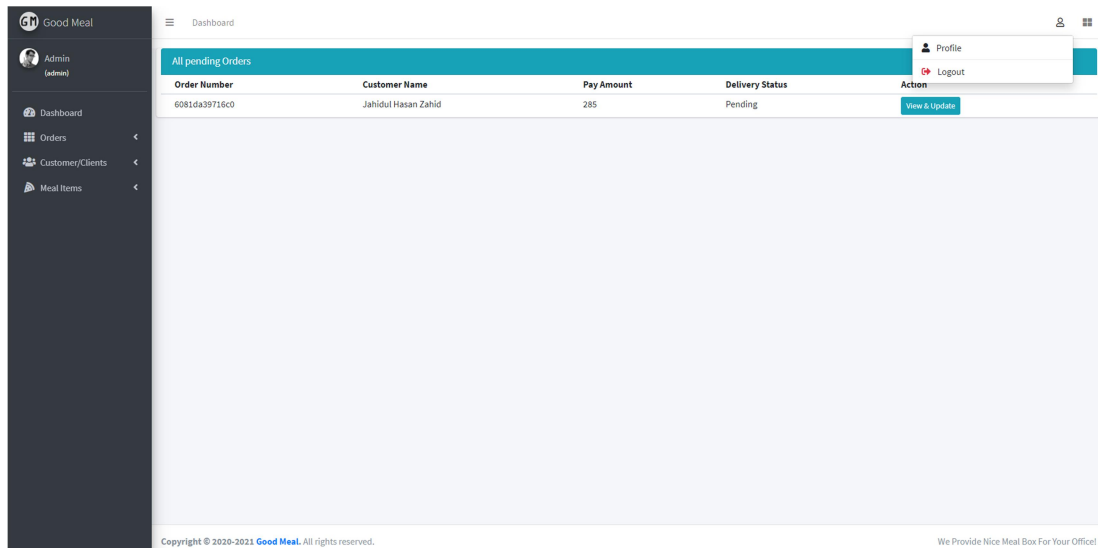
The image shows the admin login page for 'Good Food'. At the top left is the text 'Good Food' and at the top right are links for 'Login' and 'Register'. The main content is a login form with a green header 'Login'. The form contains two input fields: 'E-Mail Address' and 'Password'. Below these is a checkbox labeled 'Remember Me'. At the bottom of the form are two buttons: a green 'Login' button and a blue 'Forgot Your Password?' link.

After successfully login admin will see total orders, customers and meals count. And also Admin can show latest customer and orders based on delivery status like pending, processing and completed.

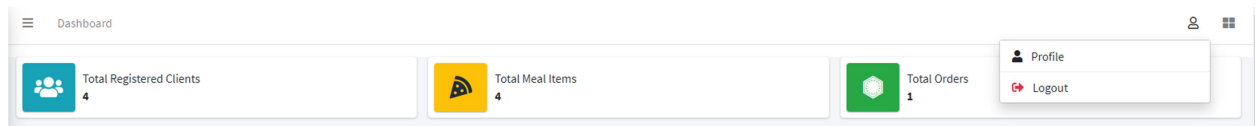


The screenshot shows the admin dashboard for 'Good Meal'. The left sidebar contains navigation options: Admin (admin), Dashboard, Orders (with sub-options: Pending Orders, Processing Orders, Completed Orders), Customer/Clients (with sub-options: Total Customer/Client), and Meal Items (with sub-options: Add New Meal Item, Manage Meal Item). The main dashboard area features three summary cards: 'Total Registered Clients' (4), 'Total Meal Items' (4), and 'Total Orders' (1). Below these are three tables: 'Complete Orders' (green header), 'Processing Orders' (teal header), and 'Pending Orders' (yellow header). The 'Pending Orders' table has one entry: Order Number 6081da39716c0, Customer Name Jahidul Hasan Zahid, Pay Amount 285, and Delivery Status Pending. At the bottom is a 'Recent Customer' table (blue header) with three entries: 1. new (new@new.com, 2021-04-21 13:38:49), 2. Jahidul Hasan Zahid (jahidul@gmail.com, 2021-04-20 10:51:55), and 3. Customer (customer@customer.com, 2021-04-14 08:21:38). The footer contains copyright information and a slogan: 'We Provide Nice Meal Box For Your Office!'.

Admin can see all the Orders list after click on the 'Orders'.



After Click on the profile icon admin can view his/her profile. View profile it's developing and Click on Logout option, which is send request for logout.



4.3. Interaction Design and User Experience

I used bootstrap for design. And I used Admin LTE3 for admin. Try to give a better UX for the customer.

4.4. Implementation Requirements

It's PHP, LARAVEL, MySQL project.

CHAPTER 5

5. IMPLEMENTATION AND TESTING

5.1. Implementation of Database

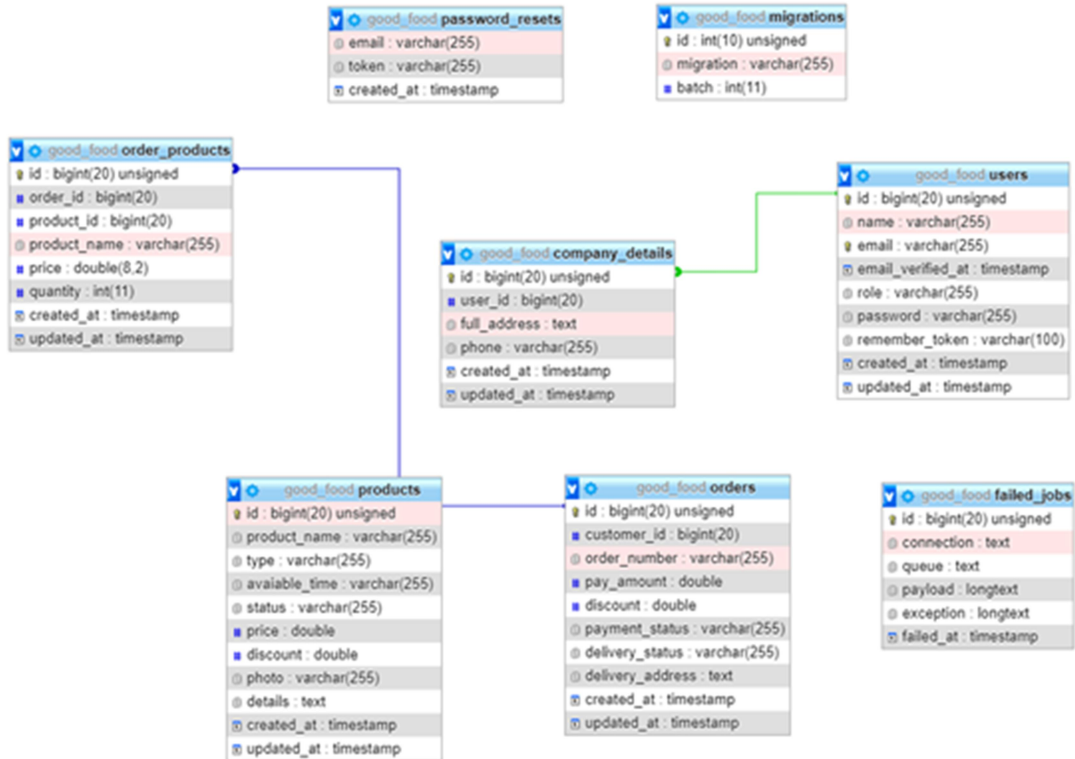


Figure 5.1: Database Schema Diagram (Good Food - An Online Office Meal Service) [1]

5.2. Implementation of Front-End-Design

Development Tools and Technology

Customer Interface Technology

- HTML5
- CSS3
- Bootstrap 4
- JavaScript
- jQuery Plugins
- VS Code

Implementation Tools & Platforms

- Object Oriented PHP
- MySQL
- XAMMP
- LARAVEL Framework
- Windows PowerShell
- VS Code
- Git

5.3. Testing Implementation

Features to be tested

- Customer Registration
- Customer and Admin Login
- Order Process
- Admin system Managing Process, like customer, products, Orders and else.

Features not to be tested

- Order Invoice

Test Approach

- The whole system will be tested manually.
- The system testing based on customer acceptancy.

Pass/Fail Criteria

- Component Pass/Fail criteria -The test will pass if the case meet the object design requirement or fail if not.
- Integration Pass/Fail criteria – The test will pass if the case meet the design architecture requirement or fail if not.

Suspension and Resumption

- Acceptance Test – The system will pass the test if every build is successful if not than try again.
- Regression Testing - The system should work properly after each change on the system.
- System Design Changes – The system should work properly after each change in the design.

Test Phase	Days	Owner
Test plan creation	7 days	Md. Aktaruzzaman
Test Specification Creation	7days	Md. Aktaruzzaman
Test Specification Team Review	10days	Md. Azmal Hossain
Component Testing	10days	Md. Azmal Hossain
Integration Testing	10days	Md. Aktaruzzaman
System Testing	20days	Md. Aktaruzzaman

Table 5.3: Testing Schedule (Good Food - An Online Office Meal Service).

5.4. Test Results and Report

Table 5.4: Test case 1.

Test Case: 01			Test Case Name: Registration	
System: Good Food - An Online Office Meal Service			Subsystem: N/A	
Designed By: Md. Aktaruzzaman & Md. Azmal Hossain			Design Date: 05-04-2021	
Executed By: Md. Aktaruzzaman & Md. Azmal Hossain			Execution Date: 05-04-2021	
Pre-Condition: Customer must be register as customer.				
Step	Action	Expected System Response	Pass /Fail	Comment
1.	When a customer does not fill-up any field and click on register.	All fields are required	Pass	All fields are required.
2.	When a Customer fill-up only name field and click on register.	Other fields are required.	Pass	Other fields are required.
3.	When a customer fill-up email field as like, <u>example.gamil.com</u>	The system will display the email field is not a valid email.	Pass	Valid email needs to register.
4.	When a customer fill-up email field as like, <u>example@@gamil.com</u>	The system should display the email field must like <u>example@diu.edu.bd</u>	Pass	Email is not valid
5.	When a Customer fill-up email field as like, <u>example@diu.edu.bd</u>	The system should accept the email as valid email address.	Pass	It is a valid email.
6.	When a Customer fill-up email field previously used email.	The system will show that email is already used.	Pass	Must be a unique email.
7.	When a customer does not fill-up password field.	The system should display password field is required.	Pass	Password is required.
8.	When a customer fill-up password filed less than 6 character.	The system should display password must be 6 character.	Pass	Password must be 6 character.
10.	When a Customer does not fill-up confirm-password field.	The system should display confirm-password field is required.	Pass	Confirm-password field is required.
11.	When password and confirm-password is not same.	The system should display password does not match.	Pass	Confirm-password does not match.
12.	When password and confirm-password is same.	The system will accept the password.	Pass	It is valid password.
13.	When a customer does not select the Customer type field.	The system should display Customer type is required.	Pass	Customer type required.
14.	When a customer select the	The system will accept the	Pass	It is a Valid

	Customer type field as Customer.	Customer.		Customer.
15.	When a customer field with all required field with valid information.	The registration process will be completed and logged in Customer and redirect to dashboard.	Pass	Registration successfully completed.

Table 5.5: Test case 2.

Test Case: 02		Test Case Name: Login		
System: Good Food - An Online Office Meal Service		Subsystem: N/A		
Designed By: Md. Aktaruzzaman & Md. Azmal Hossain		Design Date: 05-04-2021		
Executed By: Md. Aktaruzzaman & Md. Azmal Hossain		Execution Date: 05-04-2021		
Pre-Condition: Customer must be Login as Customer, Customer and Admin with valid email and password.				
Step	Action	Expected System Response	Pass /Fail	Comment
1.	When a Customer clicks the sign in button without the email and password field	Email and password are required.	Pass	Email and password required.
2.	When a Customer enter email without password.	The system display, password is required.	Pass	Password is required.
3.	When a Customer enter password without email.	The system display, email is required.	Pass	Email is required
4.	When a Customer enter valid email and wrong password.	The system display, password is not correct.	Pass	Invalid login attempts
5.	When a Customer enter valid password and wrong email.	The system display, email is not found.	Pass	Invalid login attempts
6.	When a Customer enter wrong email and wrong password.	The system display, email is not found.	Pass	Invalid login attempts
7.	When a Customer enter valid email and valid password.	The system will successfully access to the account and redirect to the dashboard.	pass	Login attempts successful.

CHAPTER 6

6. Impact on Society, Environment and Sustainability

6.1. Impact on Society

Food deliveries are now huge and have created a new social habit, offering a convenient way for customers to eat their favorite food in the comfort of their homes. Delivery companies have also opened up a new revenue stream for restaurants, providing additional ways to sell their products and reach more customers.

6.2. Impact on Environment

Food deliveries are now creating a big role of our environment to stay safe. It's help people to get food from market to home. It's clean and pollution free and safe. Online food delivery service use all kind of recycle product for packaging and others.

6.3. Ethical Aspects

Web applications should work for everyone

- Built on top of progressive enhancement
- Prioritize accessibility
- Develop inclusive forms
- Test with real users

Web applications should work everywhere

- Built responsively
- Value performance
- Leverage off-line first capabilities
- Expose permanent, human readable, deep links

Web applications should respect a user's privacy and security

- Use https everywhere
- Respect user tracking preferences
- Provide users with clear information about how their information is used
- Allow users to export their data
- Secure user data

Web developers should be considerate of their peers

- Comment and document code
- Lint and test code
- Make use of source control and continuous integration
- Consume and contribute to open source when possible
- Treat other developers with respect
- Offer, follow, and enforce a code of conduct for open source projects

6.4. Sustainability Plan

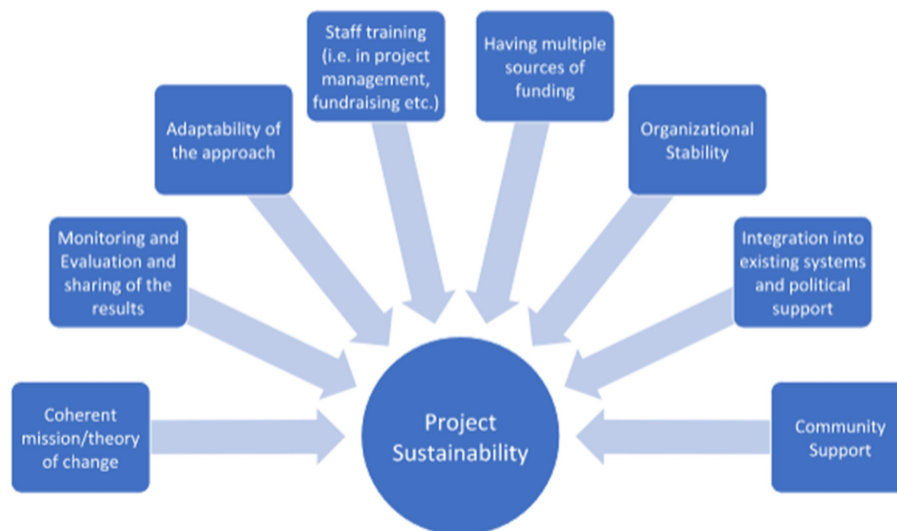


Figure 6.4: Sustainability Plan (Good Food - An Online Office Meal Service) [1]

CHAPTER 7

7. CONCLUSION AND FUTURE SCOPE

7.1. Discussion and Conclusion

Every project has some limitations; no project can be hundred percent accurate. In my project “Good Food - An Online Office Meal Service” it has some limitations.

- This project has a payment gateway, but it’s not automated to save the project cost.
- This project is developed for Daffodil International University, on one could not use it unless he/she is from Daffodil International University.

Day by day technologies are updated so the Larvae Framework is updating every day. It is quite tough to work with new technology but not so hard. New packages and new library functions are added regularly. So, I feature there are some technology can be eliminating and the project can be implemented with new technology. There are too many errors while I am developing the system.

7.2. Scope for further developments

Every project has some future scope so that in near feature the application adds some new features. This project has some feature scopes. List of all feature scope that can be add on this project.

- Customer group can be created for Meal Order.
- Credits withdraw and add credits can be automated.
- This project in a localhost server in feature it will be update in web server.
- Customer upload docx file as questions and doc file will be convert in Order.

There are many features can be added on this project this has many feature scopes that cannot be develop by one person.

CONCLUTIONS

All though I have developed the system “Good Food - An Online Office Meal Service” there are lots of limitations is there. I tried my best to overcame my limitations. This project is developed for only Daffodil International University. This project helps to save the for the Customer and also help other stuff to earn some money from the system. Alhamdulillah, I have developed the system for my university this make me proud.

REFERENCES

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[5] <https://www.ethicalweb.org/> Date: 23/04/2021 05:12 PM

APPENDIX

May include any supporting material which is not essential for the main body of the report.

These could be.

- Customer Manual or Guide
- Tables
- Details requirements
- Project literature review
- Diagrams.

Test plan and results

Good Food Plagiarism Report

ORIGINALITY REPORT

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