



MAHARASHTRA EDUCATION SOCIETY'S  
(SINCE 1860)

## INSTITUTE OF MANAGEMENT & CAREER COURSES (IMCC) (AUTONOMOUS)

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Date: 21/11/2025

## CERTIFICATE

This is to certify that the Project entitled "**Daily Meal Planning and Subscription Web Application**" is completed by "**Mrudul J. Kuchankar**" of S.Y. M.C.A. Semester III for the Academic Year 2025-26 at MES' Institute of Management & Career Courses (IMCC), Pune - 411038.

To the best of our knowledge, this is an original study done by the said student and important sources used by him/her have been duly acknowledged in this report.

The report is submitted as a part of course ITP31 Mini Project for the Academic Year 2025-26 as per the rules and guidelines prescribed by the institute.

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## **Daily Meal Planning and Subscription Web Application**

This is a dynamic web-based platform that connects users with local tiffin provider for a specific area. It simplifies for people to subscribe to healthy home-style meals. Customers can choose different **meal plan**, select their **meal type** and also decide between **veg and non-veg** options.

### **Users of the System:**

#### **1. Customers (End Users):**

Customers are the end-users who subscribe to the tiffin service. They can register and log in to the system, select suitable meal plans based on their preferences, choose food type (vegetarian or non-vegetarian), and specify whether they want lunch, dinner, or both. Customers also have the flexibility to skip meals on certain days, order extra tiffin whenever required, or cancel their subscriptions, and track activities.

#### **2. Admin (Service Provider):**

The admin is the primary controller of the entire tiffin service system. The admin can view and manage all registered users, maintain meal plans and pricing, track customer subscriptions (active, upcoming, completed, or cancelled), and monitor requests such as skipped meals and extra orders. The admin is also responsible for handling payments, refunds, and ensuring smooth operation of the service.

#### **3. Guest (Unregistered Visitor):**

Anyone visiting the website without creating an account. Their access is limited to general information about the service.

### **Modules**

#### **Admin Module:**

- Create/manage meal plans (Trial, Weekly, Monthly, Quarterly)
- Approve or monitor user subscriptions
- View skipped/extra tiffin requests from users
- Manage pricing for meal
- Update daily meal for Lunch and Dinner
- Refund amount to the skipped meals requests

#### **User Module:**

- Register/login to the platform
- Choose a subscription.
- View meal plan details and cost
- Make payments
- Order extra tiffin for any day
- Request to skip a tiffin before cutoff time
- Can view plan summary

#### **Subscription Management Module:**

- Users can choose from available meal plans (Daily, Weekly, Monthly, Quarterly).
- Automatically calculates the end date of the subscription based on the selected plan type.
- Allows selection of lunch, dinner, or both; and veg or non-veg food type.
- Dynamically tracks the subscription status as upcoming, active, completed, or cancelled.

#### **Payment Module (Dummy Payment):**

- Simulates the payment process for user subscriptions.
- Displays the subscription amount and allows users to “pay” for a plan.

## Technology Stack:

Frontend: HTML, CSS, JavaScript, Bootstrap

Backend: Flask (Python)

Database: MySQL

## Database Tables:

### 1. Users

Field Name	Data Type	Description
user_id (PK)	int (Auto Increment)	Unique User ID
name	varchar	Full Name
email	varchar (Unique)	User email
password	varchar	Hashed Password
phone	varchar	Contact Number
address	varchar	Delivery address

### 2. Meal Plan

Field Name	Data Type	Description
plan_id (PK)	int Primary Key	Plan ID
plan_type	varchar	Trial, Weekly, Monthly, Quaterly
days	int	Number of days (3, 7, 30, 90)
veg price	decimal	Price of Veg meal
non-veg price	decimal	Price of non-veg meal
description	text	Description

### 3. User Subscriptions

Field Name	Data Type	Description
subscription_id (PK)	int (Auto Increment)	Subscription ID
user_id	int	Foreign Key
plan_type	varchar	Trial, Weekly, Monthly, Quartely
start_date	date	Start date of Plan
end_date	date	End date of Plan
meal_type	enum ('Lunch', 'Dinner', 'Both')	Selection of meal time
food_type	enum('veg','nonveg')	Selection of Veg & Non-veg type
amount_paid	Decimal (8,2)	Total amount paid of subscribed plan
subscription_date	timestamp	Subscribed Date
status	enum('upcoming','active','completed','cancelled')	Status

### 4. Daily Meal

<b>Field Name</b>	<b>Data Type</b>	<b>Description</b>
meal_id	int	Meal ID
meal_date	date	Date of meal
meal_type	enum('Lunch','Dinner')	Lunch, Dinner
meal_name	varchar	Food items name
meal_image	varchar	Image
lunch_nonveg_name	varchar	Non-veg meal for lunch
lunch_nonveg_image	varchar	Non-veg meal image
dinner_nonveg_name	varchar	Non-veg meal for dinner
dinner_nonveg_image	varchar	Non-veg meal image

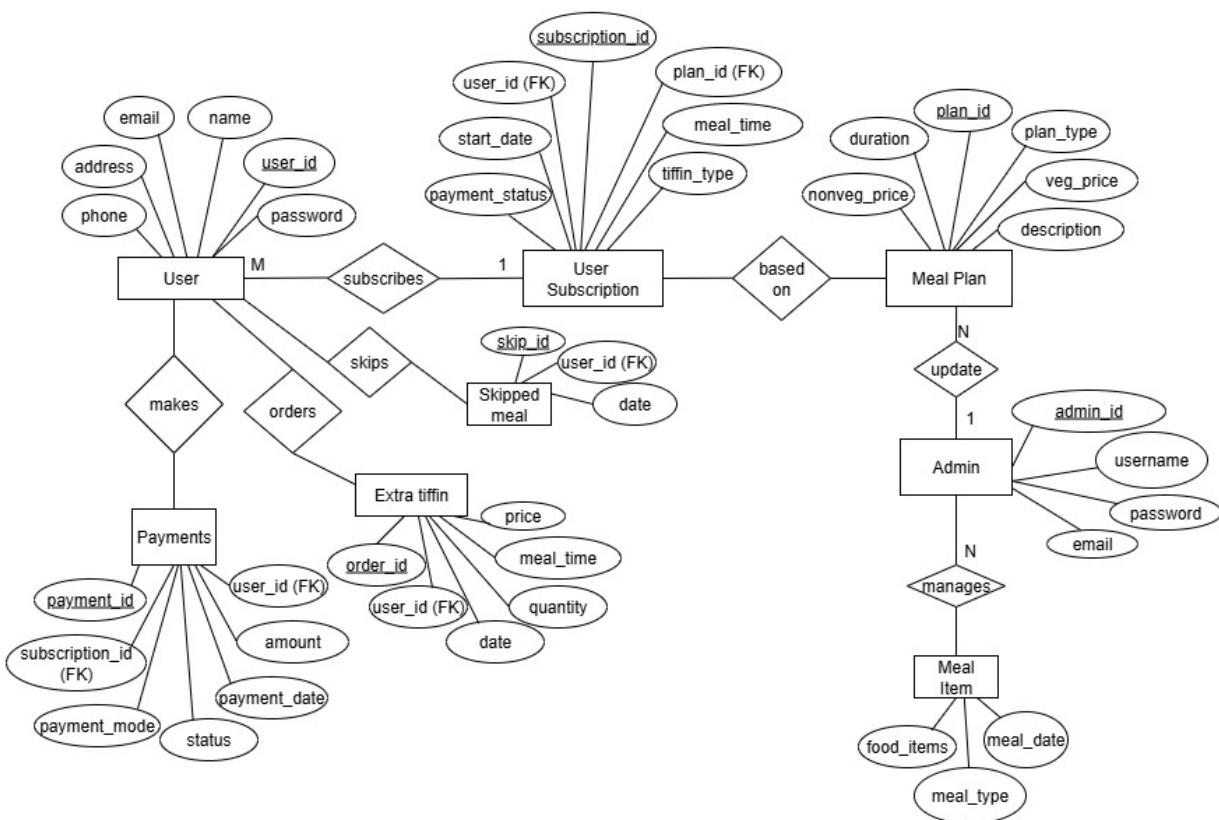
## 5. Skipped Meals

<b>Field Name</b>	<b>Data Type</b>	<b>Description</b>
skip_id	int (Primary Key)	Skipped Meal ID
user_id	int	User ID
subscription_id	int	Subscribed Id
skip_date	date	Date of skipped meal
meal_time	enum('lunch','dinner','both')	Meal Time
refund_amount	decimal (10,2)	Refund amount
refund_status	varchar(50)	Refund status
created_at	timestamp	Created Timestamp

## 6. Extra Tiffins

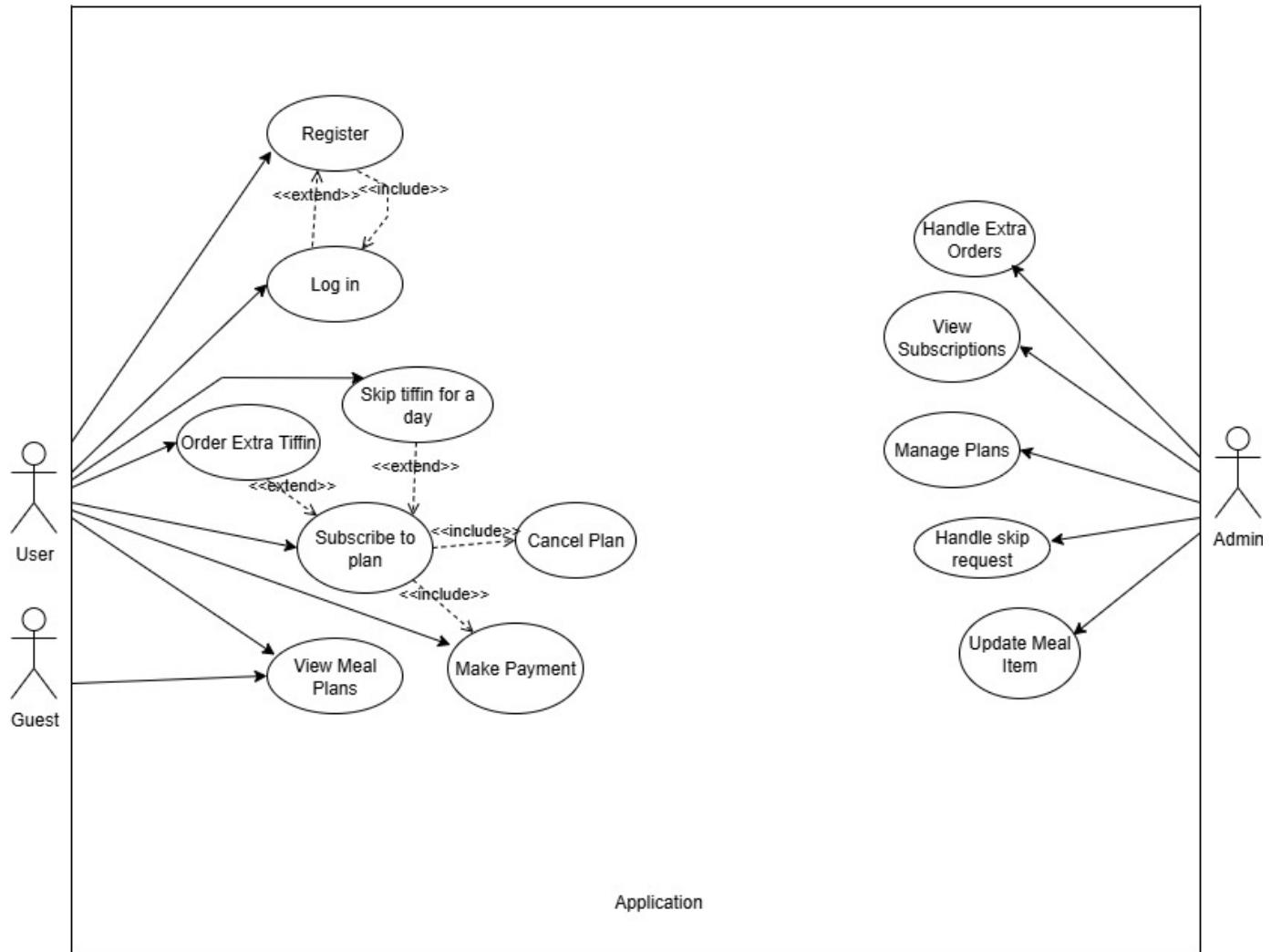
<b>Field Name</b>	<b>Data Type</b>	<b>Description</b>
extra_id	int Primary Key	Extra meal ID
subscription_id	int	Subscribed ID
extra_date	date	Date of ordered meal
meal_type	enum('veg','nonveg')	Veg, Non-veg
quantity	int	Number of extra the meal ordered
total_amount	decimal	Total amount
status	varchar	
created_at	timestamp	Created Timestamp
meal_time	enum('lunch','dinner')	Meal time of extra meal

**ER Diagram:**



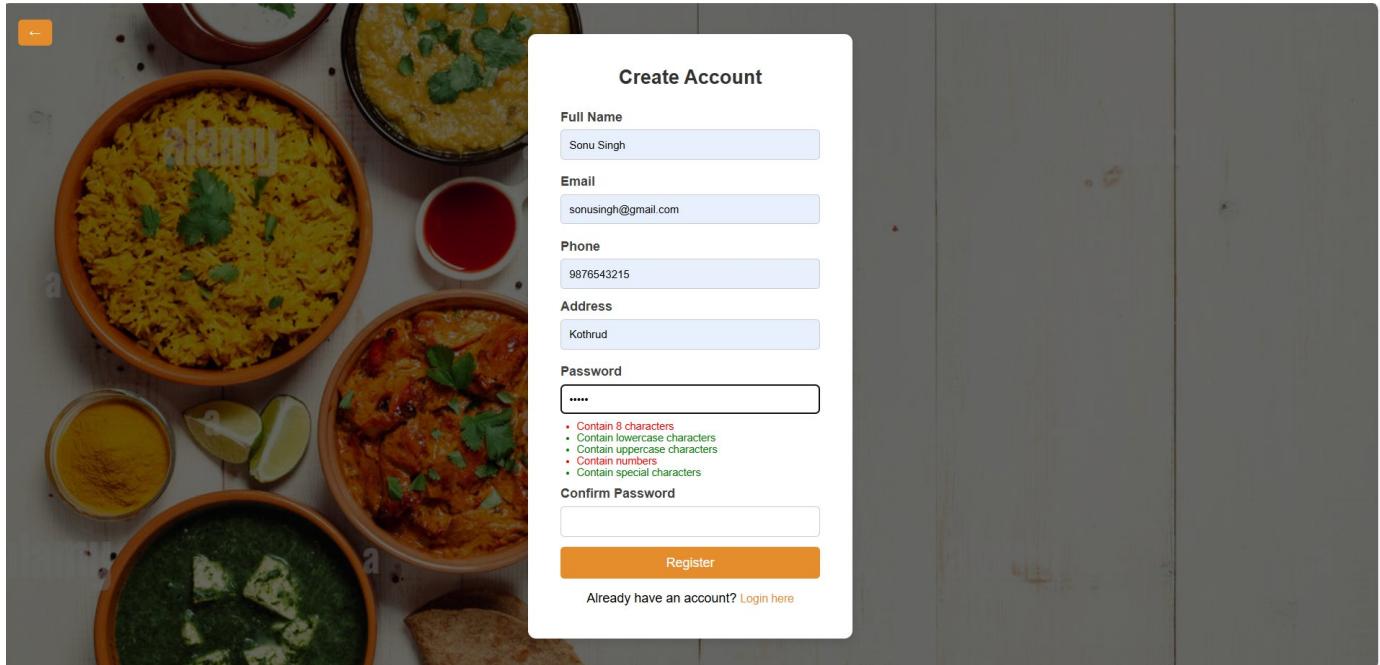
ER Diagram

## Usecase Diagram:



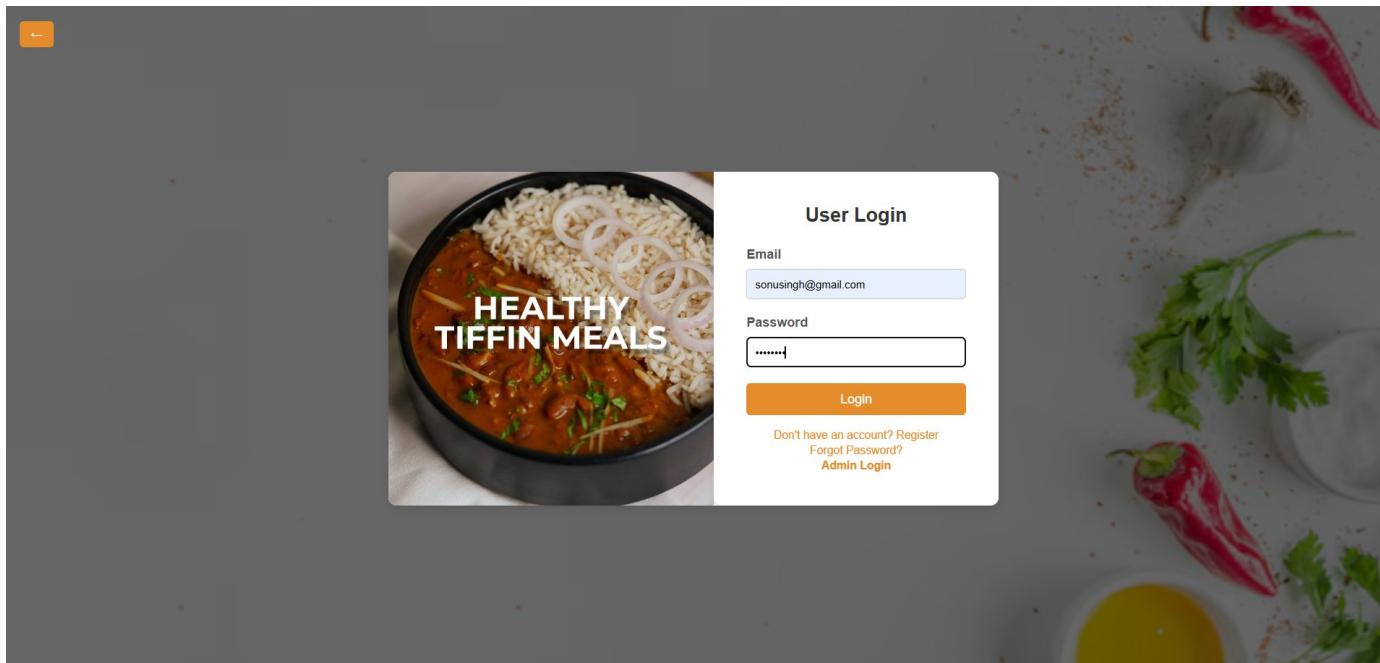
Use Case  
Diagram

Working Demo



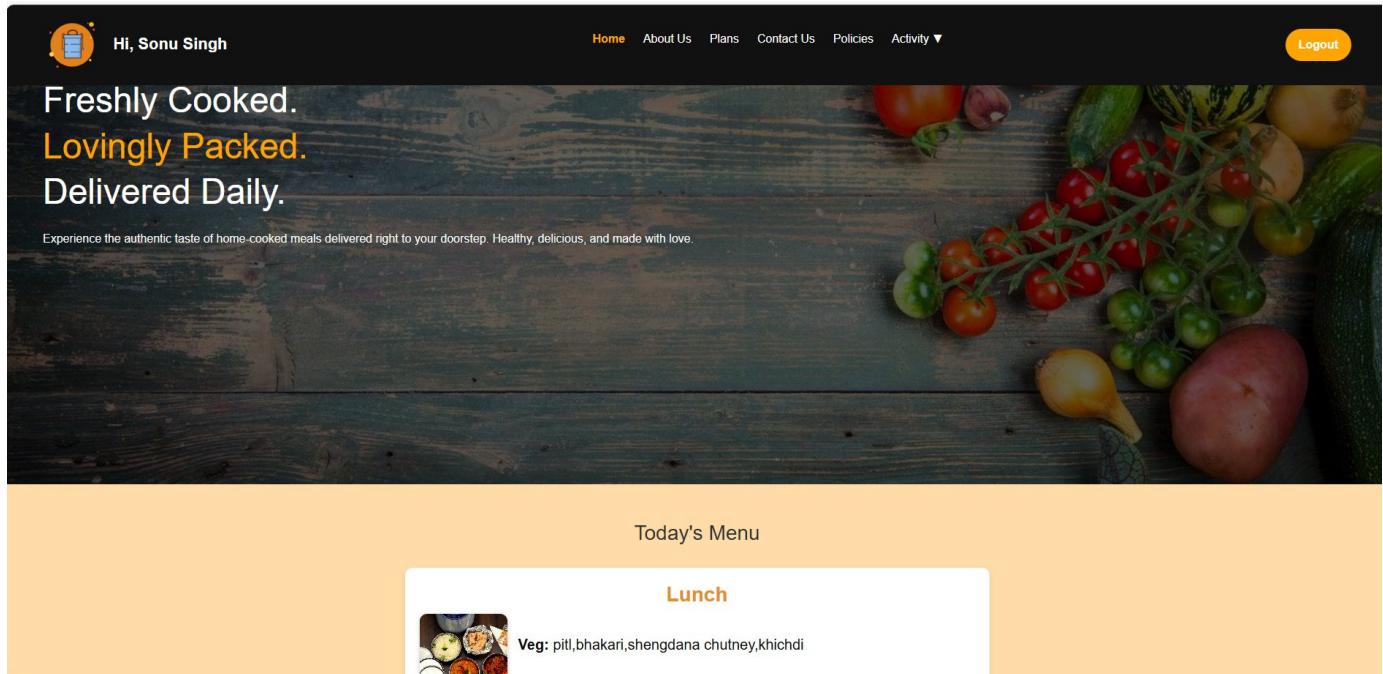
## 1. User Registration Page

- This shows the Create Account form with input fields, live password validation hints, and the registration button.
- The **Register** button becomes functional only after all validations are met.



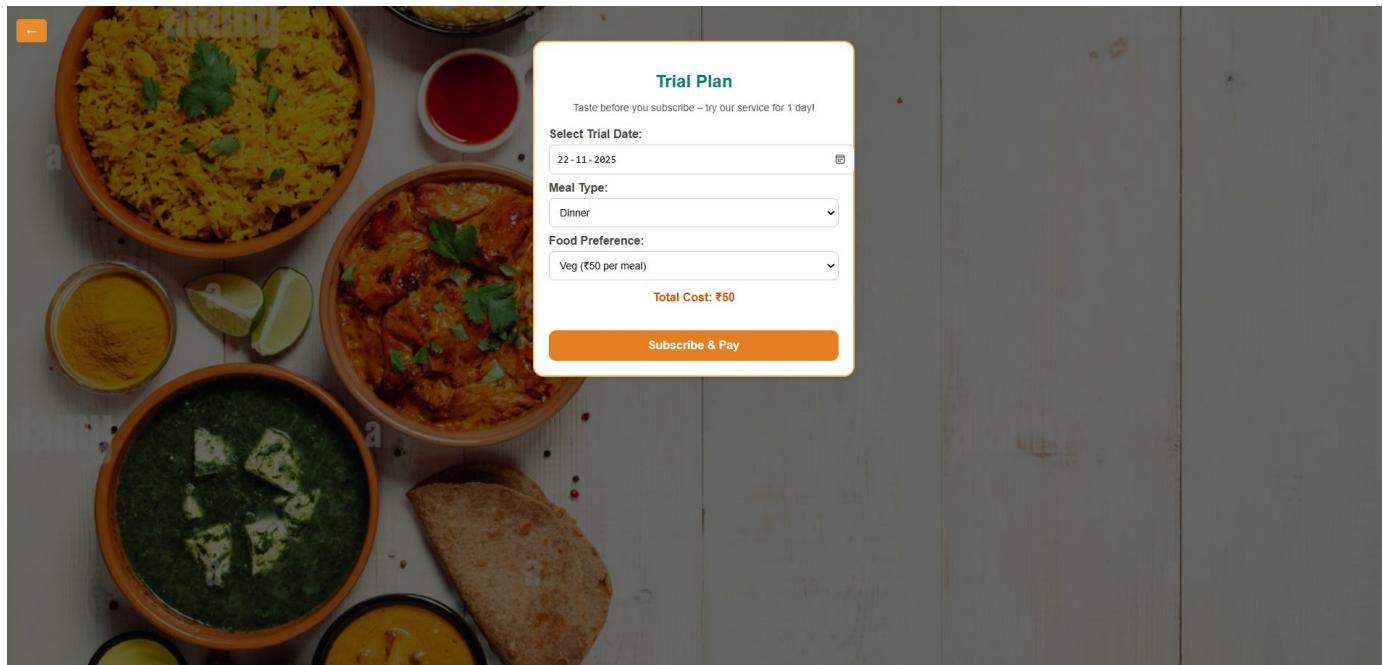
## 2. User Login Page

- The screenshot shows the **User Login Page**, where users enter their registered email and password to access the system.
- It provides quick links for **Register**, **Forgot Password**, and **Admin Login**, ensuring smooth navigation for all user types.



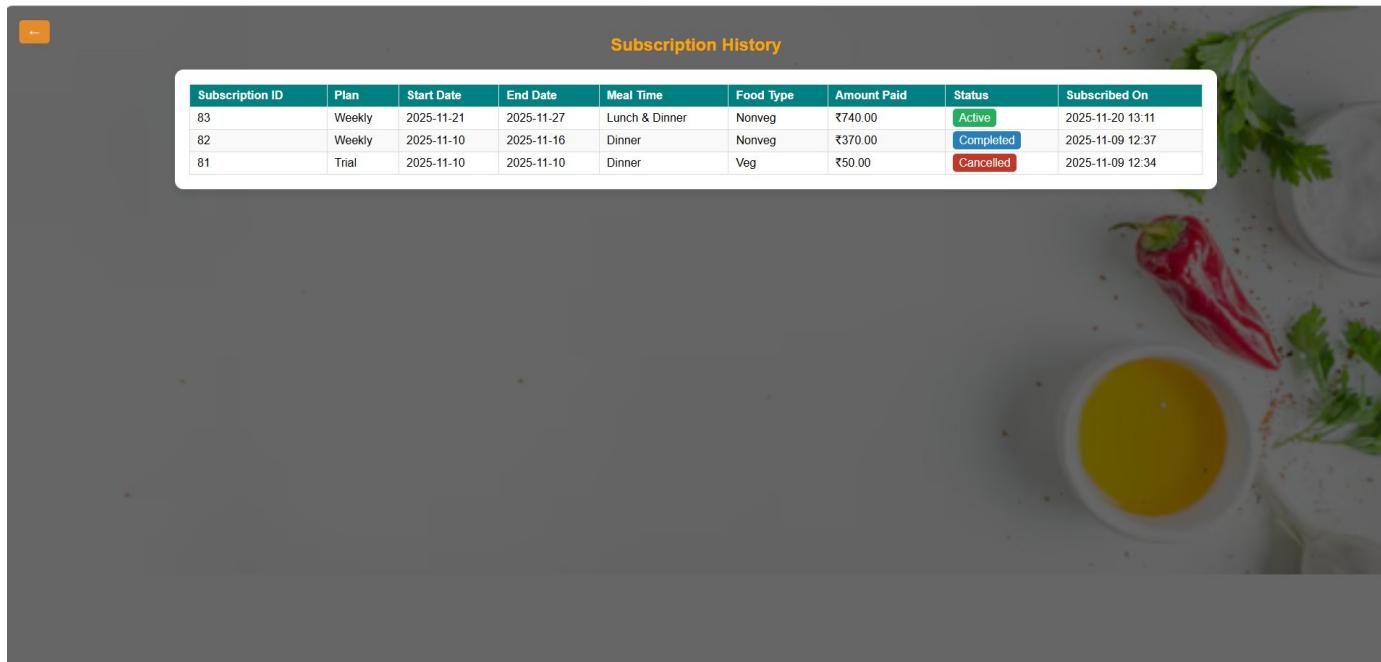
### 3. User Dashboard

- This screen displays the **User Dashboard**, showing a welcome message, navigation menu, and the daily tiffin menu for the user.
- It provides quick access to key sections like **Plans**, **Contact Us**, **Policies**, and **Activity**, along with a logout option for secure session handling.



### 4. Trial Plan Subscription Page

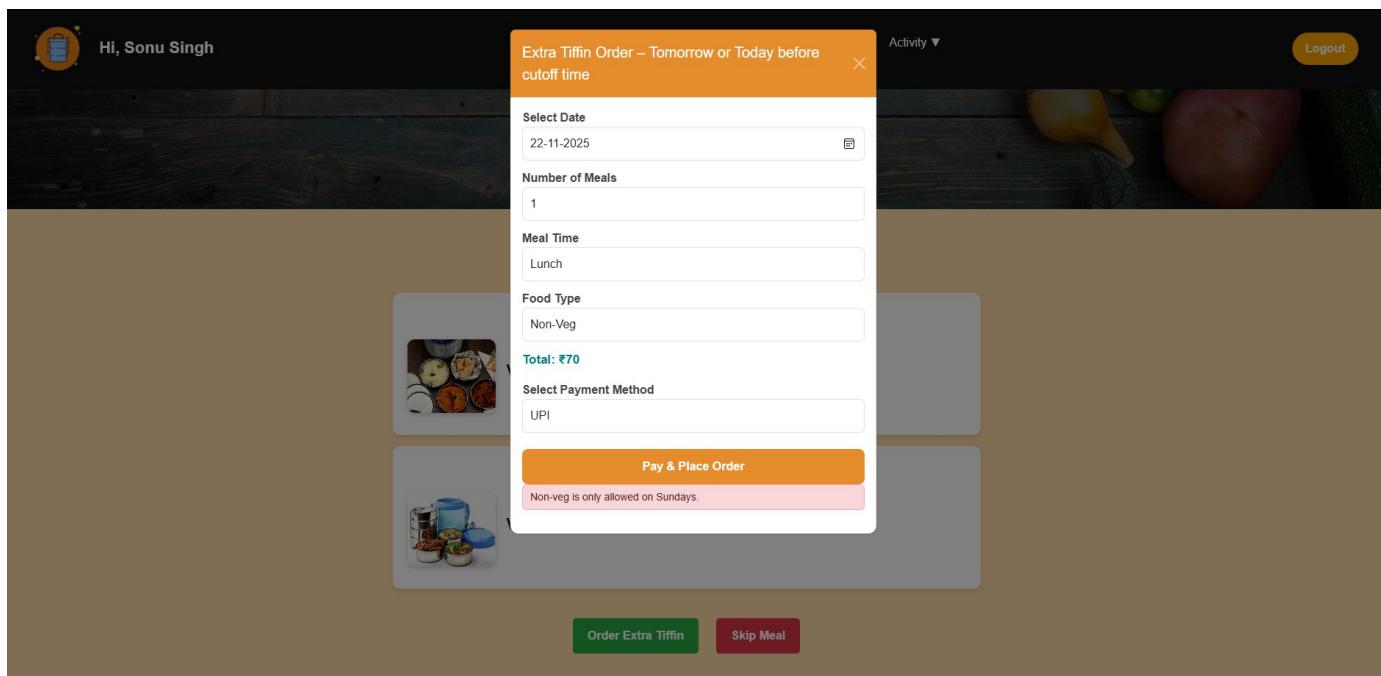
- This screen displays the **Trial Plan Page**, where users can select a date, choose meal type and food preference, and view the total cost for a 1-day trial service.
- It allows users to proceed with the subscription using the **Subscribe & Pay** button, offering a simple and clear trial booking process.



Subscription ID	Plan	Start Date	End Date	Meal Time	Food Type	Amount Paid	Status	Subscribed On
83	Weekly	2025-11-21	2025-11-27	Lunch & Dinner	Nonveg	₹740.00	Active	2025-11-20 13:11
82	Weekly	2025-11-10	2025-11-16	Dinner	Nonveg	₹370.00	Completed	2025-11-09 12:37
81	Trial	2025-11-10	2025-11-10	Dinner	Veg	₹50.00	Cancelled	2025-11-09 12:34

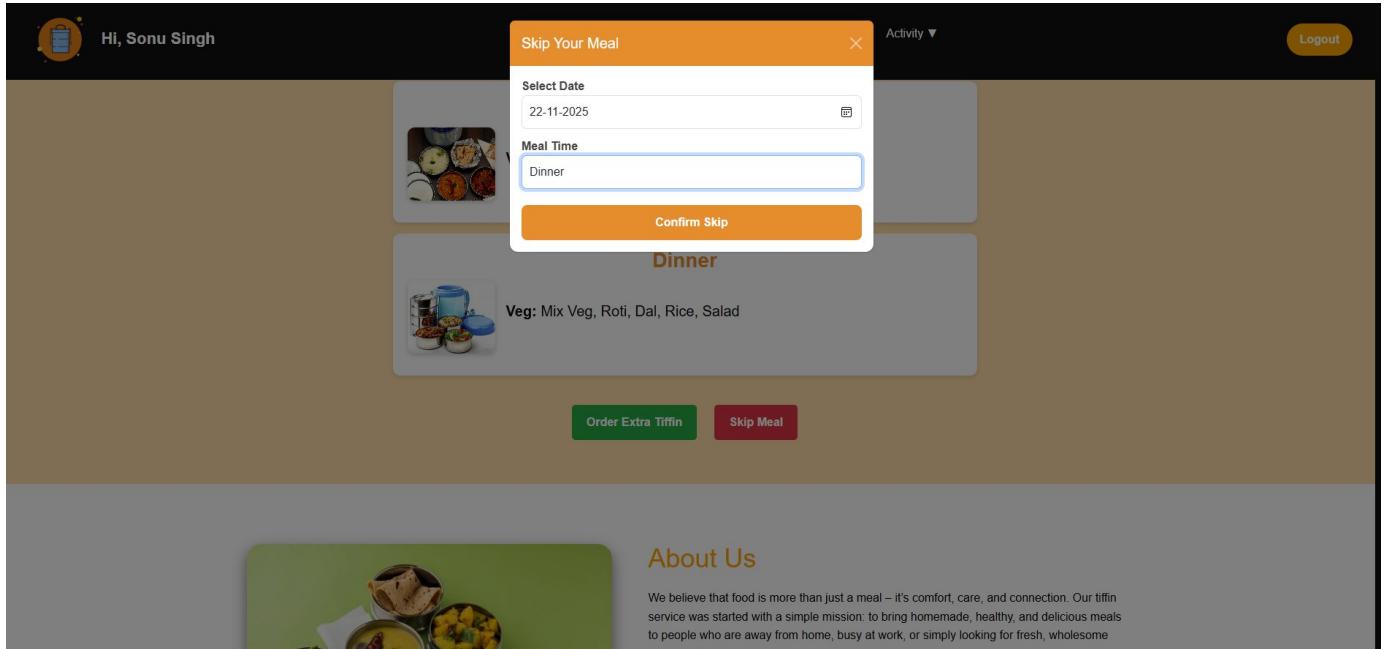
## 5. Subscription History Page

- This screen displays the **Subscription History**, showing all past and current plans with details like plan type, dates, amount paid, food type, and status (Active, Completed, Cancelled).
- It helps users easily track their previous subscriptions and stay updated on their current plan status.



## 6. Extra Tiffin Order Page

- This screen shows the **Extra Tiffin Order popup**, where users can choose date, number of meals, meal time, food type, and payment method before placing an additional tiffin order.
- It also displays the **calculated total cost** and shows alerts such as restrictions (e.g., non-veg allowed only on Sundays) to guide user choices.

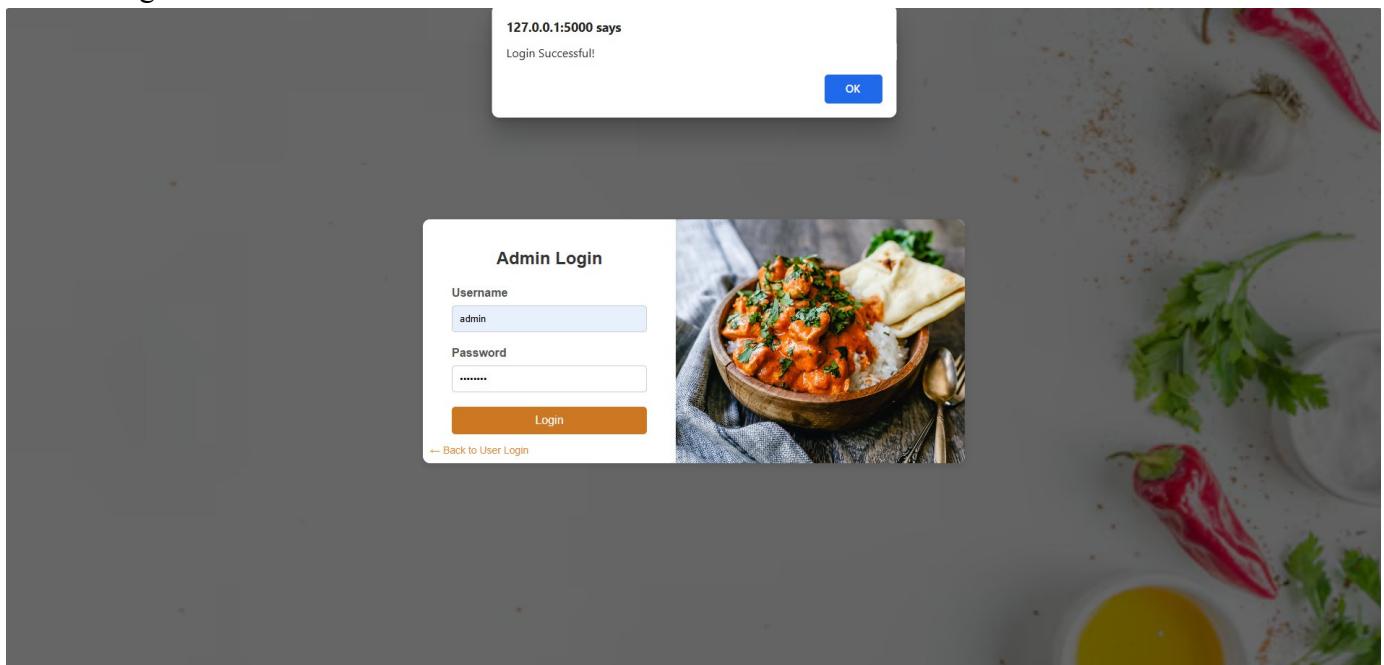


### About Us

We believe that food is more than just a meal – it's comfort, care, and connection. Our tiffin service was started with a simple mission: to bring homemade, healthy, and delicious meals to people who are away from home, busy at work, or simply looking for fresh, wholesome food.

### 7. Skip Meal Page

- This screen shows the **Skip Meal popup**, where users can select a date and meal time to skip their tiffin for a particular day.
- It helps users manage their subscription flexibly by allowing them to confirm a meal skip with a single click.



### 8. Admin Login Page

- This screen shows the **Admin Login Page**, where the administrator enters a username and password to access the admin dashboard.
- It ensures secure restricted access and provides a link to switch back to the user login page.

**Update Meal Item**

Meal Date  
2025-11-21

Lunch

Veg Meal  
Cauliflower, Roti, Dal, Rice, salad

Upload Image  
 No file chosen

Dinner

Veg Meal  
Mix Veg, Roti, Dal, Rice, Salad

Upload Image  
 No file chosen

### 9. Admin – Update Meal Item Page

- This screen shows the **Update Meal Item Page**, where the admin can update lunch and dinner menus by entering meal details, selecting a date, and uploading images.
- It helps administrators manage daily meal updates efficiently to ensure users always see the latest menu.

Manage Meal Plans						
ID	Plan Type	Days	Veg Price	Non-Veg Price	Description	Action
1	Trial	1	100	120	Perfect to taste before you commit.	<input type="button" value="Edit"/>
2	Weekly	7	600	750	Perfect for busy week	<input type="button" value="Edit"/>
3	Monthly	30	2400	2800	Your everyday meal partner.	<input type="button" value="Edit"/>
4	Quarterly	90	7000	8500	Long-term care at the best value	<input type="button" value="Edit"/>

### 10. Manage Meal Plans Page

- This screen displays the **Manage Meal Plans Page**, where the admin can view all available plans along with their duration, prices, and descriptions.
- The page provides an **Edit** option for each plan, allowing the admin to update pricing or details whenever needed.