

Tomato.

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# Project Report: Summer Internship

*M.Sc. (Information Technology) 2nd Semester*

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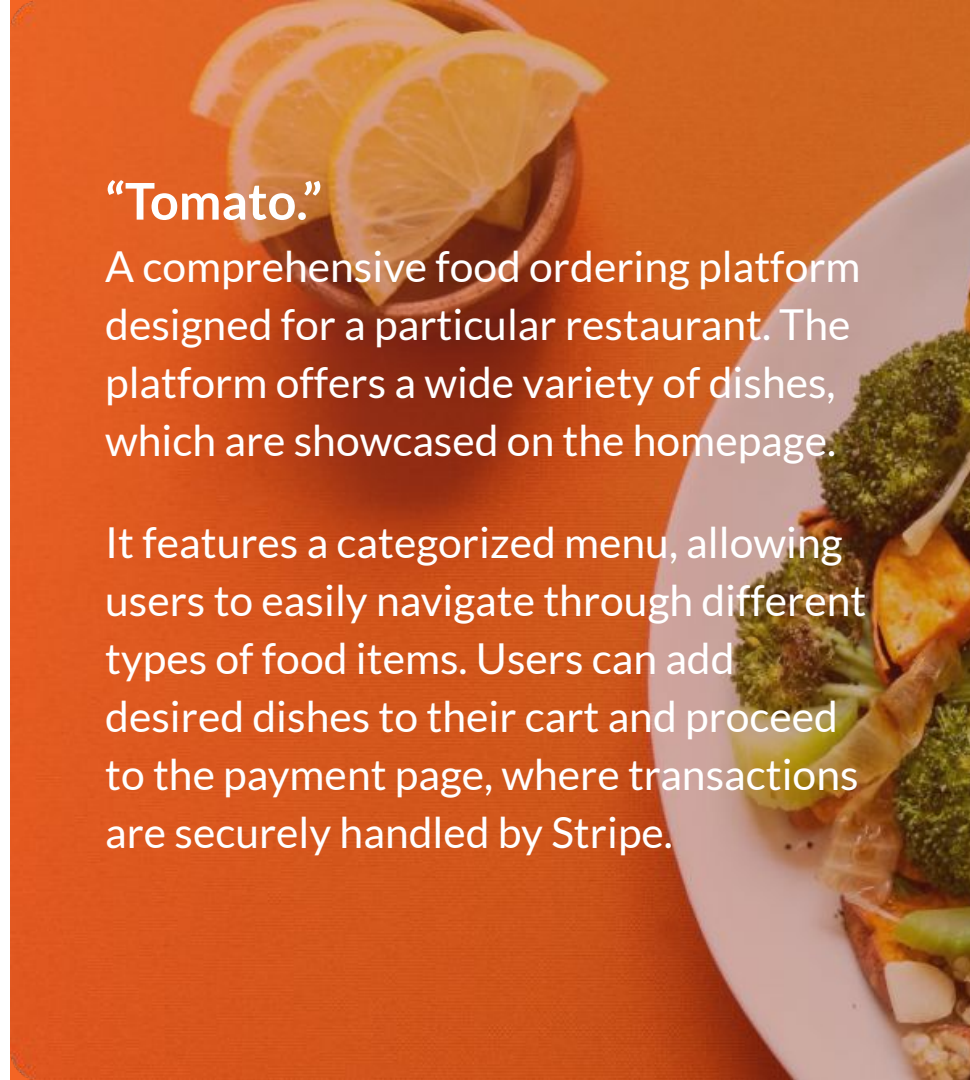
# Tomato.

## Overview

### “Tomato.”

A comprehensive food ordering platform designed for a particular restaurant. The platform offers a wide variety of dishes, which are showcased on the homepage.

It features a categorized menu, allowing users to easily navigate through different types of food items. Users can add desired dishes to their cart and proceed to the payment page, where transactions are securely handled by Stripe.



## Functional Requirements

### User Functions

- Users should be able to log in and log out of their accounts.
  - Users should be able to browse food options and search for specific items.
  - Users should be able to add items to their shopping cart and specify quantities.
  - Users should be able to check out, enter delivery details, and place orders.
  - Users should be able to track the status of their orders.
  - Users should be able to check his previous orders.
  - Non-logged-in users should be prompted to login to access checkout.
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## Functional Requirements

### Admin Functions

- Admins should be able to view incoming orders and manage them.
  - Admins should be able to accept orders and mark them as out for delivery.
  - Admins should be able to manage food items in the inventory, including adding, deleting, and updating items.
  - Admins should be able to view past orders and earnings.
  - Admins should be able to accept or reject items for inclusion in the inventory.
  - Admins should be able to indicate when an item is ready for delivery.
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## Non-Functional Requirements

**Security:** The system should ensure secure transactions and protect user data.

**Usability:** The system should be user-friendly and easy to navigate.

**Scalability:** The system should be scalable to accommodate future growth.

**Maintainability:** The system should be designed in a way that makes it easy to maintain and update.

**Responsive:** The system should be responsive and should work on every screen size.

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# Coding & Design

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## Technologies and Frameworks

### Front-End

- **Vite React Framework:** Used to create a fast and modular user interface.
  - **JavaScript:** The primary programming language for front-end development.
  - **CSS3 and HTML5:** Used for styling and structuring web pages.
  - **Axios:** A promise-based HTTP client for making API requests.
  - **Toastify:** For displaying notifications and alerts.
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## Back-End

- **Node.js:** A JavaScript runtime for building the server-side of the application.
  - **Express.js:** A web application framework for Node.js, used for client/server connectivity and handling routing and middleware.
  - **MongoDB Atlas:** A cloud-based NoSQL database for storing application data.
  - **Mongoose:** An ODM (Object Data Modeling) library for MongoDB, used to define schemas and interact with the database.
  - **JsonWebToken:** Used to create and verify web tokens for authentication.
  - **Bcrypt:** A library for hashing passwords to ensure secure user authentication.
  - **Stripe:** A payment gateway for processing payments securely.
  - **Validator:** Used to validate email addresses and other input data.
  - **Nodemon:** Automatically restarts the server when changes are made to the codebase.
  - **Envdev:** For managing environment variables and configuration.
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## Testing & API Integration

**APIs** : Multiple APIs were developed to handle various functionalities within the app. For example some key APIs are:

- `POST /api/user/logout`: Handles user logout.
- `POST /api/user/register`: Registers new users.
- `GET /api/food/list`: Fetches all available food items.
- `POST /api/food/add`: Adds a new food item (admin only).

**Testing** : To ensure the reliability and performance of the "Tomato" web application, various testing methods were employed

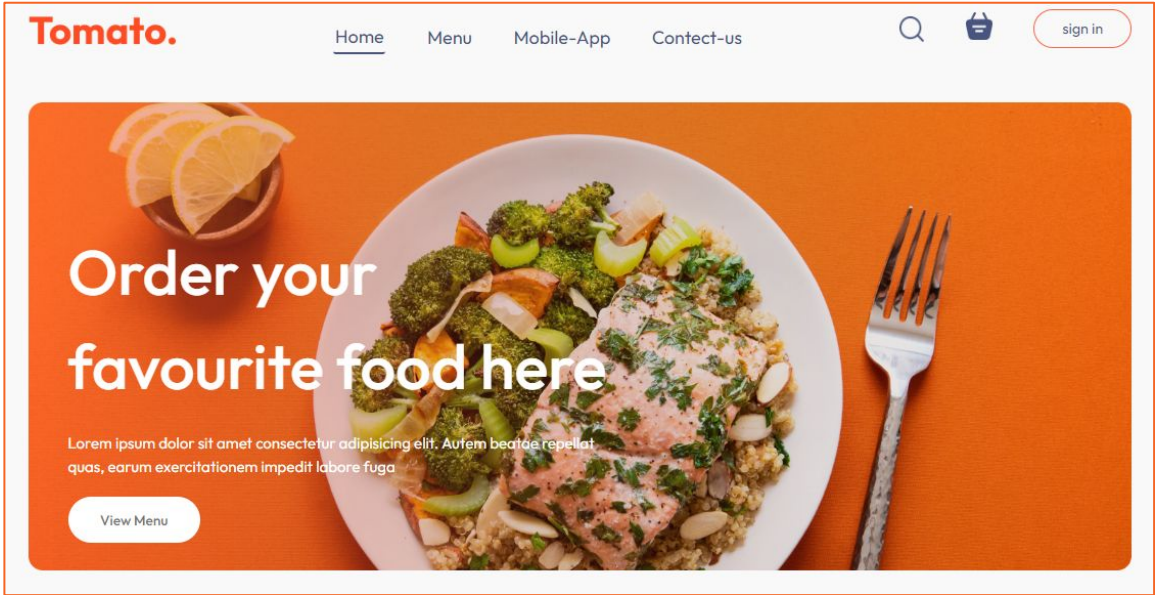
- Unit Testing :
  - Integration Testing
  - End-to-End (E2E) Testing
  - Performance Testing
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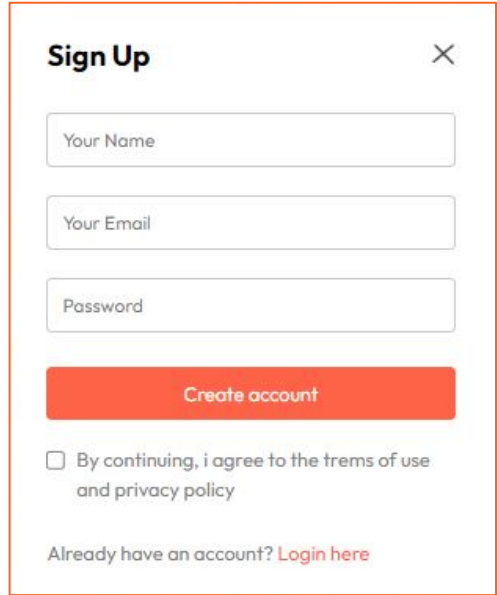
# ScreenSorts

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## Home Page:



## Sign-Up Page:



## Explore Our Menu

Lorem ipsum dolor sit amet consectetur adipisicing elit. Animi quaerat laboriosam eum quod dolor! Doloribus.



Salad



Rolls



Deserts



Sandwich



Cake



Pure Veg



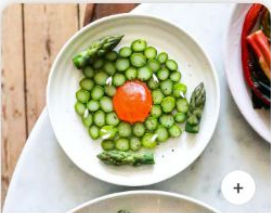
Pasta



Noodles

## Menu

## Top Dishes Near You



Greek salad ★★★★★

₹175



Veg salad ★★★★★

₹145



Clover Salad ★★★★★

₹200



Chicken Salad ★★★★★




₹210




## Food Cards

## Cart

Tomato.

[Home](#)[Menu](#)[Mobile-App](#)[Contact-us](#)



Items	Title	Price	Quantity	Total	Remove
	Greek salad	175	1	₹175	X
	Clover Salad	200	1	₹200	X
	Vanilla Ice Cream	130	1	₹130	X

**Cart Total**

Subtotal

₹505

Delivery Fee

₹23

Total

₹528

If you have a promo code, Enter it here

promo code

Submit

PROCEED TO CHECKOUT

### Delivery Information

Mayank

Tailor

abc@gmail.com

44B , Adersh Nagar,

Udaipur

Rajasthan

303001

India

12344



### Cart Total

Subtotal	₹175
Delivery Fee	₹23
<b>Total</b>	<b>₹198</b>

PROCEED TO PAYMENT

Order's  
Page

### My Orders

	Greek salad X 1	₹198.00	Items:1	● Food Processing	Track Order
	Greek salad X 1	₹198.00	Items:1	● Food Processing	Track Order

My Orders  
Page

Payment Gateway

←

TEST MODE

Pay

₹198.00

Greek salad

₹175.00

Delivery Charges

₹23.00

Pay with card

Email

Card information

1234 1234 1234 1234

VISA

MasterCard

Amex

Discover

MM / YYCVC

Cardholder name

Full name on card

Country or region

India

Pay

Powered by 

stripe

Terms

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## Add Food Items

**Tomato.**  
Admin Panel

Upload Image

Upload

Product name

Type here

Product Discription

Enter your content here

Product Category

Solad

Product Price

£200

ADD



Tomato.


Admin Panel

+ Add Items

☒ List Items

☒ Orders

All Foods List

Image	Name	Category	Price	Action
	Greek salad	Salad	₹175	X
	Veg salad	Salad	₹145	X
	Clover Salad	Salad	₹200	X

## Items List

Tomato.

Admin Panel

+ Add Items

☒ List Items

☒ Orders

Order page



Greek salad x 2, Veg salad x 2, Clover Salad x 1

test singh  
test gali,  
testCity,  
teststhan, India, 12346  
12345678

Items : 3

₹863

Delivered ▼

## Orders Page

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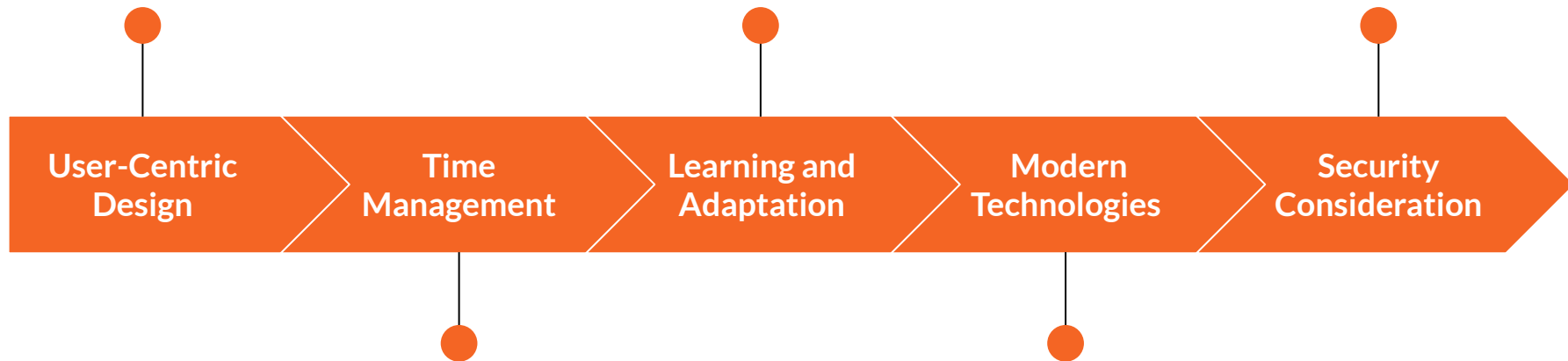
# Lessons Learned

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Focusing on UI & UX to enhance the overall user satisfaction

Staying updated with the latest developments in web technologies and being open to new ideas and approaches.

Integrating security measures such as bcrypt, JsonWebToken for authentication, and input validation using Validator



Effective time management was crucial in ensuring that project milestones were met and deadlines were adhered to.

Modern technologies such as the Vite React framework, MongoDB Atlas, and Node.js facilitated the development of a robust and scalable application.

# Tomato.

## Thank You.

GitHub link -

<https://github.com/tailormayank/Tomato>

## Questions ?

Project link -

<https://tomato-frontend-r1pc.onrender.com/>

Admin Panel link - Project link -

<https://tomato-admin-uelq.onrender.com>