



**DEPARTMENT OF INFORMATION AND COMMUNICATION
TECHNOLOGY**

DIPLOMA IN INFORMATION TECHNOLOGY

(DIGITAL TECHNOLOGY)

DFT50114: INTEGRATED PROJECT

GOLDEN DOUGH MANAGEMENT SYSTEM

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1.0 Abstract

The Golden Dough Management System is a web-based system developed to coordinate, order and manage customer data. Current systems are inefficient and time-consuming, leading to errors, lost sales, and unhappy customers. The project aims to create a web-based system streamlining processes, increasing efficiency, reducing errors and increasing customer satisfaction. The objective of this project is to create a web-based system to manage a donut cafe. Streamline the process for tracking orders and customer data. Increase efficiency and reduce errors and improve customer satisfaction. Using Agile development methodology, the project will use HTML and PHP programming languages, with PHPMyAdmin as a web-based database management system. The results of this project can help the operation and increase the efficiency of other donut cafes. In addition, it can also lead to increased profits and customer satisfaction.

Sistem Pengurusan Golden Dough merupakan sebuah sistem berasaskan web yang dibangunkan untuk menyelaraskan, pesanan dan pengurusan data pelanggan. Sistem semasa adalah tidak cekap dan memakan masa, membawa kepada ralat, kehilangan jualan, dan pelanggan tidak berpuas hati. Projek ini bertujuan untuk mencipta sistem berasaskan web menyelaraskan proses, meningkatkan kecekapan, mengurangkan ralat dan meningkatkan kepuasan pelanggan. Objektif projek ini adalah untuk mewujudkan sistem berasaskan web untuk menguruskan kafe donut. Perkemas proses untuk menjejak pesanan dan data pelanggan. Meningkatkan kecekapan dan mengurangkan ralat serta meningkatkan kepuasan pelanggan. Menggunakan metodologi pembangunan Agile, projek ini akan menggunakan bahasa pengaturcaraan HTML dan PHP, dengan PHPMyAdmin sebagai sistem pengurusan pangkalan data berasaskan web. Hasil daripada projek ini dapat membantu operasi dan meningkatkan kecekapan kepada kafe donut yang lain. Selain itu, ia juga boleh membawa kepada peningkatan keuntungan dan kepuasan hati pelanggan.

2.0 PROJECT PLAN

2.1 Problem Statement

There problem statement of this project a as follows :

- i. Current order is using a manual ordering system.
The old ordering system can only order at the counter at the store but with this system users can order by the kiosk based ordering that will reduce time ordering.
- ii. No feedback platform from customers.
There is no fixed platform for customers to leave their opinion or feedback for the products.
- iii. Difficult to check the sales report.
Current sales report not effective. With the current system it is very difficult to check sales reports accurately and may cause errors in generating and recording reports.

2.2 Objective

The objectives of the project are as follows:

- i. To develop an order system that allows user order from the site.
- ii. To develop a feedback platform that review feedback from customer
- iii. To generate sales reports by monthly, weekly and yearly.

2.3 SCOPE

2.3.1 User Scope

Customer :

- i. Able to place orders for the product on the kiosk.
- ii. Able to view the menu and current highlighted menu.
- iii. Able to provide feedback of the products and service

Admin :

- i. Admin able to monitor inventory, sales and income of the company.
- ii. Admin able to access the system's database.
- iii. Admin able to update the menu and track the inventory.
- iv. Admin able to generate sales reports by weekly, monthly or yearly.

2.3.2 System Scope

Customer Facing-Features :

- i. System able to display menu and current highlighted menu
- ii. System able to generate a receipt for each order
- iii. System able to send order details via whatsapp

Admin Facing-Features :

- i. System able to generate sales reports , including reports by item, by day, by month, and by year
- ii. System able to track sales data.
- iii. The sales reporting system will be accessible to the client's employees.

2.4 LITERATURE REVIEWS

Based on Table 1.0, it shows the comparison from three existing system

Table 2.4 comparison

Project	Dunkin' Donuts	Big Apple Donut & Coffee	JCO Donuts
Link resources	https://www.dunkin-donuts.com.my/	https://www.bigappledonuts.com/	https://m.jcodonuts.com/my/
Programming language used	Java	PHP	Python
Hardware	Linux servers	Linux Server	Amazon web service
Software	Apache Tomcat, web server, MySQL database	Apache web server, MySQL database	Django, React Native, MySQL, Redis
Advantages	i. Customer can order product online through website ii. Provide a customer with information of their product and promotion	i. Customers can earn rewards by their purchase. ii. Customers can customise their order based on their taste.	i. Provide customer information about their products and company.

Disadvantages	i. There are few addresses that they can't provide delivery service	i. The system will redirect to third party apps for ordering rather than in the system	i. The system Doesn't have ordering system like other system
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Based on the literature review activity we did on similar doughnut sells companies, the following key points can be summarised. The weakness we found of the golden dough company is , it is still new and might be unknown to others . To address this weakness we plan to develop a web based system that can help their customers to make orders online in an efficient way . Aside from that it will help our client to manage their sales and generate reports by day, month ,or year. This will increase their sales productivity and reduce error from occurring. In another view , this proposed project will help them to promote their company in a commercial way

In conclusion , we believed that the proposed web-based system would be a valuable asset for Golden Dough company. It would provide a number of benefits that would help the company to improve their business.

2.5 METHODOLOGY

Agile methodology based on figure 1.0

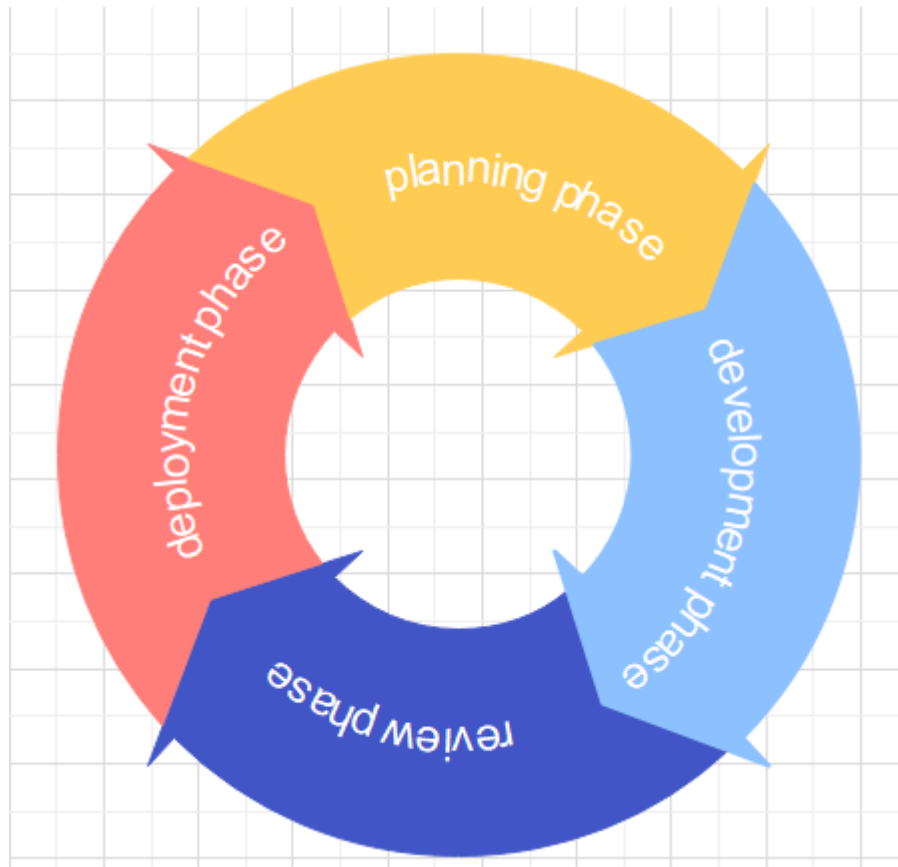


Figure 2.5.1 agile methodology

Agile methodology has been chosen for the developing this project due to its flexibility, collaboration, and customer-centric approach. The project involves developing a software solution for a client in the food industry, where requirements and scope are likely to change over time, and there is a high level of uncertainty. The agile methodology's iterative and incremental approach allows for continuous feedback and adjustments, ensuring that the project meets the customer's needs and requirements.

The phases involved in the agile methodology for the Golden Dough management system project are:

1. Planning Phase: The project team and the client will collaborate throughout this phase to define the project's requirements, scope, and deliverables. A list of all the features and functionality that need to be built will be included in the team's product backlog. In addition, the team will determine the project's deadlines and milestones and create a plan outlining the project's course.
2. Development Phase: The project team will develop the software solution during this phase. The group will divide the product backlog into sprints, which are shorter periods of time that run 1-4 weeks. The team will decide the tasks and activities that must be finished during each sprint before it begins. The team will collaborate to complete these assignments, and testing will be done at various stages of development to make sure the code is operating as intended.
3. Review Phase: The project team will analyse the work produced during the sprint and solicit client input throughout this phase. Any problems or difficulties will be identified, and any necessary adjustments will be made. Based on the comments received, the team will additionally update the product backlog and adjust the project's scope and timing as appropriate.
4. Deployment Phase: The project team will install the software solution in the client's environment during this phase. To help the client use the software solution efficiently, the team will also offer training and support.

2.6 GANTT CHART

Figure 2.6.1 show gantt chart that shows the plans and progress of our project (project schedule)



Figure 2.6.1 Gantt Chart

3.0 REQUIREMENT SPECIFICATION

3.1 Functional Requirement

The functional requirement for this project are as follows :

- i. The project must develop an order system that allows user order from the site.
- ii. The project must develop a feedback platform that reviews feedback from customers.
- iii. The project must generate sales reports daily, weekly and monthly.

3.2 Non-functional requirement

The non-functional requirement of the project are as follows :

- i. Performance. The system should respond to user actions within seconds.
- ii. Usability. The user interface should be user-friendly, allowing users to make an order with minimal effort.
- iii. Maintainability. The system should be written following the industry best practice for ease of maintenance.

3.3 Hardware and software requirement

Based on **Table 3.3.1**, it shows the list of hardware that is required to develop the Golden Dough Management System:

Table 3.3.1: Required Hardware

No	Hardware	Requirement
1.	Laptop	a) Processor : A multi-core processor (intel core i5 or AMD Ryzen 5) for better performance during the development phase. b) RAM : At least 8 GB of RAM to handle multiple software and development tools simultaneously. c) Storage : A minimum of 256 GB of SSD for faster read and write speeds.

Based on **Table 3.3.2**, it show the list of software that is required to develop Golden Dough Management System:

Table 3.3.2 Required Software

No	Software	Requirement
1.	Adobe Dreamweaver	a) A proprietary web development tool from Adobe Inc.
2.	Canva	a) A multi-national graphic design platform that is used to create social media graphics and presentations. Use to design the system.
3.	Php Myadmin	a) A free and open source administration tool for MySQL and MariaDB.
4.	Sublime text	a) Sublime Text is a shareware text and source code editor available for Windows, macOS, and Linux. It natively supports many programming languages and markup languages.

3.4 System Configuration

According to **Table 3.4.1**, it shows that the list of system that used in build, testing and developing Golden Dough Management System.

Table 3.4.1: System used in develop and testing the system

NO	HARDWARE	SPECIFICATIONS
1	ACER NITRO 5	CPU: Intel Core i7 - 11370H Graphics Card: NVIDIA GeForce GTX 1650 Operating System: Windows 11 Home Screen Size: 15.6 inch Hard Drive: 512 GB Storage Type: SSD RAM: 16 GB Resolution: 1920 x 1080 px
2	ACER PREDATOR HELIOS 300	CPU: Intel Core i7-10750H Graphics Card: NVIDIA GeForce RTX 3060 with 6 GB of dedicated GDDR6 Operating System: Windows 10/11 Home Screen Size: 15.6 inch Hard Drive: 512 GB Storage Type: PCIe NVMe SSD RAM: 16 GB Resolution: 1920 x 1080 px
3	ACER SWIFT 3	CPU: AMD Ryzen 5 5500U Graphics Card: AMD Radeon Graphics Operating System: Windows 11 Home Screen Size: 14 inch Hard Drive: 512 GB Storage Type: PCI Express RAM: 8 GB Resolution: 1920 x 1080 px

3.5 Security Requirement

The security measures of the project are as follows :

- i. Secure File Uploads.
If the system allows file uploads, validate and restrict file types the upload of malicious files.
- ii. Regular Security Updates.
Keep all software components, including the operating system, web server, and database, up to date with the latest patches.
- iii. Authentication and Authorization.
Implement a robust user authentication system to ensure that only authorised user can access sensitive areas of the application, such as admin panels and customer account.

4.0 FINAL DESIGN

4.1 Logical Design

i. Entity-Relationship Diagram (ERD)

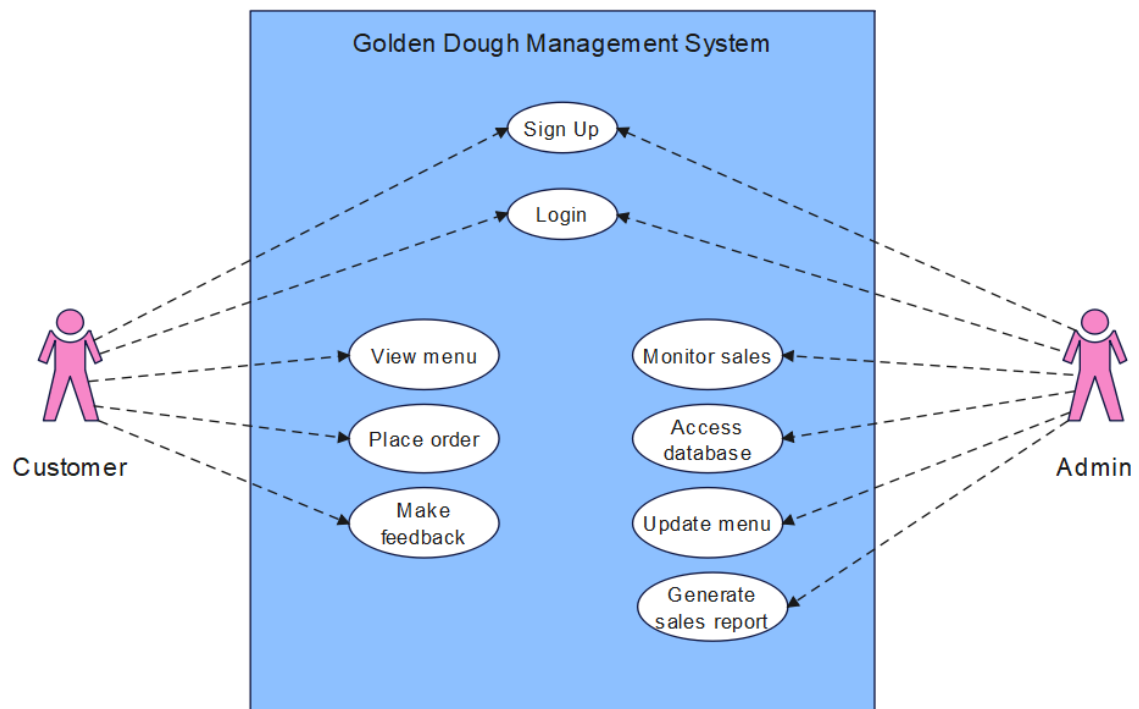


Figure 4.1.1 Golden Dough Management System ERD

ii. Functional Decomposition Diagram (FDD)

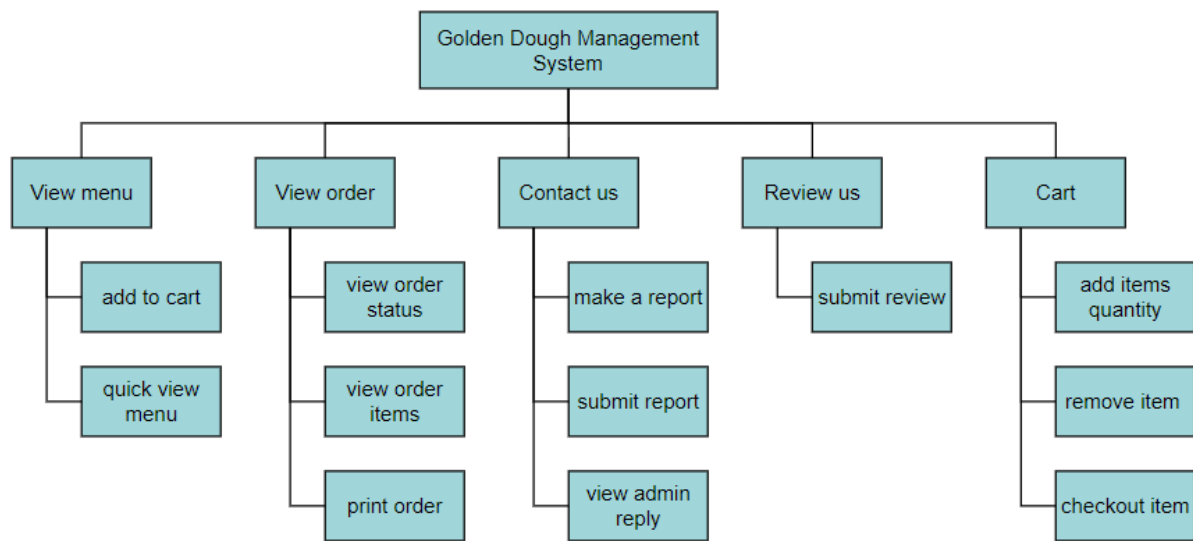


Figure 4.1.2 Golden Dough Management System FDD

iii. Context Diagram

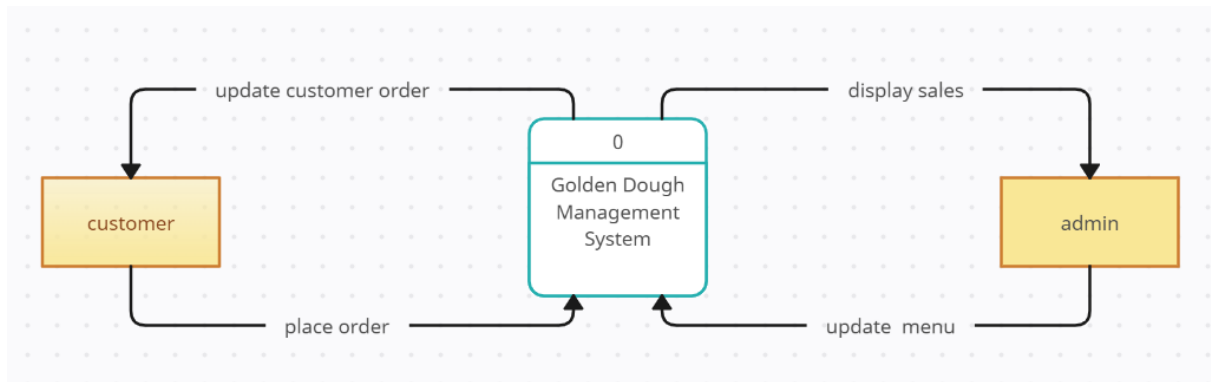


Figure 4.1.3 Golden Dough Management System CONTEXT DIAGRAM

iv. Data flow diagram

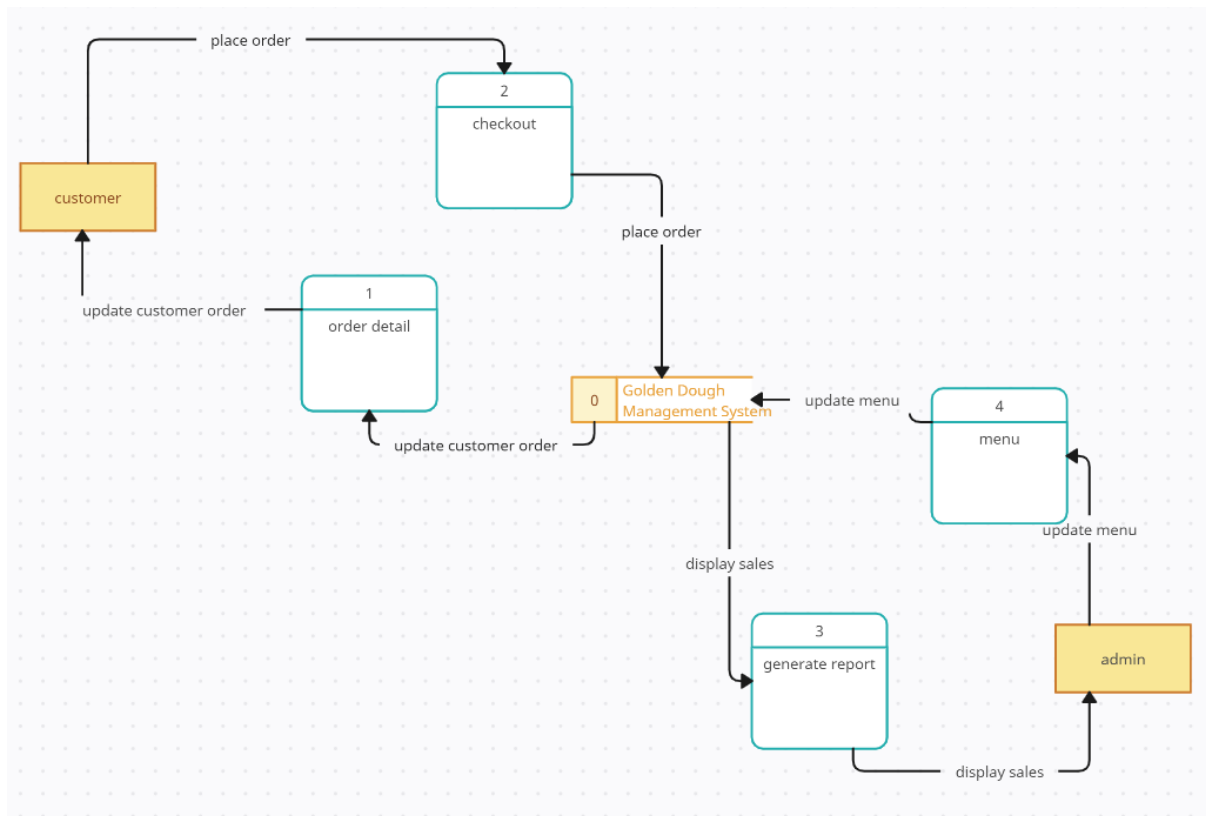


Figure 4.1.4 Golden Dough Management System DFD

4.2 Physical Design

i. User

1. Home page

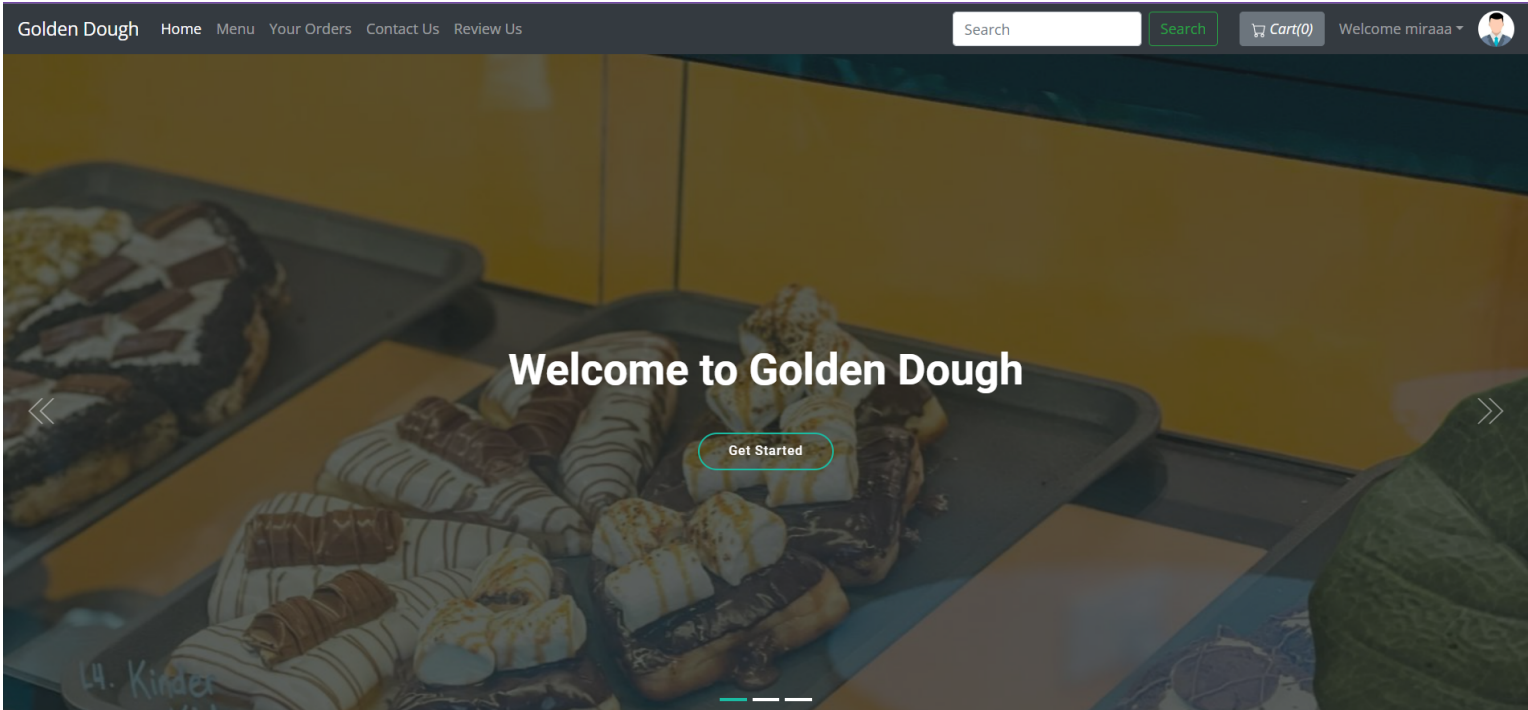


Figure 4.2.1 home page

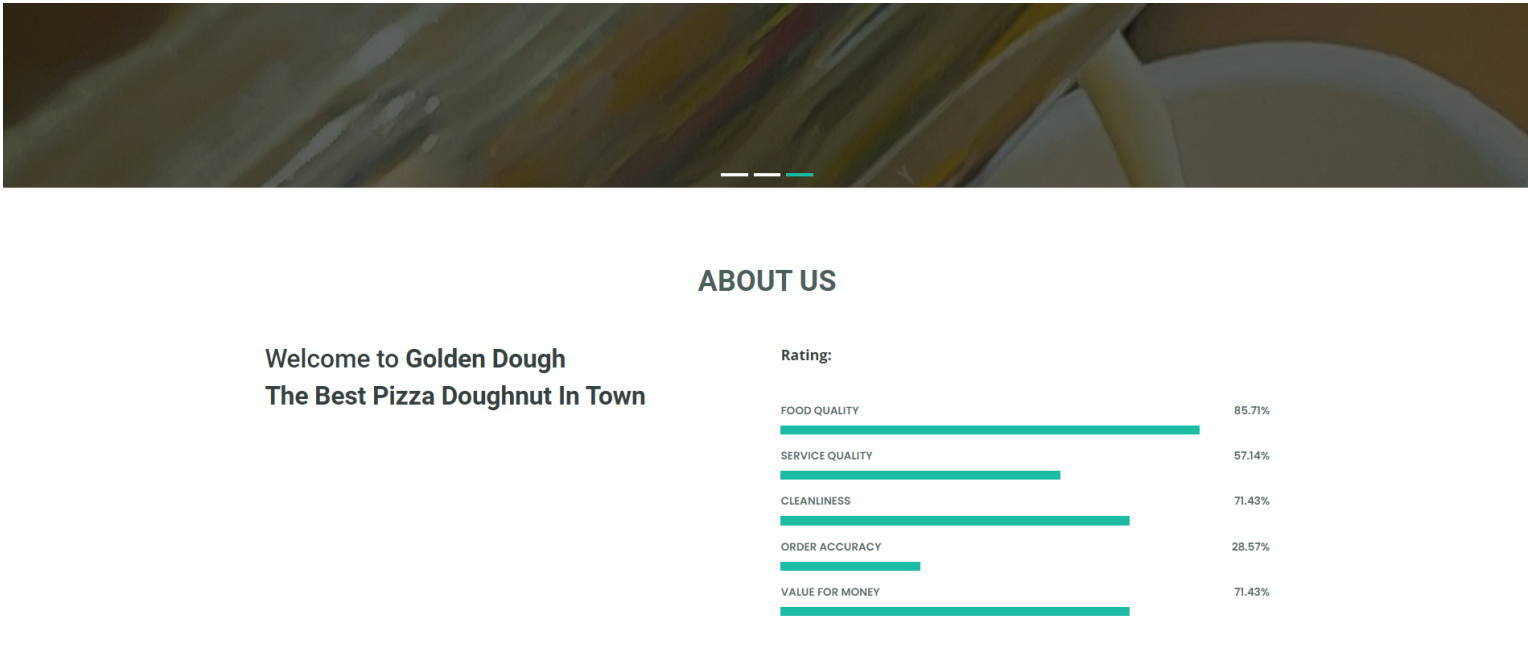


Figure 4.2.2 home page

2. Menu

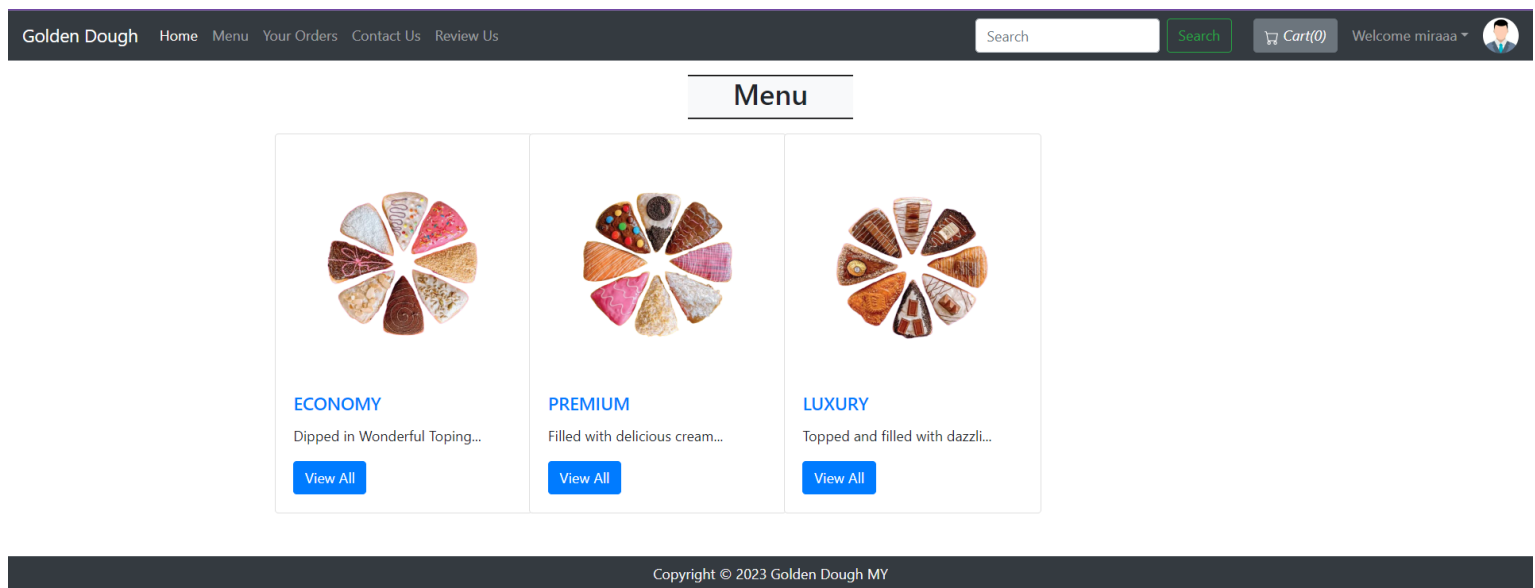


Figure 4.2.3 menu page

a. Economy

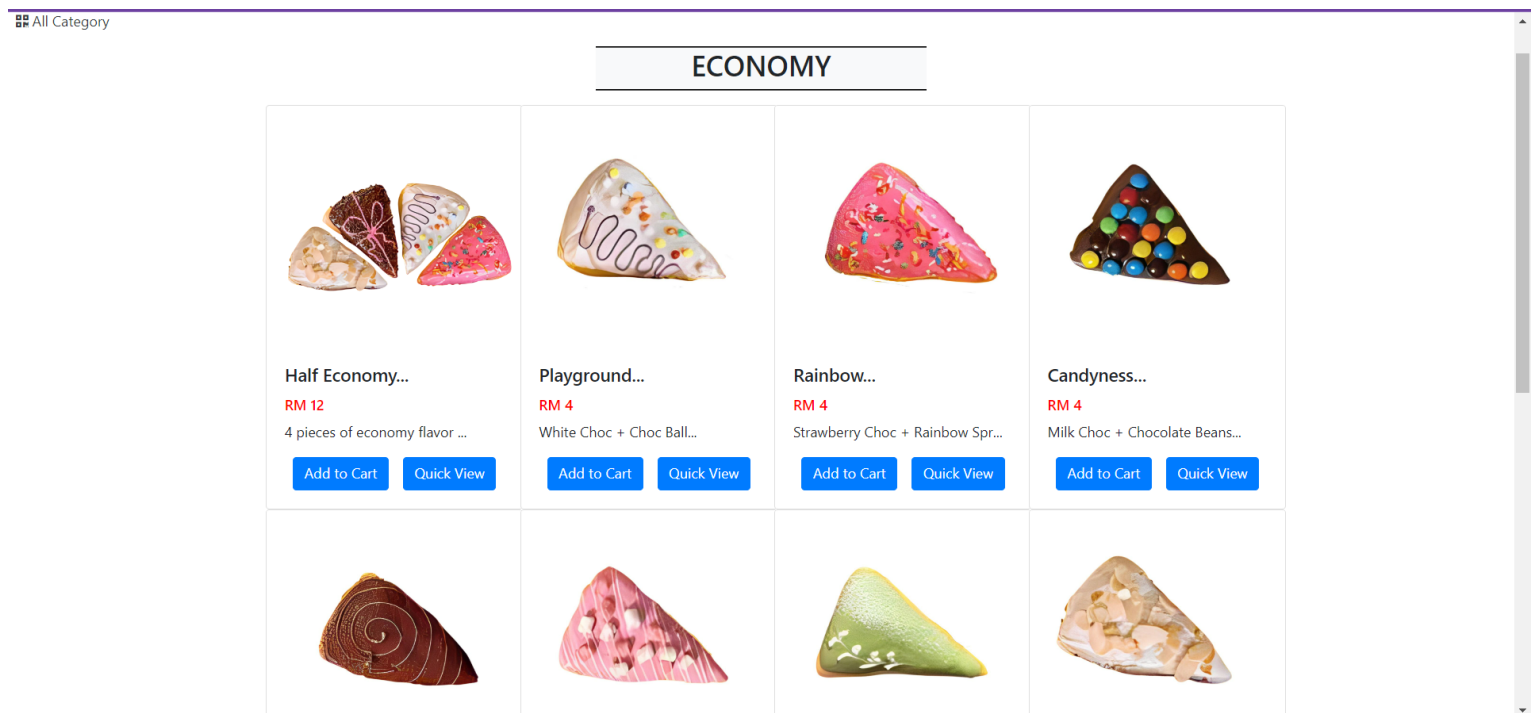


Figure 4.2.3 menu economy

b. Premium

PREMIUM			
 Half Premium... RM 16 4 pieces of premium flavor... Add to Cart Quick View	 Coffee Caramel... RM 5 Coffee Choc + Caramel Drizzle... Add to Cart Quick View	 Strawberry Delight... RM 5 Strawberry Choc + White Choc ... Add to Cart Quick View	 Garlicious... RM 5 Cream Cheese + Garlic Nuts Se... Add to Cart Quick View
			

Figure 4.2.4 menu premium

c. Luxury

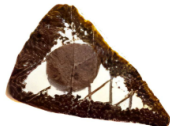
LUXURY			
 Half Luxury... RM 24 4 pieces of luxury ... Add to Cart Quick View	 Rich Rocher... RM 7 Nutella Spread + Hazelnut Cru... Add to Cart Quick View	 Gimmemore... RM 7 White Choc + Chipsmore Cookie... Add to Cart Quick View	 Dulce Smares ... RM 7 Milk Choc + Marshmallow + Car... Add to Cart Quick View
			

Figure 4.2.5 menu luxury

3. Your orders

Golden Dough

HomeMenuYour OrdersContact UsReview Us

Search

Search

Cart(0)

Welcome miraaa

Order Details

PrintRefresh List

Order Id	Name & Email	Phone No	Amount (RM)	Payment Mode	Order Date	Status	Items
17	miraaa, mira@gmail.c...	123020421	42	Cash	2023-08-04 00:35:22		
18	arip, mira@gmail.com...	230204211	5	Cash	2023-08-04 03:40:47		
19	ammmm, mira@gmail.co...	123020421	5	Cash	2023-08-04 03:42:07		

localhost/Golden Dough MY/index.php

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Figure 4.2.6 order details

4. Contact us

Golden Dough

HomeMenuYour OrdersContact UsReview Us

Search

Search

Cart(0)

Welcome miraaa

Contact Us

Email:Phone No:

mira@gmail.com+60 1230204211

Order Id:Password:

0Enter Password

If your problem is not related to the order(order id = 0).

How May We Help You ?

SUBMIT NOWHISTORY

ADDRESS

10 Lorong Orkid 2B/KS04, Kampung Raja Uda, 42000 Pelabuhan Klang, Selangor

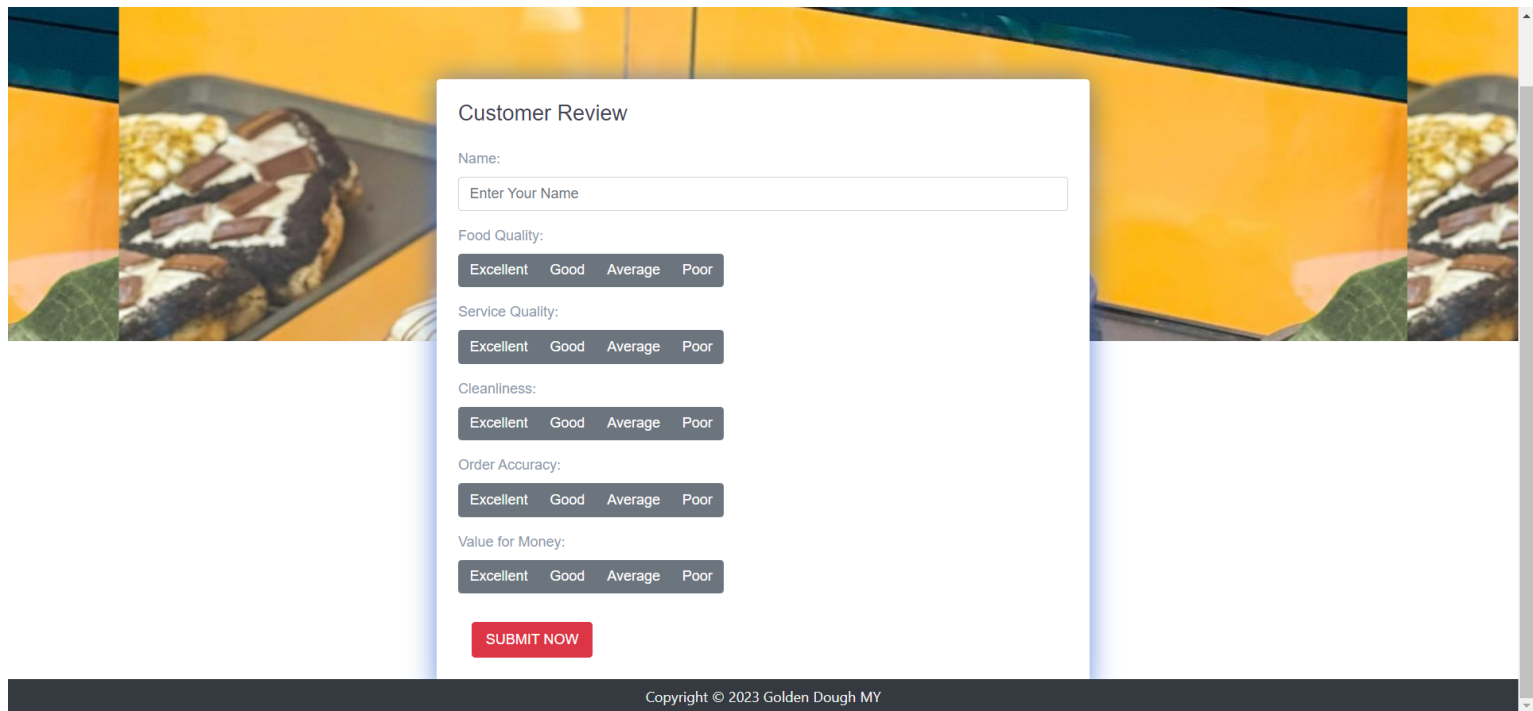
CALL US

11543114480

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Figure 4.2.7 contact us

5. Review us



Customer Review

Name:

Food Quality:

Service Quality:

Cleanliness:

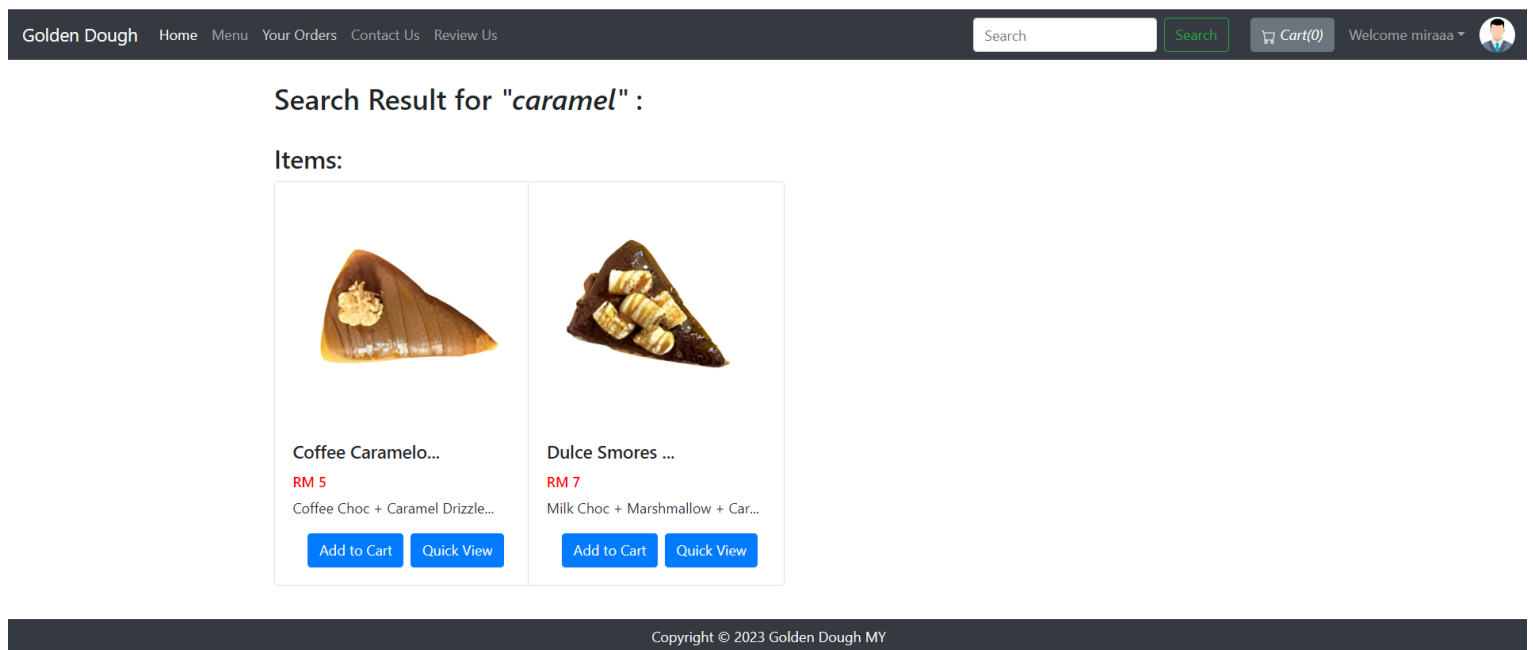
Order Accuracy:

Value for Money:

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Figure 4.2.8 customer review

6. Search



Golden Dough Home Menu Your Orders Contact Us Review Us Welcome miraaa

Search Result for "caramel" :

Items:

 Coffee Caramelo... RM 5 Coffee Choc + Caramel Drizzle... Add to Cart Quick View	 Dulce Smore ... RM 7 Milk Choc + Marshmallow + Car... Add to Cart Quick View
---	--

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localhost/Golden Dough MY/viewOrder.php

Figure 4.2.9 search result

7. Cart

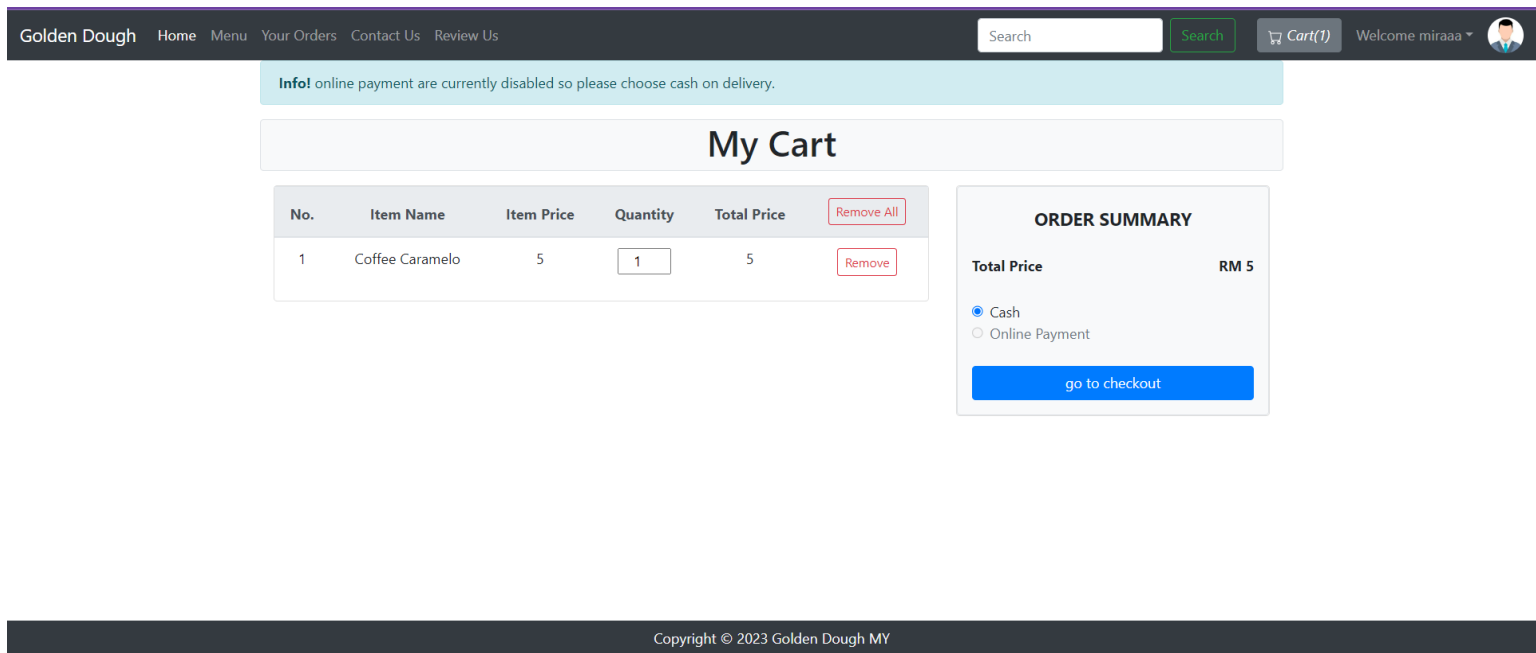


Figure 4.2.10 my cart

8. Profile

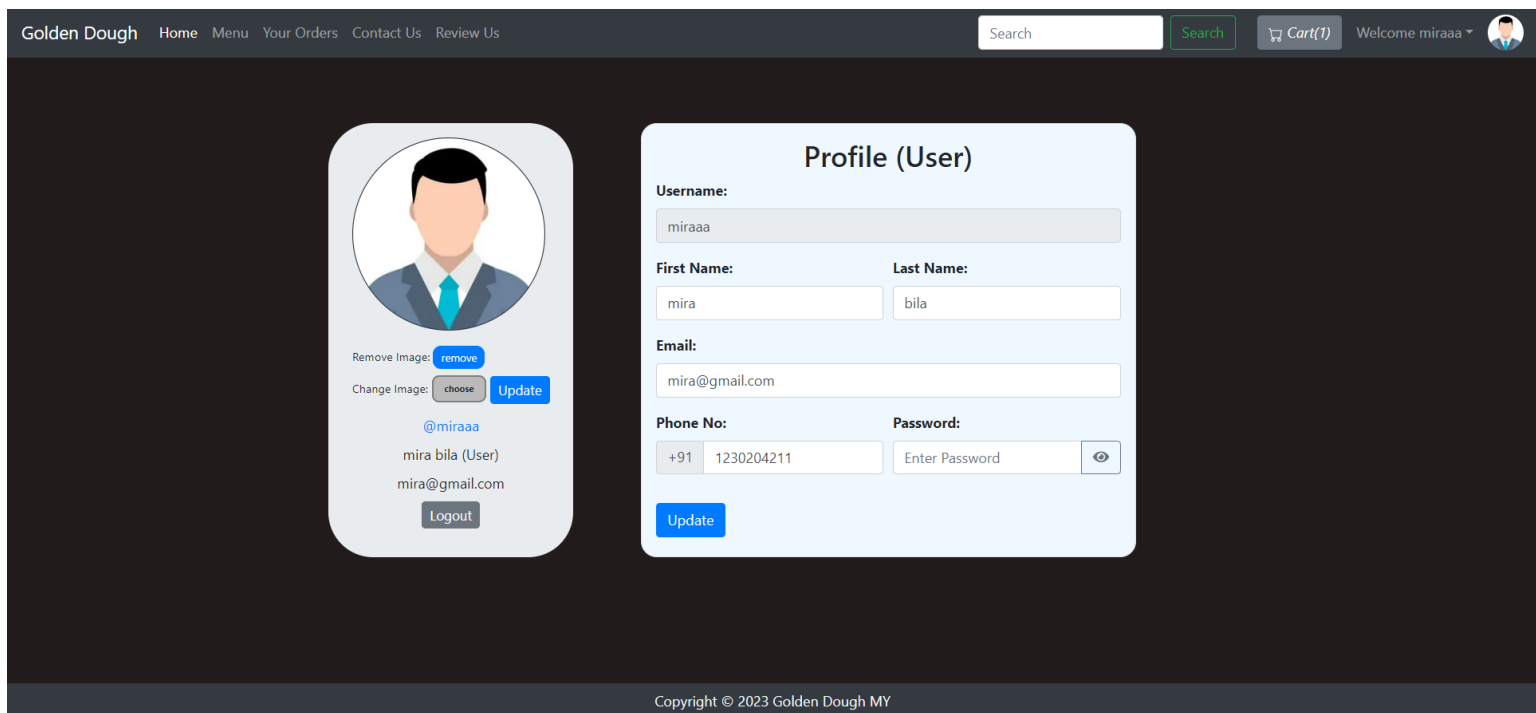


Figure 4.2.11 profile

ii. Admin

1. Home page

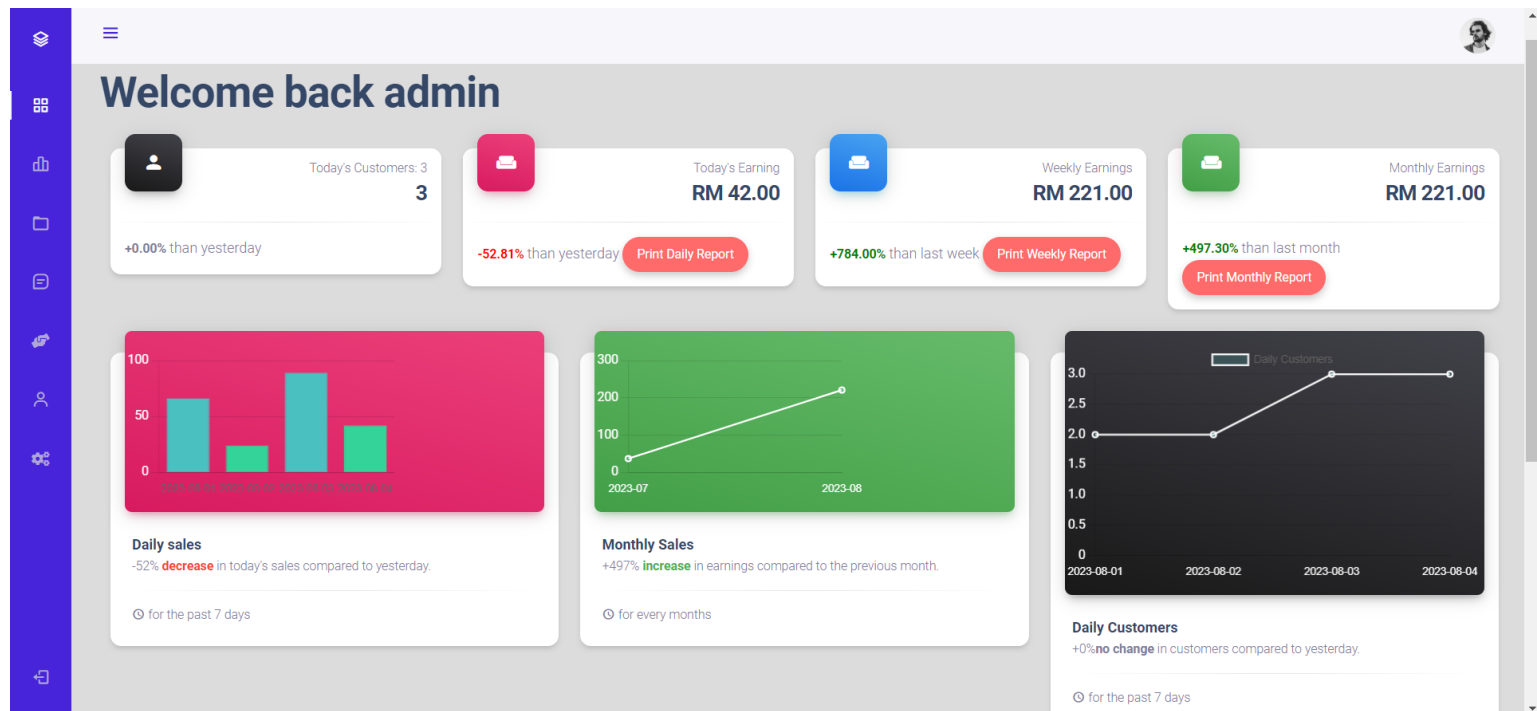


Figure 4.2.12 home page

2. Orders

Order Details								
Order Id	User Id	Address	Phone No	Amount	Payment Mode	Order Date	Status	Items
1	2	22, amr@gmail.com...	124020921	12	Cash	2023-07-13 01:21:42	→	→
2	2	44, hzq@gmail.com...	123456789	12	Cash	2023-07-13 01:25:16	→	→
3	2	amir, am@gmail.com...	124020921	36	Cash	2023-07-13 01:58:03	→	→
4	2	fikri, fikri@gmail.c...	124020921	17	Cash	2023-07-13 22:25:30	→	→
5	2	Angelo, gelo46@gmail...	178901234	5	Cash	2023-07-13 23:28:03	→	→
6	2	amir, amir@gmail.com...	124020921	12	Cash	2023-07-14 10:41:14	→	→
7	4	badli, badli@gmail.c...	12924949	23	Cash	2023-07-21 10:20:34	→	→
8	2	siti karim, amrhqz@g...	124020921	25	Cash	2023-07-25 23:26:54	→	→
9	2	amamam, amrhqz@gmail...	124020921	7	Cash	2023-07-26 22:28:13	→	→
10	2	amir haziq, amrhqz@g...	124020921	77	Cash	2023-08-03 15:22:30	→	→

Figure 4.2.13 order details

3. Category list

Create New Category

Category Name:

Category Desc:

Image

Choose File No file chosen

Please .jpg file upload.

Create

Id	Img	Category Detail	Action
1		Name : ECONOMY Description : Dipped in Wonderful Topping	Edit Delete
2		Name : PREMIUM Description : Filled with delicious cream	Edit Delete
3		Name : LUXURY Description : Topped and filled with dazzling chocolate	Edit Delete

Figure 4.2.14 category details

4. Menu

Create New Item

Name:

Description:

Price

Category:
None

Image

Choose File No file chosen

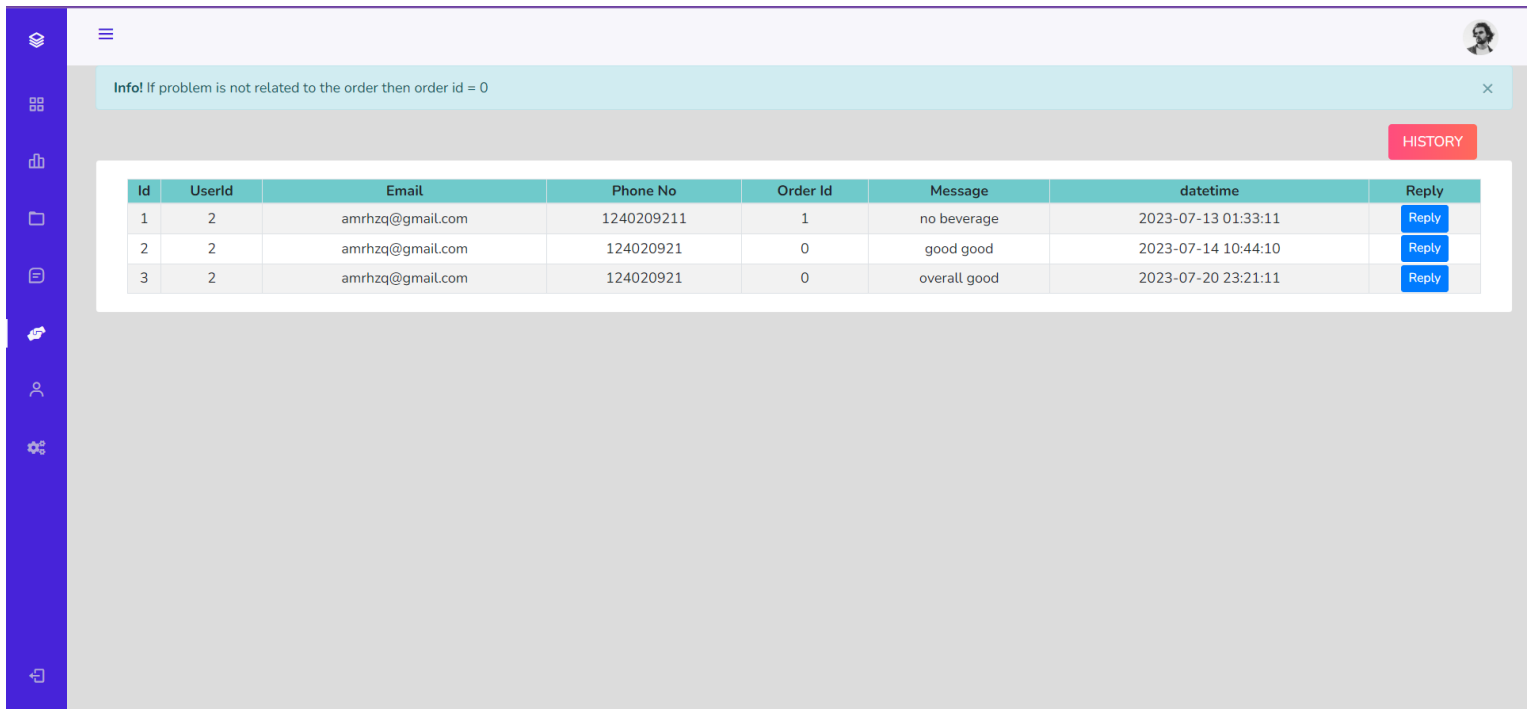
Please .jpg file upload.

Create

Cat. Id	Img	Item Detail	Action
1		Name : Half Economy Description : 4 pieces of economy flavor Price : 12	Edit Delete
2		Name : Half Premium Description : 4 pieces of premium flavor Price : 16	Edit Delete
3		Name : Half Luxury Description : 4 pieces of luxury Price : 24	Edit Delete
1		Name : Playground Description : White Choc + Choc Ball	Edit Delete

Figure 4.2.15 item details

5. Contact info



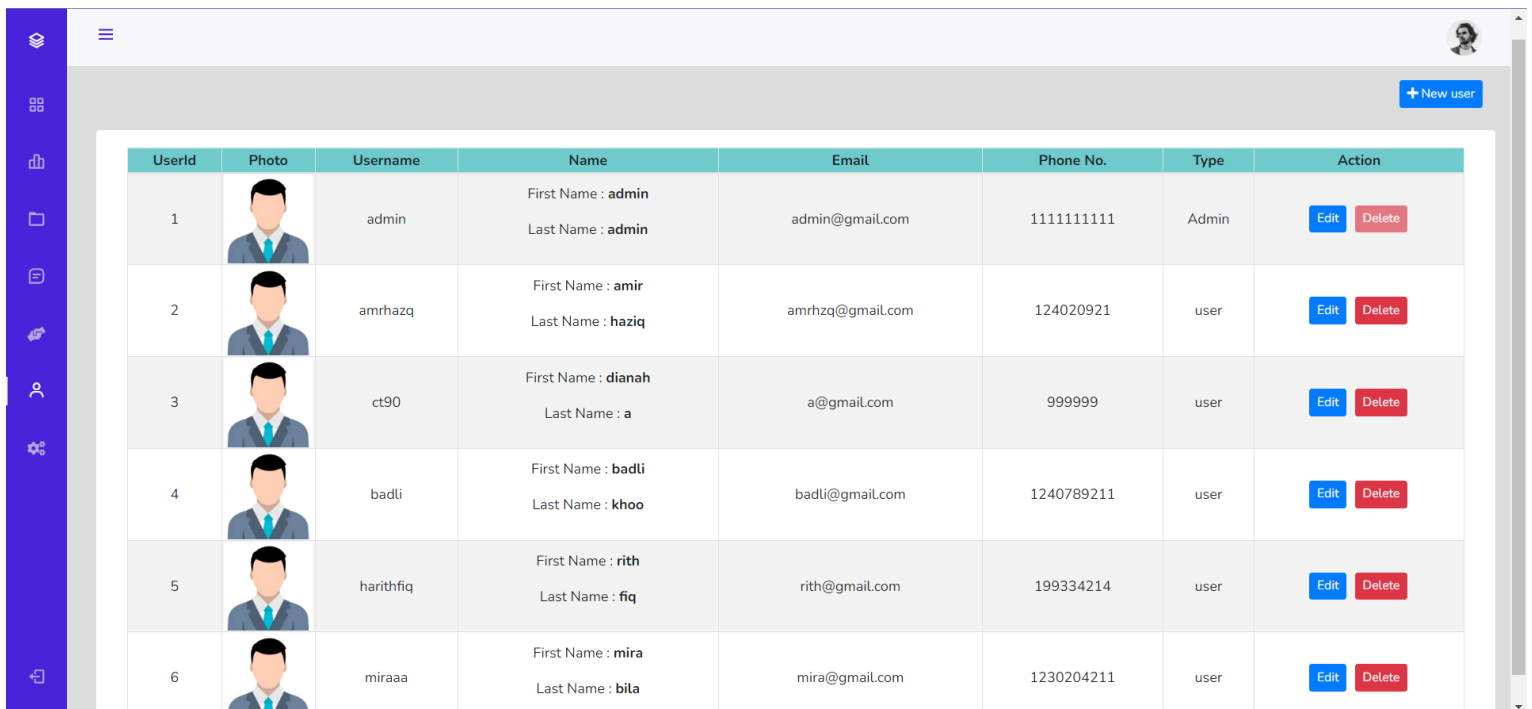
Info! If problem is not related to the order then order id = 0

HISTORY

Id	UserId	Email	Phone No	Order Id	Message	datetime	Reply
1	2	amrhzq@gmail.com	1240209211	1	no beverage	2023-07-13 01:33:11	Reply
2	2	amrhzq@gmail.com	124020921	0	good good	2023-07-14 10:44:10	Reply
3	2	amrhzq@gmail.com	124020921	0	overall good	2023-07-20 23:21:11	Reply

Figure 4.2.17 contact info

6. Users

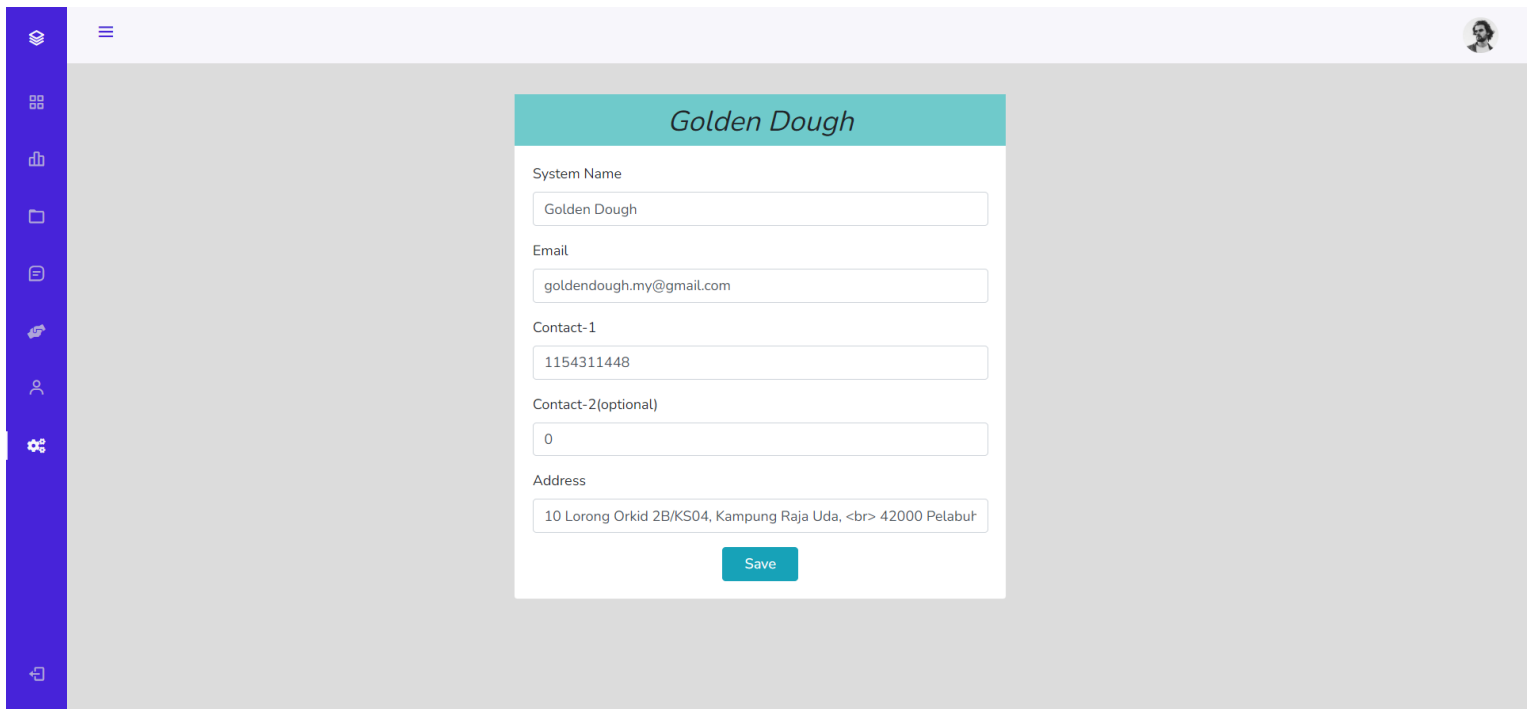


+ New user

Userid	Photo	Username	Name	Email	Phone No.	Type	Action
1		admin	First Name : admin Last Name : admin	admin@gmail.com	1111111111	Admin	Edit Delete
2		amrhazq	First Name : amir Last Name : haziq	amrhazq@gmail.com	124020921	user	Edit Delete
3		ct90	First Name : dianah Last Name : a	a@gmail.com	999999	user	Edit Delete
4		badli	First Name : badli Last Name : khoo	badli@gmail.com	1240789211	user	Edit Delete
5		harithfiq	First Name : rith Last Name : fiq	rith@gmail.com	199334214	user	Edit Delete
6		miraaa	First Name : mira Last Name : bila	mira@gmail.com	1230204211	user	Edit Delete

Figure 4.2.17 user

7. Site settings



The screenshot shows a web application interface for site settings. On the left is a vertical blue sidebar with icons for home, settings, documents, calendar, mail, and user profile. The main content area has a light gray background. At the top right of this area is a user profile icon. The settings form is a white box with a teal header bar containing the text "Golden Dough". The form contains several input fields: "System Name" (Golden Dough), "Email" (goldendough.my@gmail.com), "Contact-1" (1154311448), "Contact-2(optional)" (0), and "Address" (10 Lorong Orkid 2B/KS04, Kampung Raja Uda,
 42000 Pelabuh). A teal "Save" button is at the bottom right of the form.

Golden Dough

System Name

Golden Dough

Email

goldendough.my@gmail.com

Contact-1

1154311448

Contact-2(optional)

0

Address

10 Lorong Orkid 2B/KS04, Kampung Raja Uda,
 42000 Pelabuh

Save

Figure 4.2.18 site setting

5.0 TEST DESCRIPTION AND RESULT

5.1 Unit testing plan

UNIT TESTING PLAN (UTP)

No	Test Case Name	Test Procedure	Pre-Condition	Expected Result	Tester	Result (Pass/Failure)
1	Empty search	User are required to click the "Search" button	User cannot search the items	"Please fill out this field" will pop up	Harith	Pass
2	Login empty	User click "Login" button	User cannot login	"Please fill out this field" will pop up	Harith	Pass
3	Login error	User enter wrong username and password	User cannot login	Message box "Warning! Invalid Credentials" will appear	Harith	Pass
4	Login	User fill the true password	User can login	User account name will appear at the top right corner home page	Harith	Pass
5	Sign up empty	User click "SignUp" button	User cannot sign up	"Please fill out this field" will pop up	Harith	Pass
6	Wrong password format for sign up	User fill password three character length	User cannot sign up	"Please lengthen this text to 4 character or more (you are currently using 3 characters)" will pop up	Harith	Pass
7	Sign up	User fill the right format details form	User cannot sign up with the same credential	New user account created and messages "Success! You can now login" Will pop out	Harith	Pass

8	Add to cart	User click to “Add to Cart” button	None	Cart icon will count depends on item user add to cart and text button will change to “Go to cart”	Harith	Pass
9	Quantity item count	User click arrow up or down button	None	Quantity item will be increased or decrease	Harith	Pass
10	Remove	User click “Remove” button	None	Item menu will be remove from cart	Harith	Pass
11	Go to checkout	User click “go to checkout” button	User need to fill the form and enter password	Form details will be pop out	Harith	Pass
12	Order	User click “Order” button	Must login or signup account	Message box will appear “Thanks for ordering with us. Your order id is #”.	Harith	Pass
13	Status order	User click icon arrow at column status	Must login or signup account	Order Status message box will pop out	Harith	Pass
14	Customer help form	User click “SUBMIT NOW” button	Must login or signup account	Message box “Thanks for Contact us. Your contact is #. We will contact you very soon” will pop out	Harith	Pass
15	Customer help empty	User does not fill the form and click “SUBMIT NOW” button	Must login or signup account	“Please fill out this field” will pop up	Harith	Pass
16	History customer help	User click “HISTORY” button	Must login or signup account	“Your Sent Message” history message box will appear	Harith	Pass

17	Admin reply	User click icon message	Must login or signup account	Admin reply message box will pop out	Harith	Pass
18	Customer Review not login	User click “SUBMIT NOW” button	User cannot click button submit review	Message “First login to Review Us” display under the “SUBMIT NOW” button	Harith	Pass
19	Admin customer order status	Admin click on arrow icon status	Admin must login	Message box “Order Status and Delivery Details” will shown	Arif	Pass
20	Order status type update	Admin fill in number types 0=Order Placed. 1=Order Confirmed. 2=Preparing your Order. 3=Your order is on the way! 4=Order Delivered. 5=Order Denied. 6=Order Cancelled. and click on “Update” button	Admin must login	Message box “update successfully” will pop up	Arif	Pass
21	Order status type update	Admin fill in Estimate Time(minute) and click on “Update” button	Admin must login	Message box “update successfully” will pop up	Arif	Pass
22	Customer items order	Admin click on arrow icon items	Admin must login	Message box “Order Items (Order Id: #)” and quantity will shown	Arif	Pass

23	Print customer order details	Admin click “Print” button	Admin must login	Print setting will pop out	Arif	Pass
24	Refresh List customers order details	Admin click on “Refresh List” button	Admin must login	New status order from customer will be update	Arif	Pass
25	Choose File image for category menu	Admin click “Choose File” button	Admin must login	Pop out file will be open directly to upload image for menu category	Arif	Pass
26	Create new category	Fill the form, choose image menu and click “Create” button	Admin must login	New category menu will be updated in the list	Arif	Pass
27	Empty create new category	Admin does not fill the form and click “Create” button	Admin must login	“Please fill out this field” will pop up	Arif	Pass
28	Action edit	Admin click action “Edit” button	Admin must login	Category menu details form will pop up	Arif	Pass
29	Update image menu category	Admin click “Update Img” button	Admin must login	New menu category image will be updated on the list	Arif	Pass
30	Update category menu	Admin fill the form and click on “Update” button	Admin must login	Message box “update” will popup and new menu category details will be updated on the list	Arif	Pass

31	Action delete	Admin click on “Delete” button	Admin must login	Message box “remove” will pop up and menu category details will be deleted on the list	Arif	Pass
32	Create new item	Fill the form, choose image menu and click “Create” button	Admin must login	New item detail will be updated in the list	Arif	Pass
33	Empty create new item	Admin does not fill the form and click “Create” button	Admin must login	“Please fill out this field” will pop up	Arif	Pass
34	Action edit	Admin click action “Edit” button	Admin must login	Item menu details form will pop up	Arif	Pass
35	Update image item menu	Admin click “Update Img” button	Admin must login	New item menu image will be updated on the list	Arif	Pass
36	Update item menu	Admin fill the form and click on “Update” button	Admin must login	Message box “update” will pop up and new item menu details will be updated on the list	Arif	Pass
37	Action delete	Admin click on “Delete” button	Admin must login	Message box “remove” will pop up and item menu details will be deleted on the list	Arif	Pass
38	Reply customer contact info	Amin click on “Reply” button	Admin must login	Reply message box will pop out	Amir	Pass

39	Reply customer messages	Admin fill the reply message and click on “Reply” button	Admin must login	Message box “Success” will pop up and will updated on “HiSTORY” lists	Amir	Pass
40	Reply history customer messages	Admin click on “HISTORY” button	Admin must login	“Your Sent Message” message box will pop out and shown reply message to customer	Amir	Pass
41	Create new user or admin	Admin click on “+New user” button	Admin must login	Create New User form will pop out	Amir	Pass
42	Create new user Empty	Admin does not fill the form and click “Submit” button	Admin must login	“Please fill out this field” will pop up	Amir	Pass
43	Phone number wrong format	Admin fill out all the form but fill the phone number with wrong format	Admin must login	“Please match the requested format” will pop up	Amir	Pass
44	Wrong password format for create new user	Admin fill password three character length	Admin must login	“Please lengthen this text to 4 character or more (you are currently using 3 characters)” will pop up	Amir	Pass
45	Submit for create new user	Admin fill out the details form and click “Submit” button	Admin must login	“Success” message box will pop out and updated user on the table users list	Amir	Pass
46	Action edit	Admin click action “Edit” button	Admin must login	User details form will pop up	Amir	Pass

47	Update image user	Admin click “Update Img” button	Admin must login	New user image will be updated on the list	Amir	Pass
48	Update new user	Admin fill the form and click on “Update” button	Admin must login	Message box “update successfully” will pop up and new user details will be updated on the list	Amir	Pass
49	Action delete	Admin click on “Delete” button	Admin must login	Message box “Removed” will pop up and user details will be deleted on the list	Amir	Pass
50	Site setting manage	Admin fill all the form and click on “Save” button	Admin must login	Message box “success” will pop up	Amir	Pass
51	Email wrong format	Admin fill all the form but fill wrong format for email	Admin must login	“Please include an ‘@’ in the email address, ‘goldendough.myPle asegmail.com’ is missing an ‘@’” .	Amir	Pass

5.2 Integration testing plan

INTEGRATION TESTING PLAN (ITP)

No	Test Case Name	Test Procedure	Pre-Condition	Expected Result	Tester	Result (Pass/Failure)
1	Menu page	User are required to click “Get Started” button and go to menu list page	None	User will be directed to menu list page	Harith	Pass
2	Search filled	User fill item name in search bar	User can search the item	Item searched will appear in search page	Harith	Pass
3	Cart not login user	User are required to click the “Cart” button	User are not required to login	Message box pop out “Before checkout user need to login” in viewCart page	Harith	Pass
4	Category view all menu list	User required to click view all button according to its category	None	All menu list will appear in category page	Harith	Pass
5	All Category hyperlink text	User click “All Category” hyperlink text	None	User go to all category page	Harith	Pass
6	Go to cart	User need to click “Go to Cart” button	None	User will go to My Cart page	Harith	Pass
7	Quick view	User click quick view button	None	Menu information will be displayed on viewPizza page	Harith	Pass

8	Back hyperlink text	User click “Back” hyperlink text	None	User will go back to viewPizzaList page	Harith	Pass
9	Help Desk	User click on “Help” button	Must login or signup account	Form customer help appear on the contact page	Harith	Pass
10	Navbar Home	User click on “Home” navbar	None	User will be on Home page	Harith	Pass
11	Navbar Menu	User click on “Menu” navbar	None	User will be on Menu page	Harith	Pass
12	Navbar Your Orders	User click on “Your Orders” navbar	None	User will be on Your Orders page	Harith	Pass
13	Navbar Contact Us	User click on “Contact Us” navbar	None	User will be on Contact Us page	Harith	Pass
14	Navbar Review Us	User click on “Review Us” navbar	None	User will be on Review Us page	Harith	Pass
15	Admin home side bar	Admin click on “Home” side bar	Admin must login	Admin will on the Statistic chart update page	Arif	Pass
16	Admin orders details side bar	Admin click on “Orders” side bar	Admin must login	Admin will on the “Order Details” update page	Arif	Pass
17	Admin category list side bar	Admin click on “Category List” side bar	Admin must login	Admin will on the Create New Category page	Arif	Pass
18	Admin menu side bar	Admin click on “Menu” side bar	Admin must login	Admin will on the Create New Item page	Arif	Pass

19	Admin contact info side bar	Admin click on “Contact Info” side bar	Admin must login	Admin will be on the table customer contact lists page	Arif	Pass
20	Admin users side bar	Admin click on “Users” side bar	Admin must login	Admin will be on the table user details lists page	Arif	Pass
21	Admin site settings side bar	Admin click on “Site Settings” side bar	Admin must login	Admin will be on the form Golden Dough site setting page	Arif	Pass
22	Admin log out side bar	Admin click on “Log Out” side bar	Admin must login	Admin will be logged out from admin page	Arif	Pass

6.0 MAJOR FINDINGS AND DISCUSSION

6.1 The advantages of the project

The advantages of the project are as follows :

i. Increase Business Productivity.

The automation of the order process and report generation frees up valuable time for employees to focus on the other critical tasks, increasing overall business productivity.

ii. Competitive Advantage.

By providing a user-friendly order system and efficient feedback platform, the business gains competitive advantages in the market, attracting more customers and retaining existing ones.

iii. Scalability and Growth Potential.

The sales reports and customer feedback help the business make data-driven decisions that can contribute to its growth and success.

6.2 The disadvantages of the project

The disadvantages of the project are as follows :

- i. **Cost of Development and Maintenance.**
Building and maintaining a sophisticated system like this can be expensive, including costs related to software licences, hardware, development resources, and ongoing maintenance and support.
- ii. **User Adoption and Training.**
Introducing a new system may require users which are both customers and employees to adapt to the system. Proper training and support might be necessary to ensure smooth adoption.
- iii. **Technical Issues and Downtime**
Like any software, the project might experience technical issues, bugs, or downtime, which can affect order processing and customer satisfaction.

7.0 RECOMMENDATION AND CONCLUSION

Based on the analysis of the proposed web-based system for Golden Dough, we strongly recommend moving forward with the project. The system's features, such as an organized menu and social media integration, will offer significant benefits to the business. Implementing the system will enhance customer experience by providing a user-friendly interface and easy access to the menu items, leading to increased customer satisfaction and loyalty. Additionally, the promotion capabilities through social media integration will enable Golden Dough to reach a wider audience, ultimately driving more sales and revenue. The project aligns perfectly with the restaurant's goals for growth and efficiency, making it a valuable investment for the future.

In conclusion, the proposed web-based system is a strategic initiative that will bring considerable advantages to Golden Dough. By embracing technology and providing a seamless digital experience, the restaurant can enhance its operational efficiency, improve customer satisfaction, and gain a competitive edge in the market. The system's features, including an organized menu and social media integration, cater to the needs of both customers and the business. We believe that the successful execution of this project will lead to a thriving online presence, increased sales, and continued success for Golden Dough in the dynamic and competitive restaurant industry.

8.0 REFERENCES

References

Reality, Rock Paper. "Use Cases of Augmented Reality in the Food & Beverage Industry." *Rock Paper Reality*, <https://www.facebook.com/RockReality>, 29 Nov. 2022, <https://rockpaperreality.com/insights/ar-use-cases/top-use-cases-augmented-reality-food-beverage/#augmented-reality-food-menus-bring-dishes-to-life>.

echo3D. (2022, February 10). *How augmented reality (AR) is reshaping the Food Service Industry*. Medium. Retrieved March 3, 2023, from <https://medium.com/echo3d/how-augmented-reality-ar-is-reshaping-the-food-service-industry-a558039badad>

Sohail, S. (2022, November 30). *A Guide on How to Build an Augmented Reality App in 2023*. TekRevol. <https://www.tekrevol.com/blogs/how-to-build-an-augmented-reality-apps/>

Zabriskie, M. (2021, April 13). *The world's 50 best foods*. CNN. <https://edition.cnn.com/travel/article/world-best-food-dishes/index.html>