



A
PROJECT REPORT ON

TIFFIN DELIVERY AND MANAGEMENT SYSTEM

SUBMITTED IN
PARTIAL FULFILLMENT OF

DIPLOMA IN ADVANCED COMPUTING (PG-DAC)



BY

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UNDER THE GUIDANCE OF
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AT

**SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY,
PUNE**

CERTIFICATE

This is to certify that the project

TIFFIN DELIVERY AND MANAGEMENT SYSTEM

Has been submitted by

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Mr. Viraj Khalate**

In partial fulfillment of the requirement for the Course of **PG Diploma in Advanced Computing (PG-DAC September, 2023)** as prescribed by The **CDAC ACTS, PUNE.**

Place: Pune
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Project Guide

Date: 22-FEB-2024
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Course Coordinator

ACKNOWLEDGEMENT

A project usually falls short of its expectation unless aided and guided by the right persons at the right time. We avail this opportunity to express our deep sense of gratitude towards **Mr. Nitin Kudale (Center Coordinator, SIIT,Pune)** and **Mr. Rajiv Kamune (Course Coordinator, SIIT, Pune)**

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

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Miss.Pooja Jaiswal

DAC Sept, 2023 Batch,

SIIT PUNE

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1. INTRODUCTION TO PROJECT

The web based “Tiffin Delivery and Management System” project is an attempt to simulate the basic concepts of Tiffin Delivery and Management chain. The system is designed mainly through the perspective of the tiffin provider.

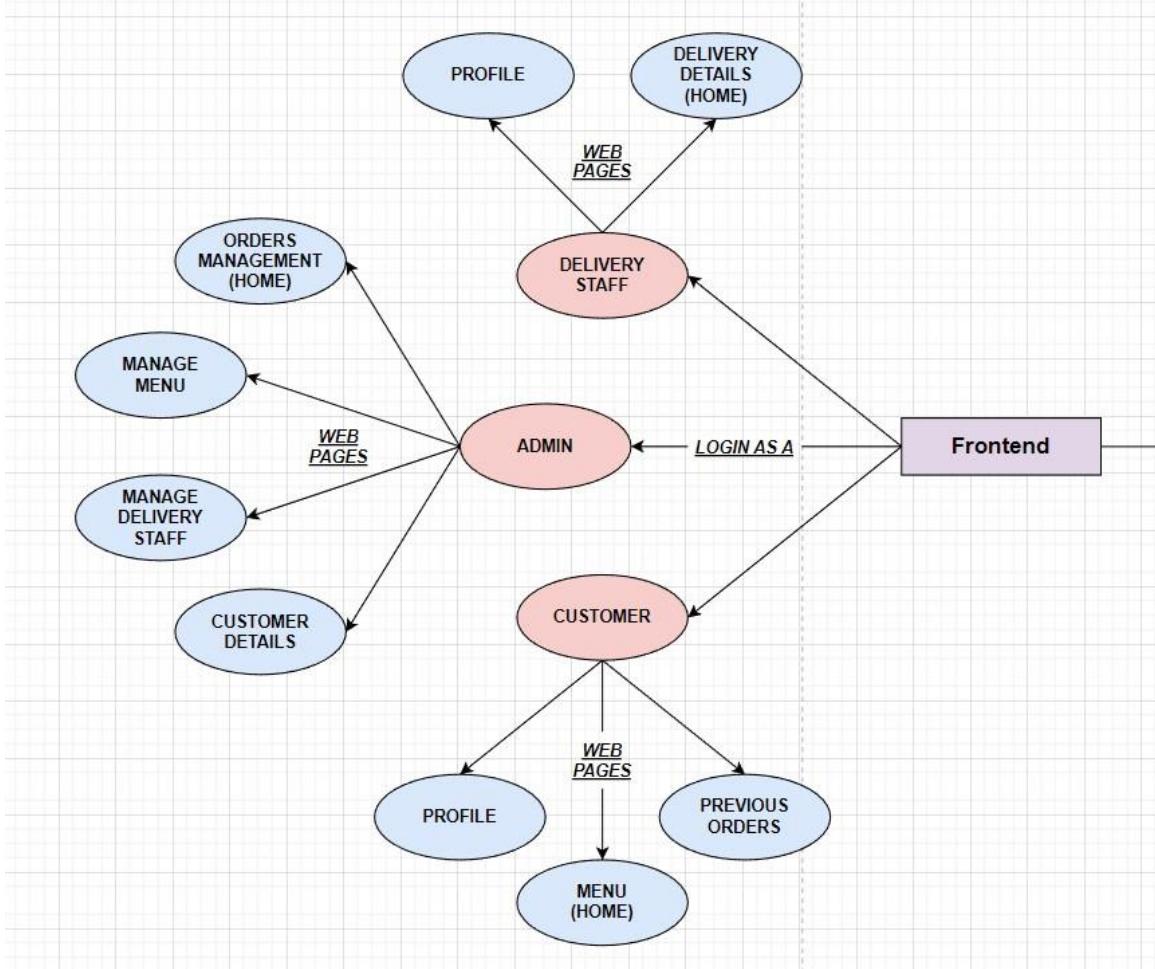
Customer needs to Sign up and check the menu and order the tiffin as per the requirement for required period. Customer needs to add his/her address where the tiffin needs to be delivered before ordering the tiffin. As per customers requirement he/she must have to do payment for the amount generated for that period according to the chosen tiffin.

The system allows the admin to post the tiffin details, manage orders and delivery staff. The admin can add new tiffin in the system, edit the existing system & delete the tiffin as per the requirement of mess provide. Admin can add new addresses where mess are available to deliver the tiffin. Admin can manage the customers. He can get currently active customers who are ordering tiffin’s from this system & can able to delete the inactive customers. Admin can add new Delivery Boy to the system & able to delete the existing Delivery Boy.

When user orders the tiffin, then that tiffin is moved to the “Pending Orders” category. When the tiffin is ready in the local mess, the admin must assign delivery boy to that particular order. After assigning the delivery boy, the status of that order is changed from “Pending” to “Dispatched.” The Delivery Boy has a basic role to accept the order and deliver the tiffin to mentioned address/location. After delivering tiffin to the specified address, the order is moved from “Dispatched” to “Delivered.”

2.REQUIREMENTS

2.1.FUNCTIONAL REQUIREMENTS



1. User Account

The frontend design of this website is done on widely used React-JS Technology which is very powerful and lightweight as it supports single page application it is faster to render and use advance way of session tracking using JWT token. Basically we have three roles User, Admin and Delivery boy so with reference to above diagram admin will have total control on his business. Initially through sign in page admin will authenticate and authorize himself this is done by widely used technology called JWT(Jason Web Token) after this he will get to know his total functionality through which he will manage the menu of tiffin if and new requirement hits him he can work accordingly and add new type of tiffin in their business. Also, If the business group decide for expansion they can increase their area as they have an option of manipulating their delivery area. Admin will also have a functionality to add delivery boy or delete any delivery boy who left the work and no longer

needed. The order management functionality will give him total control over the ongoing order prepared ordered and delivered order thank to RDBMS for maintaining these information in well managed structured format. For User at abstract level he will use to know the tiffin detail information and according he can checkout and choose his duration one user can order more than one tiffin at a time the payment gateway will make sure the user will pay more securely as payment give to him. Delivery boy will have the functionality that to update the delivery status when the tiffin reaches its destination.

2. Registration and creation of user profile:

Admin:

The Admin role is key role of this business and the admin of the app is basically our customer for our web app development team. So basically, Admin is the owner of that mess or canteen. So, there are limited admin for any kind of business and the variation seen in them is very rare so at the time of deployment of this web app we will provide Admin with his username and Passwords as given by him, so basically, we are not going to register the admin via registration page we will add admin during the development phase of this app.

Customer:

Customer is basically vary as per the time so at the registration page customer have to fill his necessary details such as email id, contact number, Aadhar No, User name and Password. When the user fills this information backend of this Web App is using spring boot and core technology so it provides the encryption and decryption of password so it will make sure the data safety from Database Admin also. When the registration process completed user redirected to login page through which he could login to main page where he can see the menus and choose accordingly also he can change his profile for updating credentials and can also delete his account.

Delivery Guy:

The delivery boy will have same registration as customer but by choosing role accordingly he will get register as the delivery boy.

3. Tiffin Addition

This functionality is the core of admin role. As admin will open the add menu. He will be forwarded to the page which will have tiffin name tiffin image tiffin description and the price of that tiffin the tiffin image can be uploaded via his local machine. After setting the price on clicking the add tiffin button the tiffin is added to database and ready for customer to order.

4. Pathway of Tiffin Order

Whenever the customer will sign in he will get to know the menu list when he choose particular menu he will have to fill the number of days for which he will required after doing this he has to click on order now he will automatically redirected to the payment gateway where he will choose the payment option as payment is done he will again redirected to the main page . now this tiffin is added in order list column with the unprepared status. Whenever the order will prepared admin will update the status and assign the delivery boy now delivery boy will have address on which he have to deliver the order when the package reaches the customer the delivery boys will update the status to delivered by doing this Admin will get to know that order is delivered perfectly.

NON-FUNCTIONAL REQUIREMENTS

1. Interface

Go to Appendix B for user interfaces

2. Performance

- Number of Concurrent Users:**

ARS shall be able to handle at least 1000 transactions/inquiries per second

- Booking of Tickets:**

The system is susceptible to any temporary server failure since it uses the strong feature of Struts 2 and Hibernate. Hence the examination will be continued even if the sever gets disconnected in between the examination.

3. Constraint

ARS shall be able to handle at least 1000 transactions/inquiries per second

4. Other Requirements:

- Hardware Interfaces**

The SPMS is expected to function on Intel PIII 900 MHz Processor equivalent or above, 128 MB RAM, 20 GB HDD.

§ Software Interfaces

The SPMS shall work on MS Windows operating systems family (MS Windows 98, MS Windows NT Workstation, MS Windows 2000, MS Windows XP). It configures to work with Oracle database. This System works on Apache Tomcat server. It uses browser IE 5.0 & above. It uses IIS 5.0 server.

3. DESIGN

3. 1.Database Design

The following table structures depict the database design.

Table1: User Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
user_id	int	4	0
aadhar_no	Varchar2	255	1
email	Varchar2	255	0
password	Varchar2	255	1
phone	Varchar2	255	1
role	Varchar2	255	1
user_name	Varchar2	255	1

Table2 : User Address Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
address_id	int	4	0
address_line1	Varchar2	255	1
user_id	int	4	1
location_id	int	4	1

Table 3 :Daywise Order Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
do_id	int	4	0
date	date	8	1
requirement	int	4	1
status	Varchar2	255	1
delivery_boy_id	int	4	1
order_id	int	4	1

Table 4: Orders Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
OrderID	int	4	0
UserID	int	6	0

StartDate	date	6	1
EndDate	date	6	1
TotalDays	int	3	1
TotalAmount	int	3	1
TiffinID	int	4	0

Table 5: Payment Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
transaction_id	Int	4	0
payment_type	Varchar2	50	0
Total_payment	Date	6	1
Payment_status	Date	6	1
Payment_time	TimeStamp	3	1

Table 6 : Delivery Address:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
location_id	int	4	0
delivery_area	Varchar2	255	1
city	Varchar2	255	1

pincode	int	6	1
---------	-----	---	---

Table 7: Tiffin Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
tiffin_id	int	4	0
tiffin_name	Varchar2	255	1
tiffin_image	blob	6	1
tiffin_price	int	6	1
description	Varchar2	500	1

E-R Diagram,Dataflow diagram and Class Diagram:

Go to Appendix A

4. CODING STANDARDS IMPLEMENTED

Naming and Capitalization

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e., capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

Identifier	Case	Examples	Additional Notes
Class	Pascal	Person, BankVault, SMSMessage, Dept	Class names should be based on "objects" or "real things" and should generally be nouns . No ‘_’ signs allowed. Do not use type prefixes like 'C' for class.
Method	Camel	getDetails ,	Methods should use verbs or verb phrases.
Parameter	Camel	personName, bankCode	Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.
Interface	Pascal with "I" prefix	Disposable	Do not use the ‘_’ sign
Property	Pascal	ForeColor, BackColor	Use a noun or noun phrase to name properties.
Associated private member variable	_camelCase	_foreColor, _backColor	Use underscore camel casing for the private member variables

Exception Class	Pascal with "Exception" suffix	WebException,
-----------------	--------------------------------	---------------

Comments

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or // with one space.
- Begin the comment text with an uppercase letter.
- End the comment with a period.
- Explain the code; do not repeat it.

5. TEST REPORT

Another group called Linux did the testing and the report of the testing is given hereunder.

GENERAL TESTING:

SR-NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE
1	Register Page	Redirected to Next page	OK	Nothing
2	Login Page	Pop-up will come	Ok	Please enter username and password again.
3	Reset login	Only user's password will be reset	Ok	Nothing
4	All tiffin details	Gives all tiffin details	Ok	Nothing
5	Add Delivery Address	All the fields should be filled for submission	Ok	Nothing
6	Checking login or not	User is logged in or not	Ok	Nothing
7	Order the tiffin	Add information according to the start date and end date of tiffin	Ok	Nothing
9	Add information in orders table	Save this all data into booking table	Ok	Nothing
10	Transaction	On back it should be reverted to previous page	Ok	Nothing

Tiffin Delivery & Management System

11	View transaction done	It shows you all transactions done previously	Ok	Nothing
12	Logout	It will logout from user profile.	Ok	Nothing

Tiffin Delivery & Management System

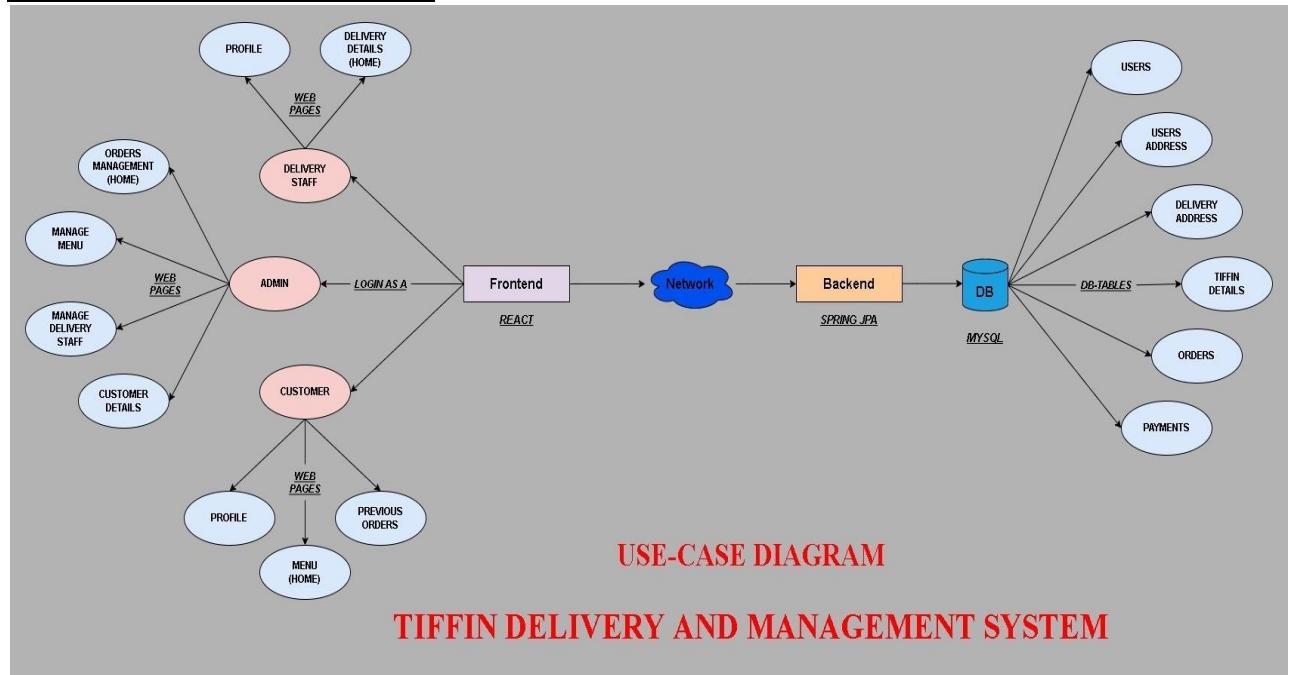
6. PROJECT MANAGEMENT RELATED STATISTICS

DATE	WORK PERFORMED	SLC Phase	Additional Notes
OCT 15,2023	Project Allotment and User Requirements Gathering	Feasibility Study	Our team met the client Mr. Nitin Kudale (CEO, SIIT Pune) to know his requirements.
OCT 25,2023	Initial SRS Document Validation And Team Structure Decided	Requirement Analysis (Elicitation)	The initial SRS was presented to the client to understand his requirements better
DEC 16,2023	Designing the use-cases, Class Diagram, Collaboration Diagram, E-R Diagram and User Interfaces	Requirement Analysis & Design Phase	Database Design completed
JAN 13,2024	Business Logic Component Design Started	Design Phase	-----
FEB 06,2024	Coding Phase Started	Coding Phase	70% of Class Library implemented.

FEB 07, 2024	Implementation of Web Application and Window Application Started	Coding Phase	Class Library Development going on.
FEB 08, 2024	OFF	OFF	OFF
FEB 09, 2024	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	--
FEB 10, 2024	After Ensuring Proper Functioning the Required Validations were Implemented	Coding Phase and Unit Testing	Module Integration was done by the Project Manager
FEB 13, 2024	The Project was Tested by the respective Team Leaders and the Project Manager	Testing Phase (Module Testing)	--
FEB 15, 2024	The Project was Submitted to Other Project Leader of Other Project Group for Testing	Testing Phase (Acceptance Testing)	The Project of Other Team was Taken up by the Team for Testing
FEB 17, 2024	The Errors Found were Removed	Debugging	The Project was complete for submission
FEB 20, 2024	Final Submission of Project		

Appendix A

Entity Relationship Diagram

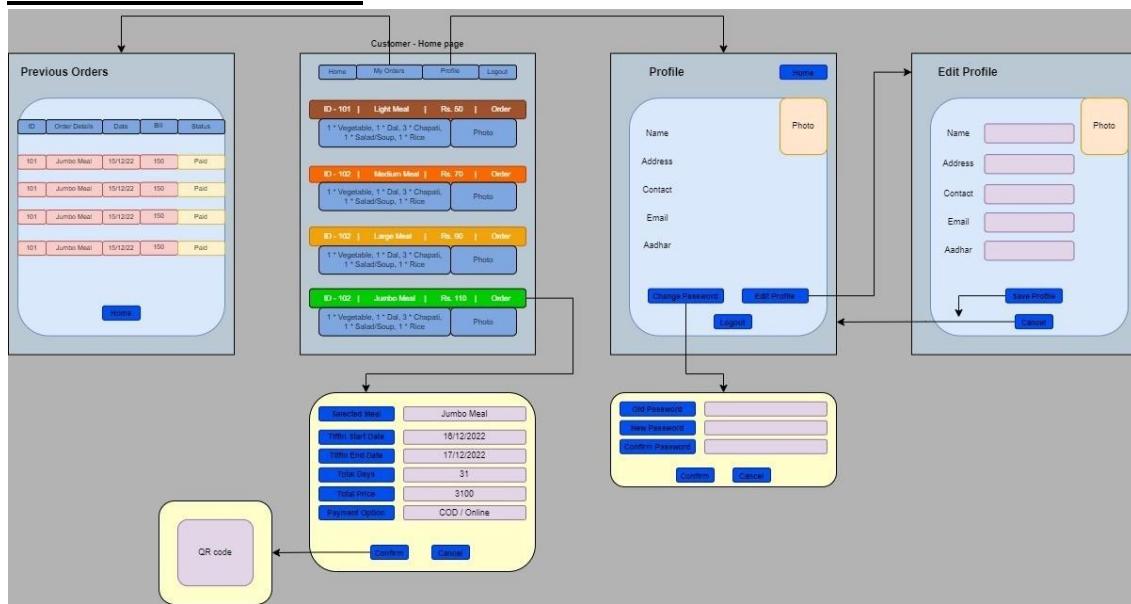


Data Flow Diagram:

Home Page :

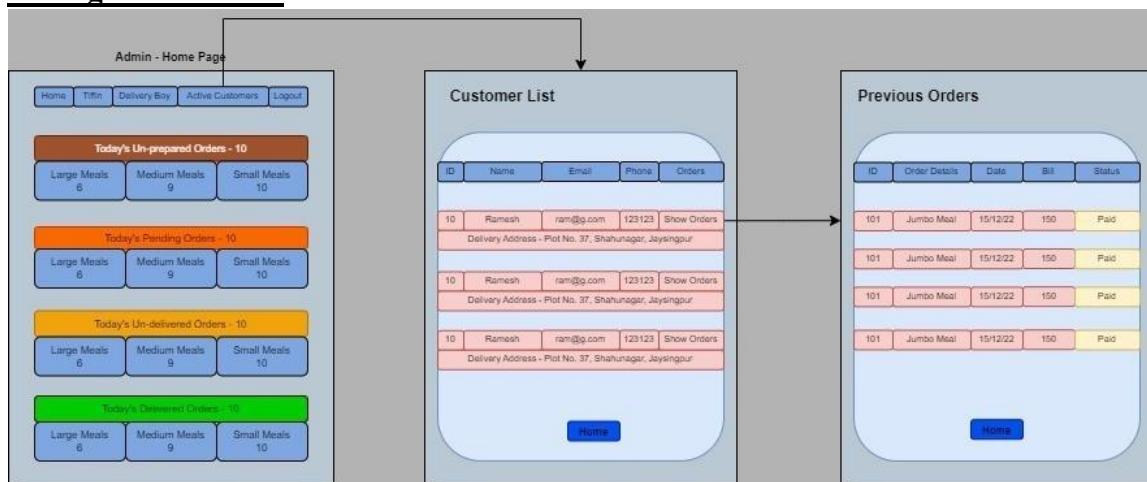


Customer Dashboard:

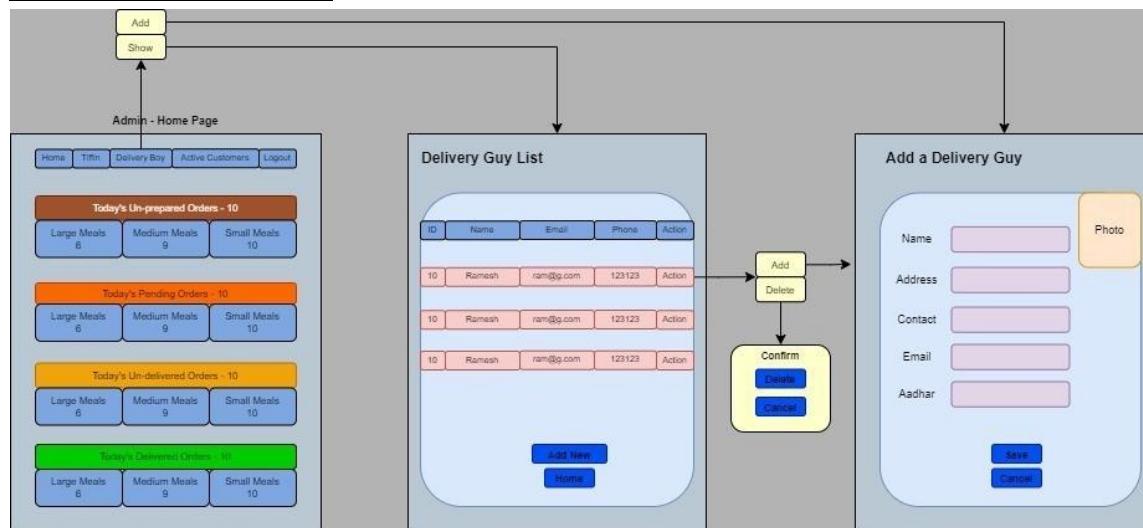


Admin Dashboard:

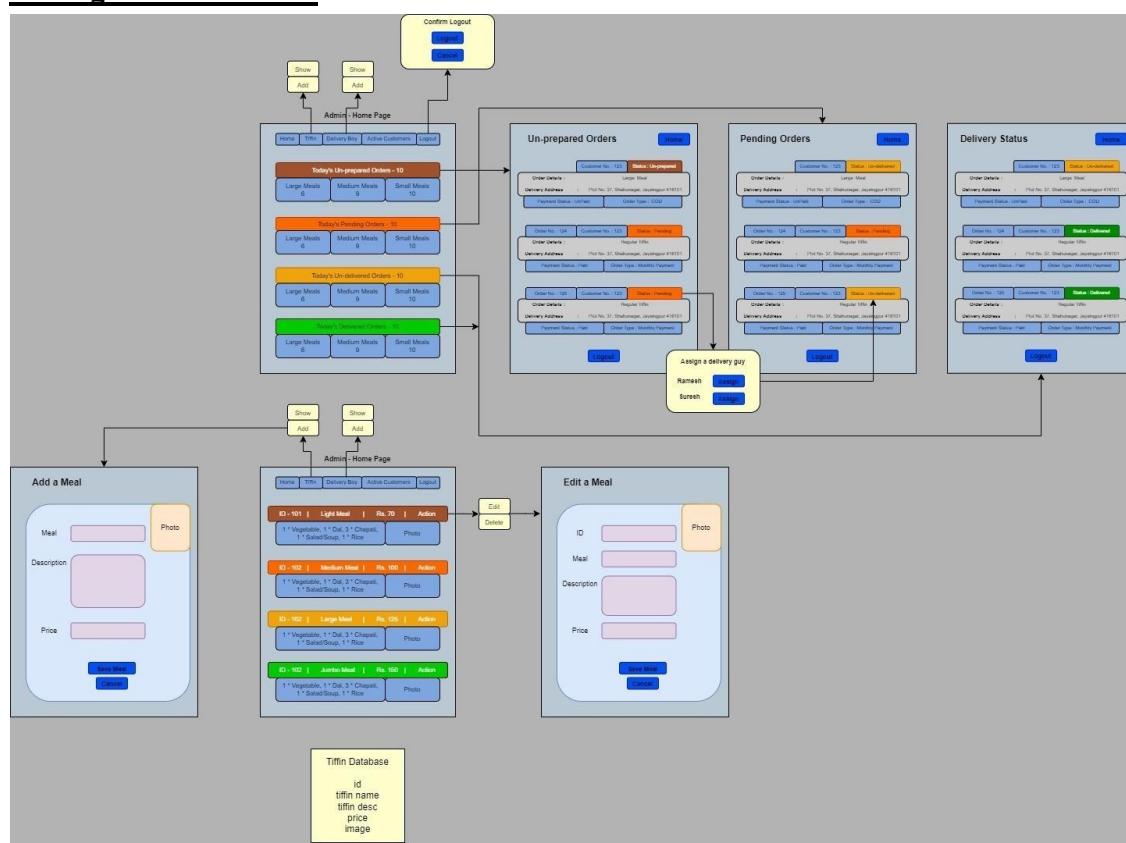
Manage Customers:



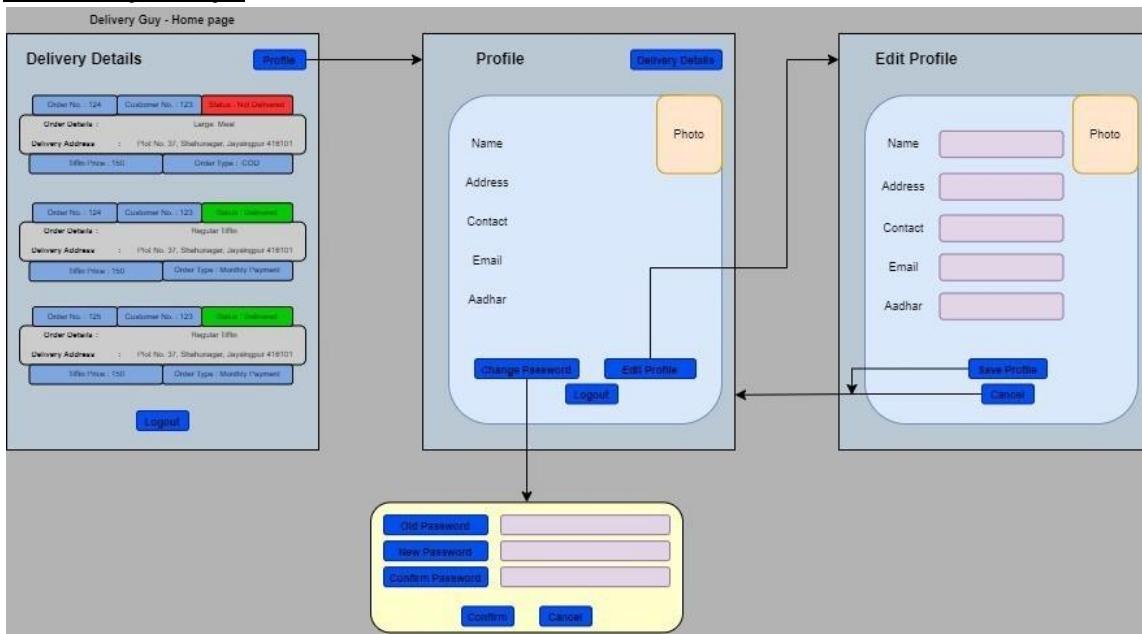
Manage Delivery Guys:



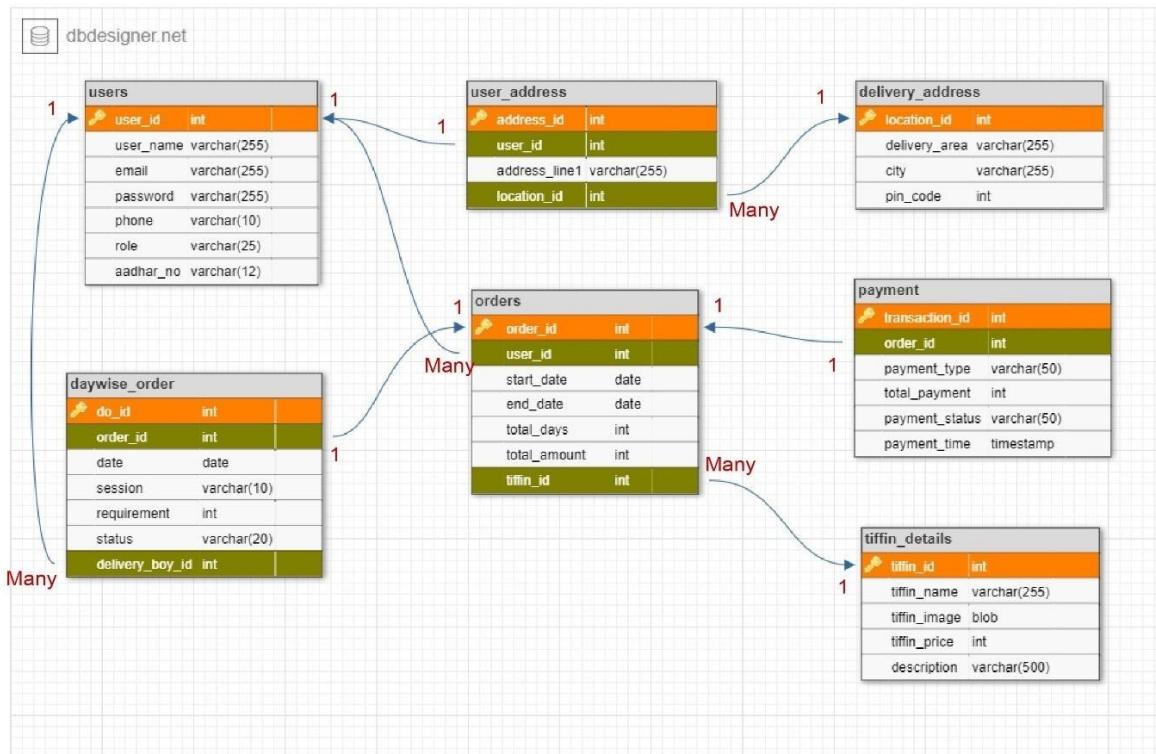
Manage Tiffin Details:



Delivery Guy:

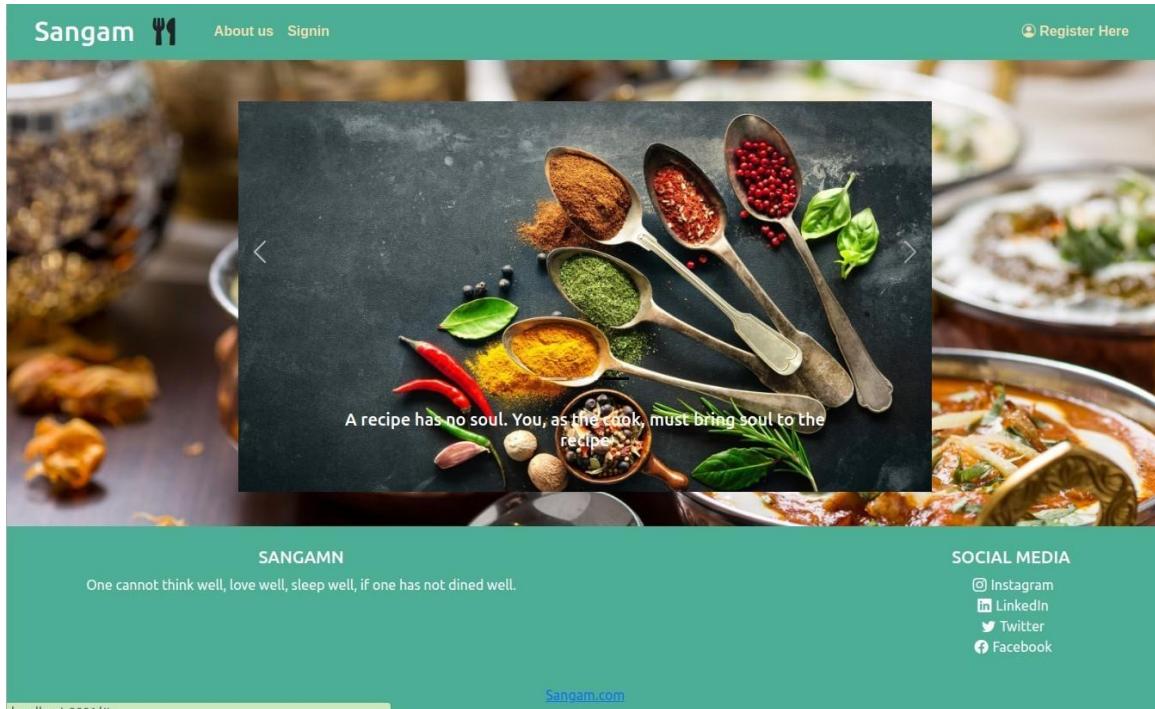


Class Diagram

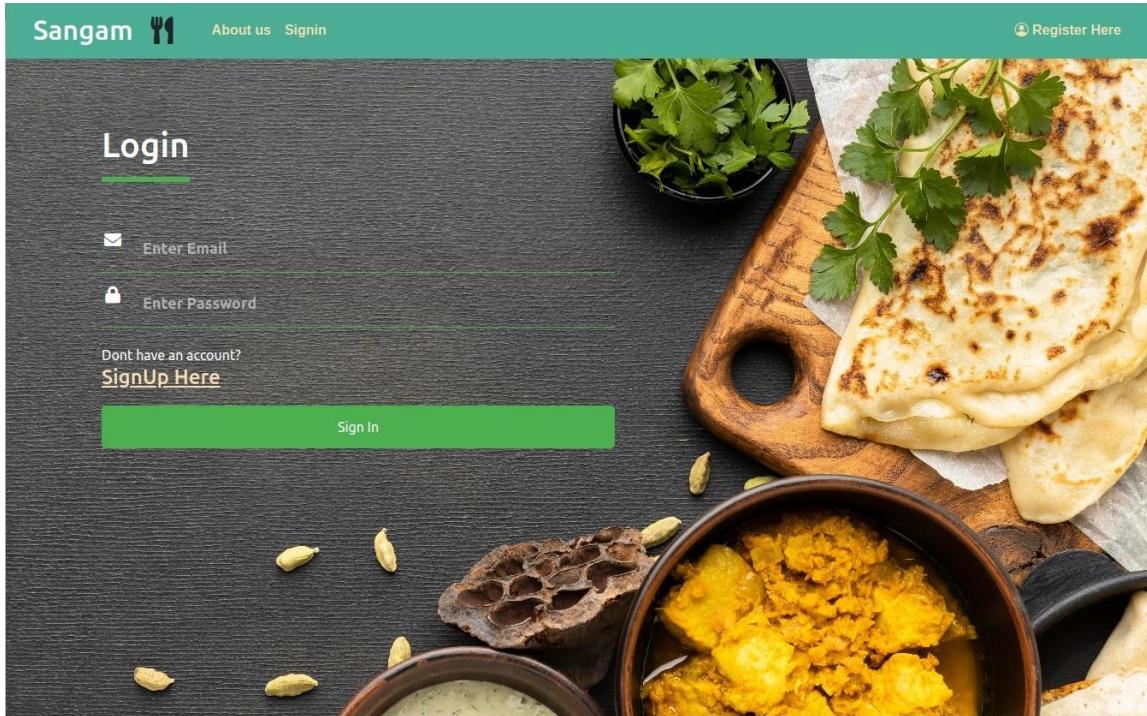


Appendix B

Homepage:



Login Page:



**Tiffin
Management:**

Registration Page:

Sangam

About us Signin Register Here

Sign Up

Enter name

Enter Email

Enter Password

Select Role

Enter Phone no

Enter Adhar No.

Already have an account?
[Sign In Here](#)

[Sign Up](#)

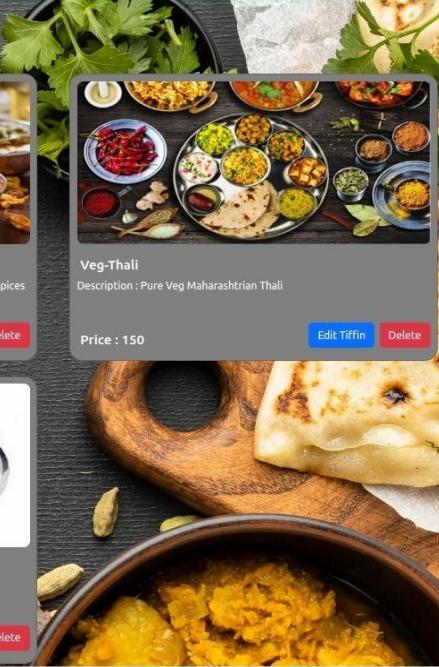
localhost:3001/signup

Admin Panel [Delivery boy management](#) [Customers List](#) [Tiffin Management](#) [Delivery Address Management](#) [Logout](#)

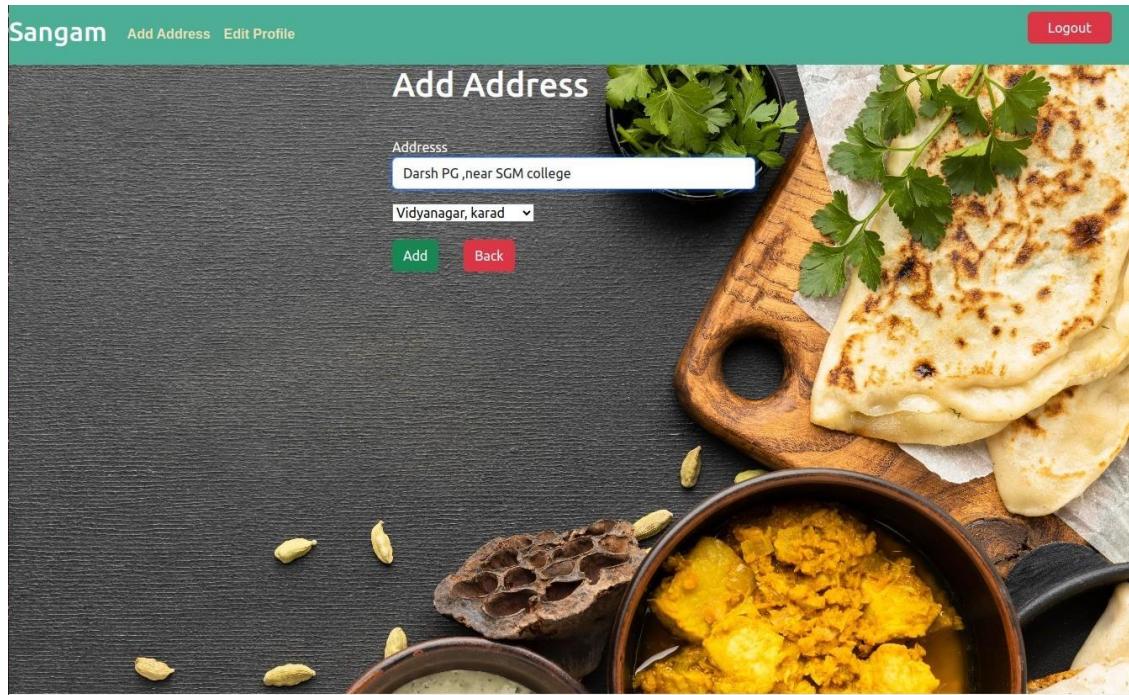
Tiffins List

[Add Tiffin](#)

Tiffin Name	Description	Price	Action
Poli-Bhaji	Description : This Tiffin include 2 poli's and one Bhaji	Price : 50	Edit Tiffin Delete
Kaju-Curry	Description : Roasted cashew nuts cooked in a tomato, onion, and spices .is a delicious restaurant style Vegetarian Punjabi Curry	Price : 200	Edit Tiffin Delete
Veg-Thali	Description : Pure Veg Maharashtrian Thali	Price : 150	Edit Tiffin Delete
Panner-Tadka	Description : 3 Roti , Panner Masala	Price : 150	Edit Tiffin Delete
Regular	Description : Chapati , Rice .../	Price : 70	Edit Tiffin Delete



Add Address User:



User Profile Edit:

Sangam Add Address Edit Profile Logout

User ID	5
Username	nidhi
Email Address	nidhi@gmail.com
Phone	1234567887
Role	ROLE_USER
Aadhar Number	123456789987

Edit User Back

Sangam Add Address Edit Profile Logout

User ID	5
Username	nidhi
Email Address	nidhi@gmail.com
Phone	1234567887
Role	ROLE_USER
Aadhar Number	123456789987

Save User

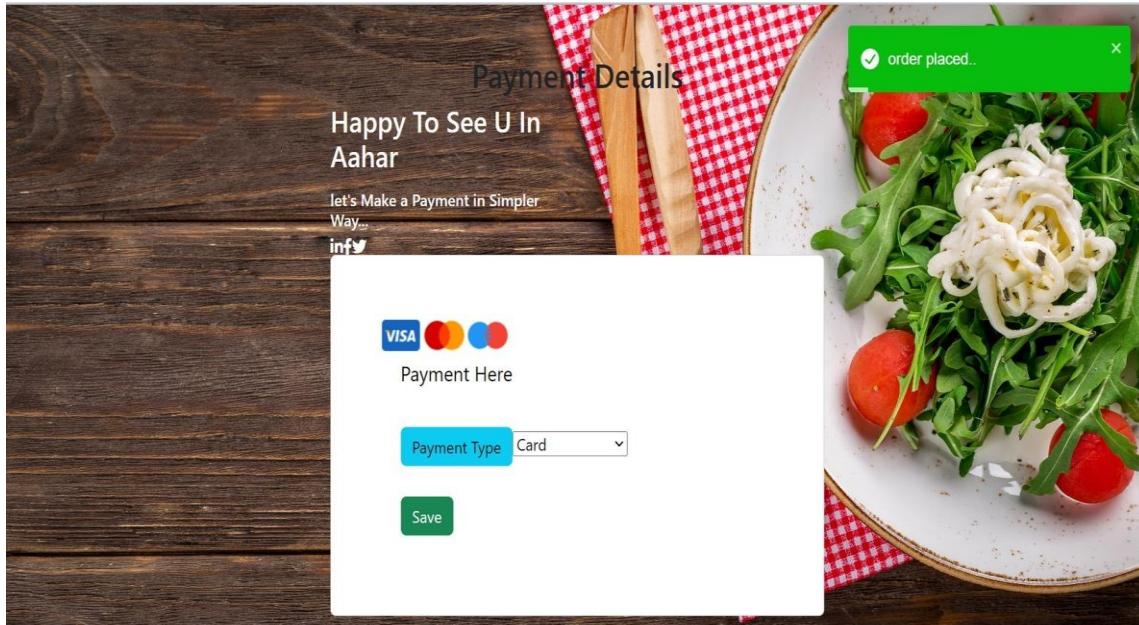
Order Details :

Order Details

Start Date	12/09/2023
End Date	12/10/2023
Total Days	30
Total Price	3000

Add Cancel

Payment Gateway:



Management of Tiffin:

Admin Panel [Delivery boy management](#) [Customers List](#) [Tiffin Management](#) [Delivery Address Management](#) [Logout](#)

Tiffins List

	Poli-Bhaji Description : This Tiffin include 2 poli's and one Bhaji Price : 50		Kaju-Curry Description : Roasted cashew nuts cooked in a tomato, onion, and spices .Is a delicious restaurant style Vegetarian Punjabi Curry Price : 200
	Veg-Thali Description : Pure Veg Maharashtrian Thali Price : 150		Panner-Tadka Description : 3 Roti , Panner Masala Price : 150
	Regular Description : Chapati , Rice .../ Price : 70		Edit Tiffin Delete
Edit Tiffin	Delete	Edit Tiffin	Delete

Add New Tiffin:

Admin Panel [Delivery boy management](#) [Customers List](#) [Tiffin Management](#) [Delivery Address Management](#) [Logout](#)

Add Tiffin

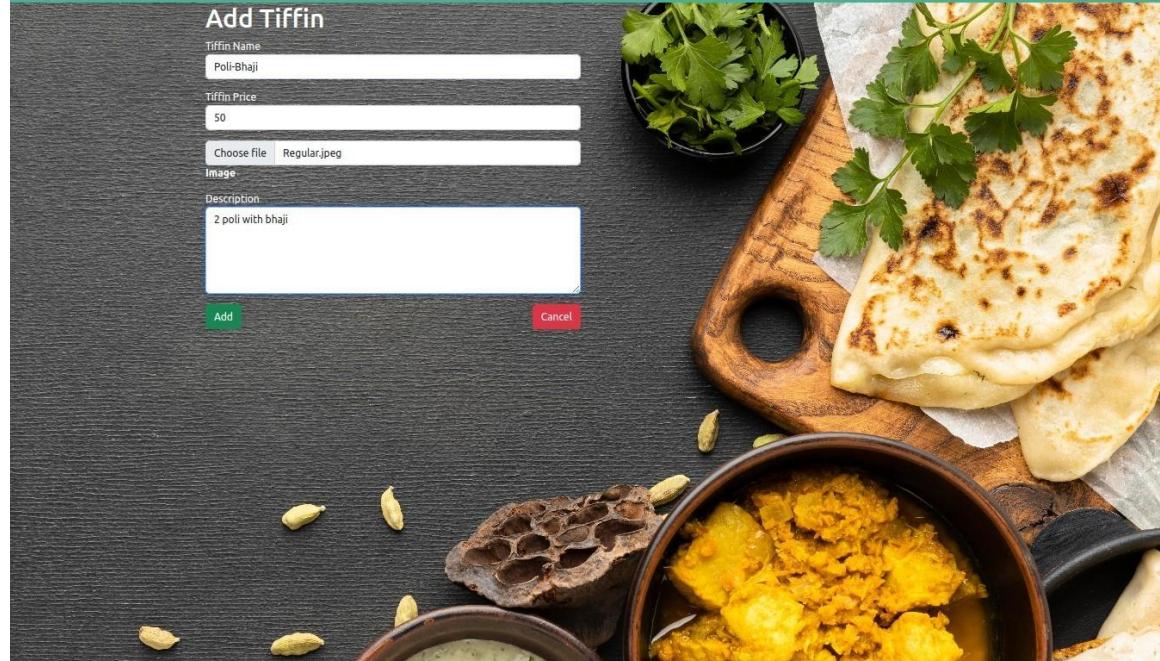
Tiffin Name:

Tiffin Price:

Image: Regular.jpeg

Description:

[Add](#) [Cancel](#)



Add New Delivery Area:

Admin Panel [Delivery boy management](#) [Customers List](#) [Tiffin Management](#) [Delivery Address Management](#) [Logout](#)

[Delivery Address List](#)

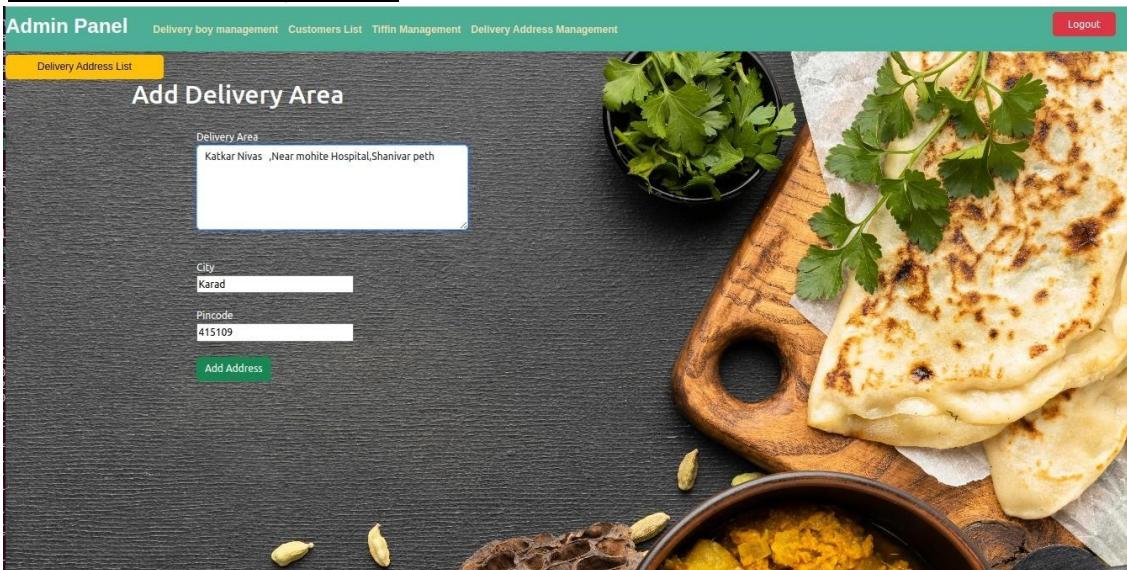
Add Delivery Area

Delivery Area:

City:

Pincode:

[Add Address](#)



Delivery Address List:

Admin Panel Delivery boy management Customers List Tiffin Management Delivery Address Management Save your password Logout

Delivery Addresses

LocationId	DeliveryArea	City	Pincode
33	Vidyanagar	karad	405106
111	shanivar peth	karad	415109
222	somvar peth	karad	415102
223	Anand Vihar , Sadashivnagar	Karad	412908
224	Katkar Nivas ,Near mohite Hospital,Shanivar peth	Karad	415109

Users List:

Active Customer List:

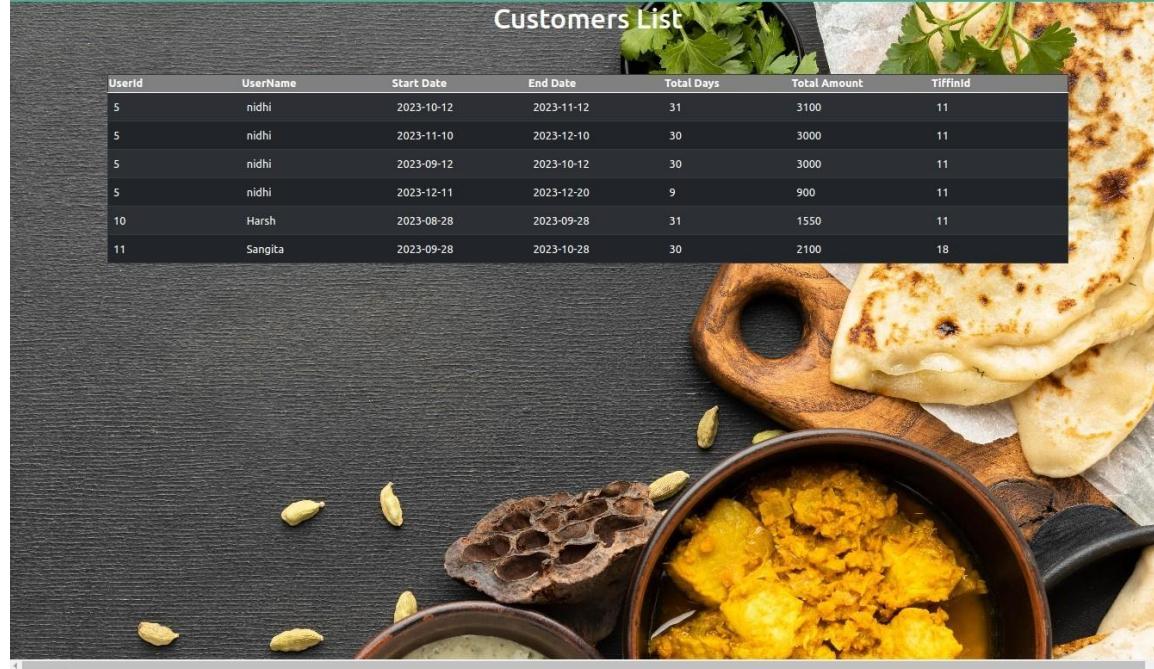
Admin Panel Delivery boy management Customers List Tiffin Management Delivery Address Management Logout

Customers List

UserId	UserName	Email	Phone	Aadhar	Delete
5	nidhi	nidhi@gmail.com	1234567887	123456789987	<button>Delete</button>
10	Harsh	harsh007@gmail.com	9096593552	1234567	<button>Delete</button>
11	Sangita	sangitaSantosh@gmail.com	9552440506	909876	<button>Delete</button>

Admin Panel [Delivery boy management](#) [Customers List](#) [Tiffin Management](#) [Delivery Address Management](#) [Logout](#)

Customers List



Userid	UserName	Start Date	End Date	Total Days	Total Amount	Tiffinid
S	nidhi	2023-10-12	2023-11-12	31	3100	11
S	nidhi	2023-11-10	2023-12-10	30	3000	11
S	nidhi	2023-09-12	2023-10-12	30	3000	11
S	nidhi	2023-12-11	2023-12-20	9	900	11
10	Harsh	2023-08-28	2023-09-28	31	1550	11
11	Sangita	2023-09-28	2023-10-28	30	2100	18

Delivery Guy Management:

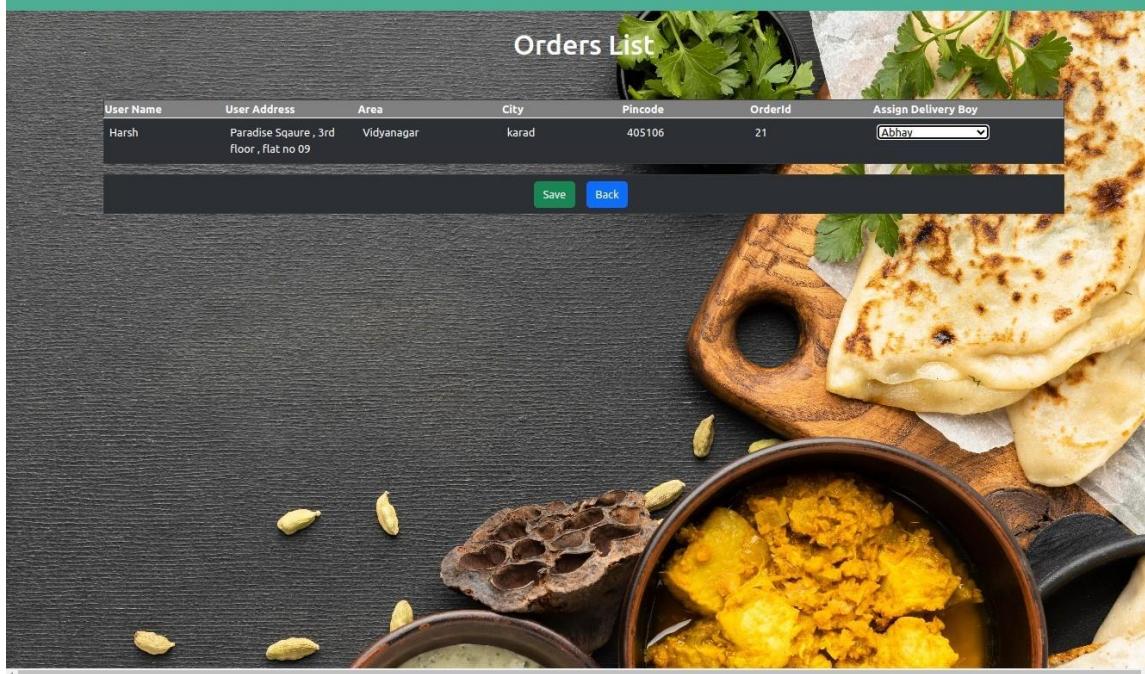
Assign Delivery Guy:

Admin Panel [Delivery boy management](#) [Customers List](#) [Tiffin Management](#) [Delivery Address Management](#) [Logout](#)

Orders List

User Name	User Address	Area	City	Pincode	Orderid	Assign Delivery Boy
Harsh	Paradise Sqaure , 3rd floor , flat no 09	Vidyanagar	karad	405106	21	<input type="text" value="Abhay"/>

[Save](#) [Back](#)



Dispatched Orders:

Delivery Boy Home

Orders List

User Name	User address	Area	City	Pincode	OrderId	Make it Deliver
nidhi	anuda chembers , 2nd floor	shanivar peth	karad	415109	18	<button>Delivered Orders</button>
Harsh	Paradise Sqaure , 3rd floor , flat no 09	Vidyanagar	karad	405106	19	<button>Delivered Orders</button>
Sangita	Kalash Paradise , Vidyanagar,Opposite to SGM college	Vidyanagar	karad	405106	20	<button>Delivered Orders</button>

Admin Panel

Delivery boy management Customers List Tiffin Management Delivery Address Management

Pending Orders

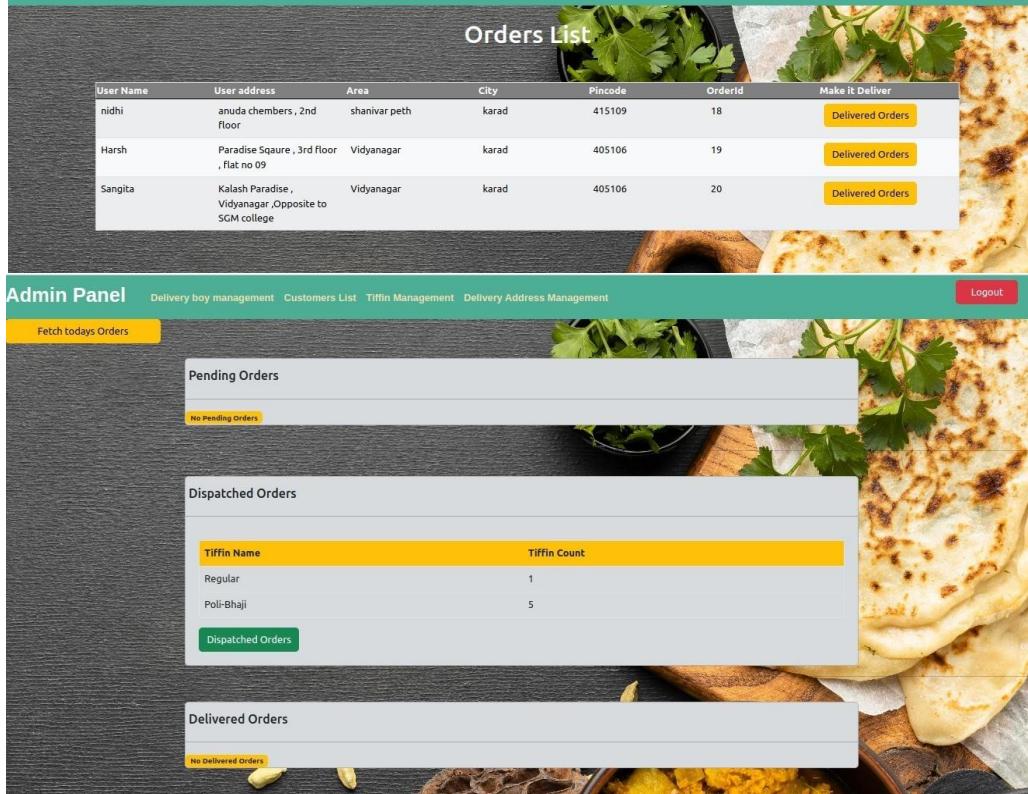
No Pending Orders

Dispatched Orders

Tiffin Name	Tiffin Count
Regular	1
Poli-Bhaji	5

Delivered Orders

No Delivered Orders



Delivering Tiffin Orders (Delivery Guy):
Delivered Orders:

Admin Panel Delivery boy management Customers List Tiffin Management Delivery Address Management Logout

Fetch todays Orders

Pending Orders

No Pending Orders

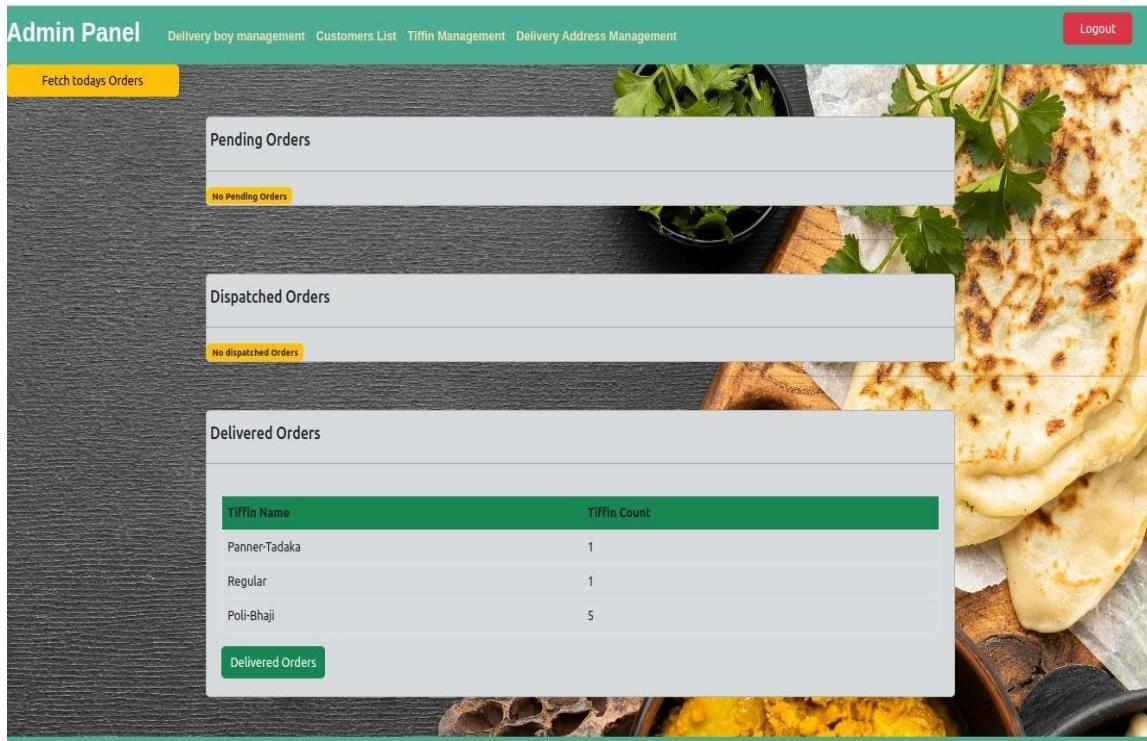
Dispatched Orders

No Dispatched Orders

Delivered Orders

Tiffin Name	Tiffin Count
Panner-Tadka	1
Regular	1
Poli-Bhaji	5

Delivered Orders



7. REFERENCES:

<http://www.google.com> <https://anvitiffin.rekart.io/>

home <https://tiffindaily.com/> <http://www.w3.org>

<http:// www.wikipedia.org>

<http://minkfoodiee.com/foodiee/tiffin-services>

<https://meshink.xyz/tiffin-management-system.php>