

**A Project Report
on
TIFFIN SERVICE WEBSITE
(GHAR KA KHANA)**

*submitted in partial fulfillment of the requirement for the award of the degree
of*

**Bachelor of Technology
in Computer Science Engineering and Information Technology**

by

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CERTIFICATE

This is to certify that the Project Report entitled, "**Tiffin Service Website (Ghar Ka Khana)**" submitted by "**Gitansha Madan, Ishita Bhatia, Shivani Saluja and Shreya Sureka**" to **The NorthCap University, Gurgaon, India**, is a record of bonafide Project work carried out by him/her under my/our supervision and guidance and is worthy of consideration for the award of the degree of **Bachelor of Technology in Computer Science Engineering** of the University.

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ACKNOWLEDGEMENT

An undertaking is never a result of a solitary individual; rather it bears the engravings of various individuals who specifically or by implication helped in finishing that venture. We would bomb in my obligations on the off chance that we don't let out the slightest peep of gratitude to every one of the individuals who helped us in finishing this task of our own.

Before we start with the details of my projects, we would like to add a few heartfelt words for the people who were part of my project in numerous ways, the people who gave me their immense support right from the initial stage.

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ABSTRACT

People like to use tiffin services nowadays. Through this website, users can use the internet to order Tiffin services. Currently, ready-made food is accessible, but the flavor and quality of handmade meals are different. The tiffin service's business model is rather simple. You feed people who are living away from their homes with wholesome, freshly prepared meals. Most likely, our target market will be students or young working professionals. This project is particularly for ordering homemade cooked food direct from home chefs (service providers). Our project connects customers to home chefs mostly Housewives and encouraging them to use their culinary skills to make money, offering a convenient and flexible job opportunity and food to the customers at minimum price while promoting healthy lifestyle. The purpose of this program is to benefit the user in addition to a homemade meal maker and to establish women's empowerment. We created a system that would serve customers meals like lunch and dinner based on their preferences and geolocation. It will also include Happy Hours having offers (50% off) on all the items which will be available during a specific duration of time. And first user offer is also there where on first order 70% discount will be there for customers.

Keywords: Ordering Process, Unauthorized Access, Secure and Safe System Application, Webpage Application.

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CHAPTER 1

INTRODUCTION

1.1 ABOUT PROJECT

Customers of all tiffin services must communicate with their respective tiffin-vendors each day to let them know how many tiffin's or even how much food they require. Additionally, managing the orders for the tiffin merchants becomes exceedingly challenging (regardless of regular customers).

The tiffin service's business model is rather simple. You feed people who are living away from their homes with wholesome, freshly prepared meals. Most likely, your target market will be students or young working professionals. This project is particularly for ordering homemade cooked food direct from home chefs (service providers). The other websites connect customers to restaurants but our website connects customers to home chefs mostly Housewives and encouraging them to use their culinary skills to make money.

Today's Unconventional Millennial lifestyle where people don't have time to cook often leads to bad eating habits where people do not have time to cook and Relocation due to job or education people find it difficult to find healthy food that is economically viable and hygienic which tastes same as homemade food people deal with eating unhygienic and unhealthy food leading to health issues and improper diet. Moreover, they do not provide option for consumers' well-being where they could inform service providers of any allergies or illnesses they may have.

Our app will have three panels Service Provider (Who will provide tiffins), Customer and Administrator (Who will manage and can add, delete service providers). For designing the website, we have used a geolocation feature where service providers can connect customers with cooks in their local area with faster and more efficient delivery, fresher food and with lower delivery costs. Recommendation system is used where website will recommend according to the customer's reviews and views. Online tiffin services use React as a front-end and Node JS, SQL as the back-end and Python for recommendations. Also, customers can easily track their orders with the food menu. Management improves food delivery services and protects customer databases.

1.2 THE TIFFIN MANAGEMENT SYSTEM

The programme consists of three modules: admin, customer and tiffin service provider.

- 1) ADMIN MODULE:** The admin module enables the centralized administration of the entire system. It includes profiles for tiffin service provider. Tiffin service provider can add their tiffin services in and admin responsibility is to handle and manage all the services so that customer can access any tiffin services.

TIFFIN-SERVICE PROVIDER: This module's main objective is to inform the customer that the order has been placed and about the bill information that customer has to pay. This module is used by the tiffin seller to manage broad modifications that need to be communicated to every customer viewing his or her sector. And tiffin service provider provides all the services to the admin module so that it can be added. There can be many tiffin service providers.

- 2) CUSTOMER MODULE:** It contains the functionality that must be made available to the customer. To utilize the module, the user must first register or login using their credentials. Then the tiffin services and their associated menus start to show up. It is also used to log in and validate a current customer. The customers can then place orders using this module. They are able to modify the order's quantity and include notes.

1.3 BACKGROUND

In the upcoming years, it's anticipated that the market for food delivery applications will be quite strong. Over the past five years, this industry has grown significantly. No matter if it's a large company like Swiggy, a brand-new start-up like a tiffin delivery service or an on-demand ice cream delivery app.

We will learn about the creation of the tiffin delivery app and how well-known companies like Zomato, Swiggy, and Uber Eats came to know this service. Users want a tiffin delivery service app. As a result, even the well-known meal delivery apps are preparing to launch similar services for its users. Any specialty food can be purchased with ease, but normal, delicious tiffin delivery services are more challenging to locate.

The idea behind the tiffin delivery app is to offer clients scrumptious and nutritious cuisine whenever they need it. Due to the large number of people who live apart from their families and are unable to obtain adequate or regular nourishment. Users will be able to access daily on-demand tiffin service thanks to these tiffin delivery service apps.

1.4 FEASIBILITY STUDY

This point described the features you want to include in your app for a tiffin delivery business. The developers must be paid for each feature. Depending on your financial situation and needs, you can add or delete features. Experienced app developers may offer recommendations for features based on their best judgment for controlling your budget and elevating the value of your mobile app.

- Requirements
 1. knowledge of all the technologies that has to be used in the project
 2. Budget to provide services
 3. Attractive website so that more and more customers use it
 4. Good quality of food
 5. Better tiffin services are there

- Design

Every brand or service is recognised by its logo or design, making it a crucial point. Simply by looking at the logo, we can identify McDonald's or Domino's since it is distinctive and distinguishes them from competitors. In order to stand out from other food delivery apps or tiffin delivery service apps, your tiffin delivery service app's design must be appealing.

- Implementation

1. React.js -> React is a JavaScript library used for building User Interface. Frontend of our project is built using react.js
2. NodeJS -> NodeJS is a backend JavaScript run time environment which is used for server side programming.
3. MySQL -> For database part of our project we will use MySQL for storing or retrieving the data. MySQL is used to store data in a relational format i.e in the form of tables.
4. Python (Machine Learning)-> For recommendation system in our project we will use machine learning, User-based and Item-based Recommendations are followed according to Geolocations.

- Testing

Now that the app has been created, the designing portion has also been done correctly. Verify that the components you have added are functioning properly. Check that the app is behaving the way you expected it to and that all of its features are operating correctly.

- Maintenance

This component is effective both when your programme is prepared to run and while it is already operating if there is a technical issue or you need an update. You can complete it using this feature. Making an app is only the beginning; you also need to have the money available for ongoing app maintenance.

CHAPTER 2

EXISTING SOLUTION

2.1 STUDY OF EXIXTING SOLUTION

Watscooking

Their focus is more on traditional home-cooked meals. Their target audience is those with a full schedule and no time to prepare their own meal. Putting the name's absurdity aside, there is a lot of excitement surrounding the Watscooking app. They provide fresh and delicious home-cooked meals that are delivered to consumers, just like their rivals. They also recruit home cooks and other enthusiasts who want to cash in on their love of food. Their target market is people with busy schedules who don't have time to make their own meals, and their emphasis is more on conventional home-cooked meals. Watscooking is gaining a substantial market share in the meal ordering and delivery sector thanks to its low prices and high quality.

Home Cooked

Based and operating in the UK They offer quality dishes prepared with the highest standards of hygiene. Home Cooked is a different meal delivery app that primarily serves home cooks and is based in the UK. They provide top-notch food that has been hygienically prepared to the greatest standards. Talented chefs and cooks make and deliver fresh, home-cooked meals to customers' doorsteps. They provide a variety of traditional and modern dishes on their menus. Delivery is quick and ordering is simple.

HomeFoodi

HomeFoodi's aim is to make that experience affordable, accessible, and appetizing. That many of the home-cooked food delivery services are from India shouldn't come as a surprise. The general populace has always enjoyed eating meals that are traditionally made at home. The purpose of HomeFoodi is to make that experience inexpensive, available, and tasty. It has taken a lot of work to ensure that all partner cooks and chefs prepare their meals to a high degree and adhere to rigid cleaning regulations.

Masala Box

Masala Box blends cleanliness, accessibility, and financial security with the benefits of warm, fresh cuisine. A network of chefs makes fresh, home-cooked cuisine in a specific area as part of an innovative project. Masala Box has a network of over 300 home chefs in Bengaluru that prepare food using fresh garden produce. The firm uses nice, spotless kitchens to cook food without sacrificing cleanliness or food quality. Its USP is that you only need to establish preferences once, then promptly at mealtime,

additive-free food keeps arriving on your table. The selection of Indian and international cuisines at Masala Box is appealing.

Corporate Dhaba

In Delhi NCR, Corporate Dhaba offers delivery for lunch and dinner and has a tasty menu planned out for the week. It holds that meals should be healthful, hygienic, enticing, and enjoyable. Its cuisine is inexpensive and has provided more than 13.5 lakh meals for close to 1,100 consumers, a list that is astounding. Corporate Dhaba's fair share of loyal customers have provided some fantastic feedback regarding food packaging.

Sprink

There is no compromise on quality because ingredients are only purchased from authorised retailers and reliable wholesalers. They don't use ingredients or frozen goods that were kept in the freezer the day before. No preservatives or additives are used in dishes prepared by expert chefs; only the finest oils and spices are used. They have an adaptable menu and provide choices for shifting preferences.

Spice Box

With very little oil and masalas used by the chefs, this Mumbai-based meal delivery service guarantees "Ghar ka khana" each and every time. Ordering food on the website should take less than two minutes. They have a policy of cancellation, and credits are returned to users' wallets. In addition to a basic plan, their flexible plan provides substantial savings, saving more than Rs.1,200 for a three-month plan.

2.2 COMARISON WITH EXISTING SOFTWARE SOLUTION

Other existing solutions connect customers to restaurants and café while our website connects customers to home chefs mostly Housewives and encouraging them to use their culinary skills to make money, offering a convenient and flexible job opportunity and food to the customers at min. price while promoting healthy lifestyle.

	Existing Software (UberEats)	Tiffin Service
Partners	Have 2 partners – Restaurant And delivery person.	Have Single partner – Tiffin Service provider.
Packing charges	High packing charges	Low packaging charges
Price	High prices	Reasonable prices
Delivery charges	Charges from Rs. 30 to 40 per delivery if order is below minimum order	No extra delivery charges
Service provider	Restaurants /cafes/Home chefs	Home-made food (given priority to independent women)
Growing concern for healthy food	Not taken care of	Taken care of
Happy hours	Not provided	Provided

Swiggy and UberEats are popular online food delivery platforms that connect customers with a wide range of restaurants and food vendors. While there are similarities between the project and these existing platforms, there are also notable differences:

1. Homemade meals vs. restaurant meals: This project focuses on connecting customers with home chefs who prepare homemade meals. Swiggy and UberEats, on the other hand, primarily partner with restaurants and food vendors to offer a wide variety of cuisines. The emphasis on homemade meals in the described project provides a unique selling proposition and can cater to customers looking for a different dining experience.
2. Culinary skills of home chefs: This project aims to empower home chefs, particularly housewives, by utilizing their culinary skills and offering them a flexible job opportunity. Swiggy and UberEats do not specifically focus on home chefs or highlight the expertise of individual cooks. Instead, they provide a platform for restaurants and food vendors to reach a larger customer base.

3. Personalized preferences and geolocation: Both the project and Swiggy/UberEats take into account customers' preferences and geolocation to provide tailored meal options. However, the described project's emphasis on homemade meals may allow for more customization and flexibility in accommodating specific dietary needs or preferences.
4. Promotional offers: This project includes promotional offers such as Happy Hours with a 50% discount on all items for a specific duration of time. It also offers a significant discount for first-time users. Swiggy and UberEats also provide various promotional offers and discounts, but they may differ in terms of the specifics and availability.

This project focuses on the unique proposition of homemade meals, connecting with home chefs, and promoting women's empowerment while providing personalized meal options and promotional offers.

2.3 GAP ANALYSIS

1. **Market Research:** Conduct comprehensive market research to determine the demand for tiffin services among students and young working professionals. Identify your target market, understand their preferences, and analyse the competition in the market to gain a competitive edge.
2. **User Experience:** Develop a user-friendly website that provides a seamless ordering experience. Ensure easy navigation, clear instructions, and a responsive design that caters to different devices. Gather user feedback and conduct testing to identify and address any usability issues.
3. **Home Chef Onboarding:** Establish a thorough onboarding process for home chefs to join your platform. Define requirements, guidelines, and quality standards for becoming a home chef. Provide necessary support and training materials to help them excel in their culinary skills.
4. **Quality Control:** Implement a robust system to maintain consistent food quality. Establish processes for monitoring and evaluating the food prepared by home chefs, ensuring adherence to the expected standards. Consider implementing a transparent rating and review system for customers to provide feedback.
5. **Geolocation and Preferences:** Develop a reliable system to accurately determine customers' geolocation and preferences. Integrate geolocation APIs and build a comprehensive customer profile system to effectively serve personalized meal options based on their location and preferences.

6. **Pricing and Profitability:** Conduct a comprehensive cost analysis to ensure the profitability of your business. Determine the pricing structure considering factors such as ingredient costs, delivery expenses, packaging, and home chef commissions while providing affordable options to customers.
7. **Marketing and Promotion:** Devise a comprehensive marketing strategy to attract customers. Utilize various channels, including social media, online advertising, influencer partnerships, and targeted campaigns, to raise awareness about your tiffin service and its unique value propositions.
8. **Scalability and Expansion:** Plan for scalability and expansion as your customer base grows. Ensure that your website and infrastructure can handle increasing demand. Develop a growth strategy for expanding into new locations or targeting different customer segments.

CHAPTER 3

PROBLEM AND OBJECTIVES

3.1 PROBLEM STATEMENT

The increasing demand for wholesome, freshly prepared meals and the desire for authentic homemade flavors have created an opportunity to provide tiffin services through an online platform. This project aims to connect users, primarily students and young working professionals, with home chefs, predominantly housewives, who can leverage their culinary skills to offer homemade cooked food and earn income.

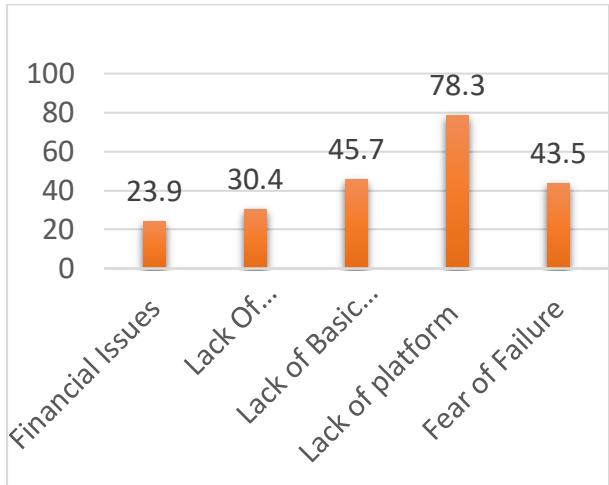
However, several challenges exist within the current food delivery landscape. Ready-made food options are readily available, but they often lack the distinctive taste and quality found in homemade meals. Additionally, there is a lack of job opportunities for housewives to utilize their cooking expertise and contribute to their households' income.

To address these challenges, our project seeks to establish a tiffin service platform that bridges the gap between customers and home chefs. By leveraging the convenience of the internet, users can easily access and order homemade cooked meals based on their preferences and geolocation.

- **UNAVAILABILITY OF HEALTHY AND AFFORDABLE HOME MADE FOOD** - There are no facilities for home meal services like mess and tiffin service in the existing system. Suppliers and consumers will be able to access the proposed system as a platform. Relocation due to job or education, people find it difficult to find healthy home-made food at an affordable price.
- **NO-TIME TO COOK** - Unconventional Millennial lifestyle where people don't have time to cook. Often leads to bad eating habits.
- **PERSONALISED DIET** - Lack of hygiene is the major issue for every other person. People who have dietary or medical issues.

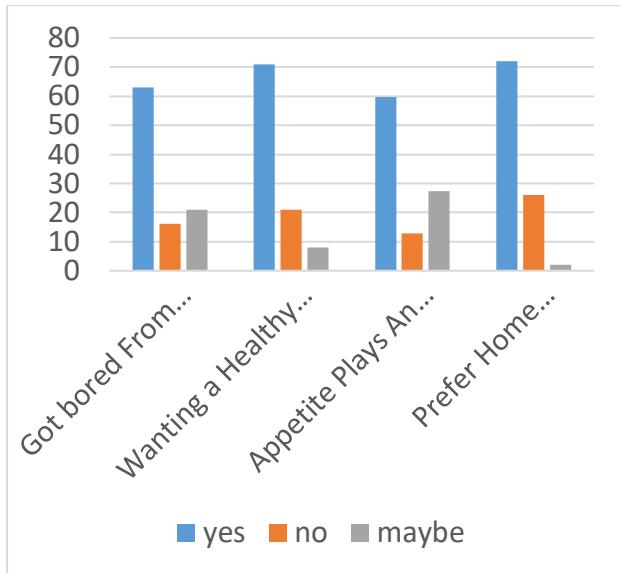
3.2 MARKET SURVEY

Survey from service providers



In this survey we asked the people about the challenges they are facing to start and we found that 78.3% people have lack of platform.

Survey from customers



In this survey we asked the people about various questions like Do you feel that one could get bored eating the same food every day? Do you believe appetite plays an important part in having an active and healthy mind? Do you believe that hygienic and healthy food plays an important role in your physical wellbeing?

3.3 OBJECTIVES

- **Provide a convenient and user-friendly online platform:** Develop a user-friendly website that allows customers to easily access and order homemade meals from home chefs. Ensure a seamless and intuitive ordering process to enhance the overall user experience.
- **Connect customers with home chefs:** Establish a robust system that connects customers with home chefs, primarily housewives, enabling them to showcase their culinary skills and earn income from home. Foster a sense of community and empowerment among home chefs, creating a platform for them to share their homemade meals with a wider audience.
- **Offer a variety of wholesome homemade meals:** Curate a diverse menu of wholesome and freshly prepared meals to cater to different dietary preferences and restrictions. Include options for vegetarian, vegan, gluten-free, and other dietary needs to accommodate a wide range of customers.
- **Ensure quality and consistency:** Implement a quality control process to ensure that all meals offered meet high standards of taste, hygiene, and presentation. Regularly assess and monitor the performance of home chefs, providing feedback and support to maintain consistent quality across all orders.
- **Personalize meal options:** Develop a system that allows customers to customize their meal preferences, such as portion sizes, ingredients, and spice levels. Utilize customer feedback and data to continually improve and refine the personalized meal offerings.
- **Promote healthy eating and a balanced lifestyle:** Educate customers about the importance of healthy eating and the benefits of homemade meals. Collaborate with nutritionists or dieticians to provide nutritional information and tips, promoting a balanced lifestyle among the target market of students and young working professionals.
- **Implement promotional strategies:** Introduce promotional offers such as Happy Hours, providing discounts on all items during specific time slots, and a generous first-time user discount. Create marketing campaigns to raise awareness and attract new customers, emphasizing the unique value proposition of homemade meals and the empowerment of home chefs.
- **Ensure efficient delivery and customer support:** Develop a reliable delivery system that ensures timely and efficient delivery of meals to customers' locations. Implement a robust customer support mechanism to address any queries, concerns, or issues promptly, ensuring a positive and satisfactory customer experience.
- **Monitor and analyze performance:** Regularly analyze data on customer orders, feedback, and preferences to identify trends, areas for improvement, and opportunities for growth. Utilize data-driven insights to make informed decisions and optimize the project's operations and offerings.

- **Foster women's empowerment and social impact:** Establish partnerships or initiatives that promote women's empowerment, such as skill development programs or support networks for home chefs. Measure and track the project's impact on empowering women and supporting their economic independence.

Four Main Objectives of this Project

1. Personalized Meal



2. Connecting Homechefs to Customers



3. Happy Hours

GHAR KA KHAANA

Enjoy your Healthy Delicious food

Happy Hour

FROM 1 PM TO 4 PM

"Savor the flavors of sustainability"

50% OFF

4. First User Offer

GHAR KA KHAANA

Enjoy your Healthy Delicious food

First User Offer

70% OFF

70% discount will be there on first order

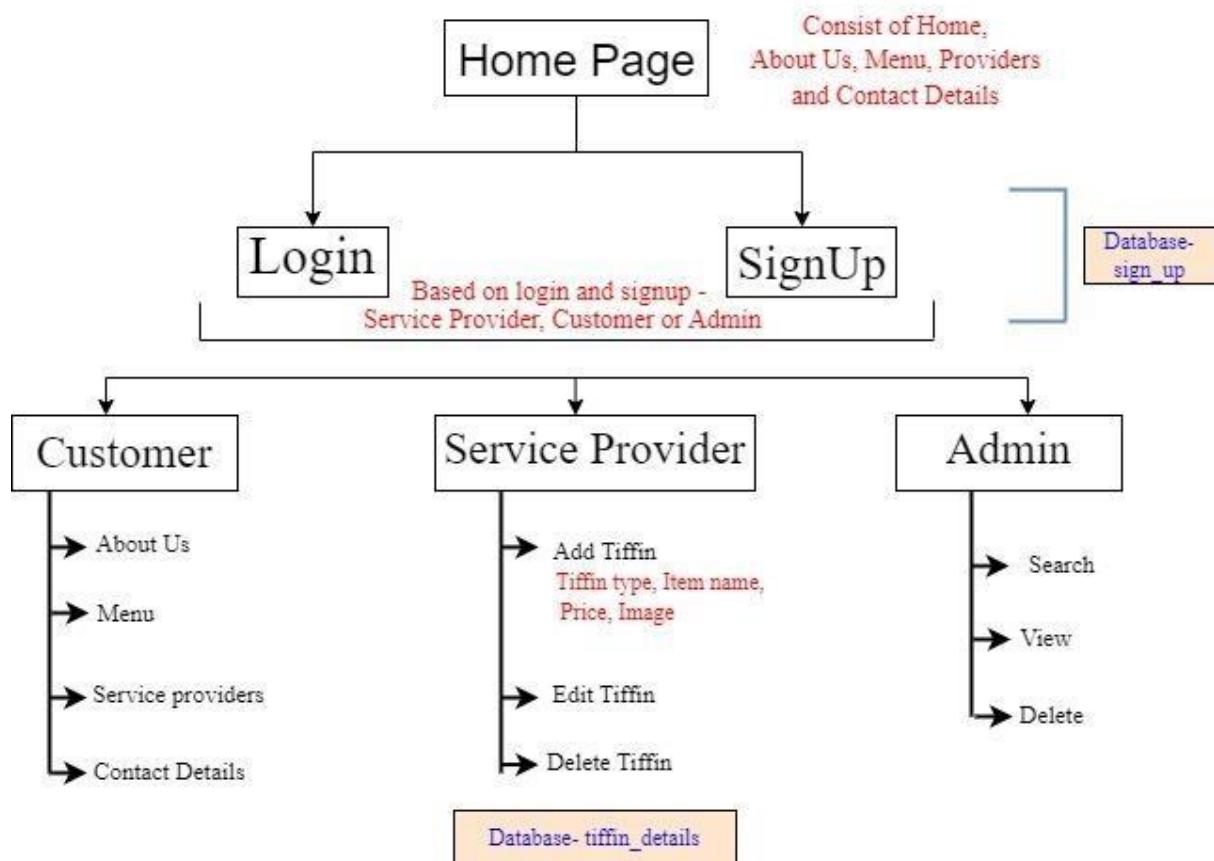
"Savor the flavors of sustainability"

CHAPTER 4

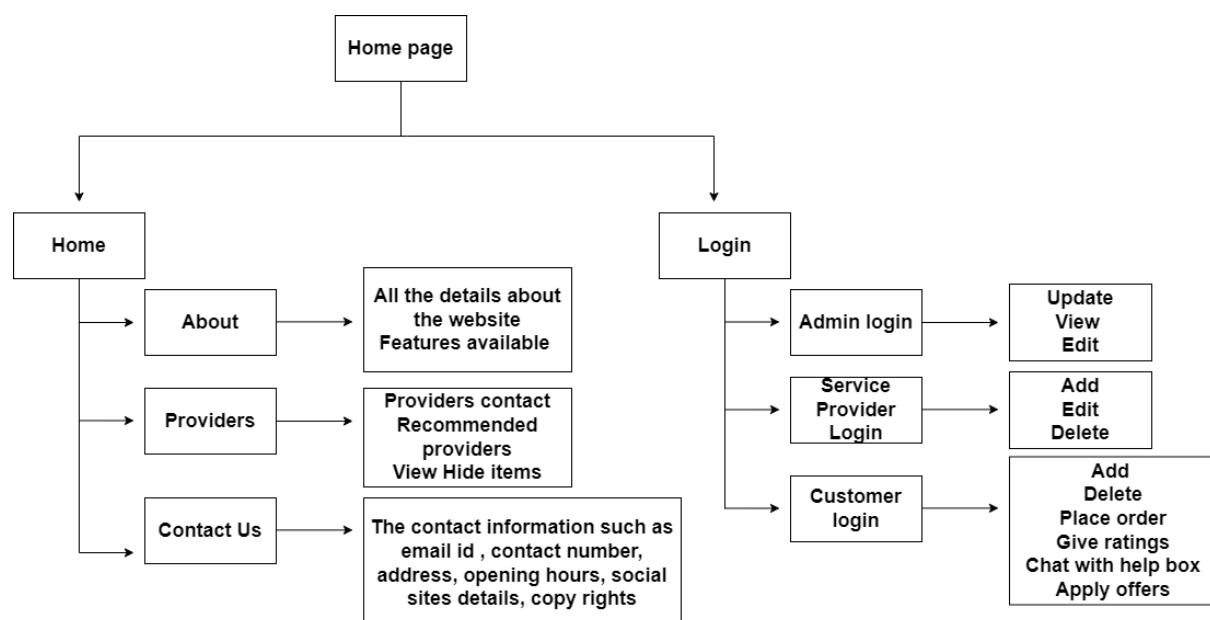
METHODOLOGY

4.1 THE WEBSITE

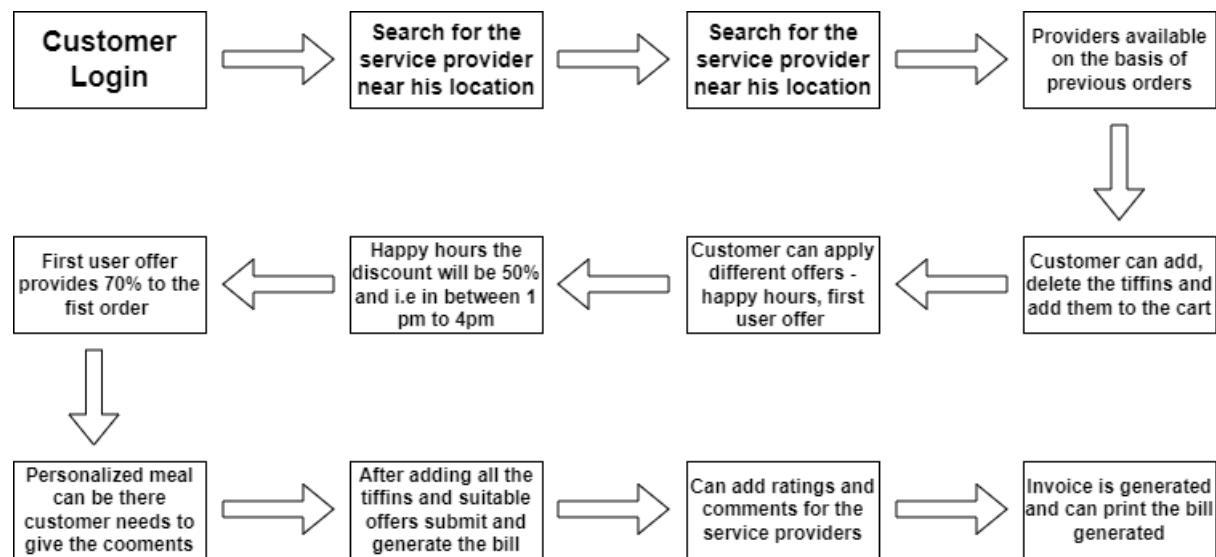
Tiffin Service (Ghar Ka Khaana)



HOME PAGE



CUSTOMER ORDERING PROCESS



4.2 TECHNOLOGY USED

TECH STACK

React.js (Frontend)

ReactJS is a front end component-based open-source library that is exclusively in charge of the application's display layer. Facebook looks after it.

ReactJS uses a virtual DOM-based technique to fill the HTML DOM with data (views). The virtualDOM operates quickly because it just modifies certain DOM components rather than rebuilding the whole DOM each time.

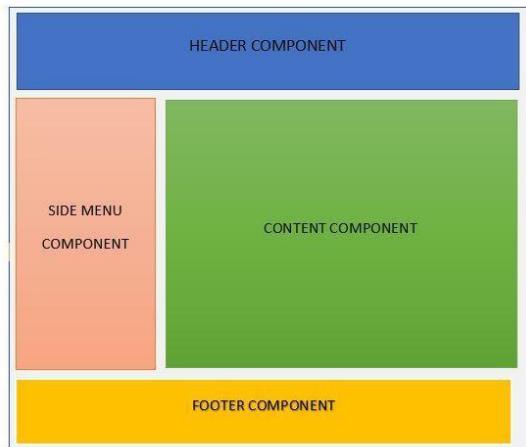
Each component in a React application is in charge of producing a discrete chunk of reusable HTML. The ability to nest components within other components enables the construction of sophisticated applications from simple building blocks. A component can also keep track of its internal state; for instance, a Tab List component can save a variable for the tab that is open at themoment.

React allows us to write components using a domain-specific language called JSX. JSX allows us to write our components using HTML, whilst mixing in JavaScript events. React will internally convert this into a virtual DOM, and will ultimately output our HTML for us.

React is an open source library for creating user interface. It is not a framework; it is a library which focuses on user interface.

Creation of react app → npx create-react-app my-app

React is created using a component-based architecture, which promotes reusability.



We have 2 types of components: -

1. Stateless Functional Component □ These are javaScript functions that returns HTML which describes the UI.
2. Stateful class component □ Class extendingComponent class. This component also requires a render() which returns HTML.

NodeJS + Express

Node.js is a powerful and popular open-source runtime environment that allows you to run JavaScript code on the server-side. It utilizes Google's V8 JavaScript engine to execute JavaScript code outside the browser, enabling developers to build scalable and high-performance web applications.

Express, on the other hand, is a fast and minimalist web application framework for Node.js. It provides a set of robust features and utilities for building web applications and APIs. Express simplifies the process of handling HTTP requests, routing, and middleware integration, making it a popular choice among developers.

When used together, Node.js and Express form a powerful combination for building server-side web applications. Node.js provides the runtime environment, while Express offers a structured framework to organize and handle HTTP requests and responses.

Express provides a simple and intuitive API for defining routes, handling HTTP methods (such as GET, POST, PUT, DELETE), and rendering dynamic HTML templates. It also supports the use of middleware, which allows developers to modify the request and response objects, add functionality, and handle common tasks like authentication, logging, and error handling.

The asynchronous and event-driven nature of Node.js, combined with the simplicity and flexibility of Express, makes it well-suited for building real-time applications, APIs, and single-page applications (SPAs). Additionally, the vast ecosystem of npm (Node Package Manager) modules provides a wide range of reusable libraries and tools that can be easily integrated into Express applications.

Overall, Node.js and Express offer a robust and efficient platform for building server-side web applications, providing developers with the tools and flexibility needed to create scalable and high-performance applications.

The characteristics of Express js in this are:-.

1. rapid development on the server-side

You can save a lot of time thanks to the features of Node js.

2. Middleware

Middleware is a request handler that has access to an application's request-response cycle.

1. Routing

It describes how the endpoint URLs of an application respond to client requests.

2. Templating

It offers HTML templating engines that generate templates for dynamic content on web pages onthe server.

3. Debugging

By locating problems precisely, Debugging Express makes it simpler.

Python (Backend)

Python is a versatile and high-level programming language that is widely used for various purposes, including web development, data analysis, artificial intelligence, scripting, and automation. It was created by Guido van Rossum and released in 1991, emphasizing code readability and simplicity.

Python's simplicity and readability make it an excellent choice for beginners learning to program. Its clean and intuitive syntax allows developers to express concepts in fewer lines of code compared to other languages. Python follows the principle of "Readability counts," promoting clean and understandable code.

One of the key strengths of Python is its extensive standard library, which provides a wide range of pre-built modules and functions for performing various tasks. This library makes it easy to accomplish complex tasks without having to write code from scratch. Additionally, Python has a vast ecosystem of third-party libraries and frameworks, such as NumPy, pandas, Django, and Flask, which further extend its capabilities for specific domains and applications.

Python supports multiple programming paradigms, including procedural, object-oriented, and functional programming, allowing developers to choose the most suitable approach for their projects. It also offers excellent integration capabilities, making it easy to interface with other languages and systems.

Python's popularity has grown significantly in recent years, thanks to its adoption by major tech companies and its use in emerging technologies like machine learning and data science. The availability of powerful libraries, such as TensorFlow and scikit-learn, has made Python a go-to language for these domains.

Overall, Python's simplicity, versatility, and extensive ecosystem make it an ideal choice for developers across a wide range of applications and industries. Its ease of use, combined with its powerful capabilities, has contributed to its widespread adoption and popularity in the programming community.

DATABASE

My SQL

A standardised programming language called Structured Query Language (SQL) is used to administer relational databases and carry out various operations on the data they contain.

Users can access and modify data in the RDBMS system with its assistance. The phrase "Structured Query Language" first introduced in 1974.

Five types of SQL queries are

- 1) **Data Definition Language (DDL)** - Data Definition Language helps you to define the database structure or schema.

Create - CREATE statements is used to define the database structure schemaDrop - Drops commands remove tables and databases from RDBMS.

Alter - Alters command allows you to alter the structure of the database. To modify an existing column in the table

Truncate - This command used to delete all the rows from the table and free the space containing the table.

2) **Data Manipulation Language (DML)** - Data Manipulation Language (DML) allows you to modify the database instance by inserting, modifying, and deleting its data. It is responsible for performing all types of data modification in a database.

Update - This command is used to update or modify the value of a column in the table.

Insert - This is a statement is a SQL query. This command is used to insert data into the row of a table.

Delete - This command is used to remove one or more rows from a table.

3) **Data Control Language (DCL)** - DCL (Data Control Language) includes commands like GRANT and REVOKE, which are useful to give “rights & permissions.” Other permission controls parameters of the database system.

Grant - This command is used to give user access privileges

to a database. Revoke - It is useful to back permissions from the user.

4) **Transaction Control Language (TCL)** - Transaction control language or TCL commands deal with the transaction within the database.

Commit - This command is used to save all the transactions to the database.

Roll Back - Rollback command allows you to undo transactions that have not already been saved to the database.

5) **Data Query Language (DQL)** - Data Query Language (DQL) is used to fetch the data from the database. It uses only one command:

SELECT: This command helps you to select the attribute based on the condition described by the WHERE clause.

A database can be queried using SQL. A database can have data retrieved using SQL. A database can have records added using SQL. A database record can be updated using SQL. A database can have records deleted using SQL. New databases can be made with SQL. A database can have new tables created using SQL. A

database's stored procedures can be created using SQL. A database can have views created via SQL. For tables, methods, and views, SQL can set permissions.

RECOMMENDATION SYSTEM

A recommendation system is a type of information filtering system that predicts and suggests items or content that users might be interested in. It analyzes user preferences, historical data, and other relevant factors to generate personalized recommendations. Recommendation systems are widely used in various domains, including e-commerce, streaming platforms, social media, and more.

Types of Recommendation Systems:

1. **Content-Based Filtering:** Content-based filtering recommends items based on their similarity to the items a user has liked or interacted with in the past. It uses attributes or features of items, such as keywords, genres, or descriptions, to create user profiles and match them with similar items. This approach is based on the assumption that users' preferences are consistent and they will likely enjoy items with similar characteristics.
2. **Collaborative Filtering:** Collaborative filtering recommends items based on the preferences of similar users. It analyzes user-item interaction data, such as ratings or feedback, to identify patterns and make recommendations. There are two main types of collaborative filtering:
 - a. **User-Based Collaborative Filtering:** It finds users who have similar preferences or behaviors and recommends items that those similar users have liked or preferred.
 - b. **Item-Based Collaborative Filtering:** It identifies items that are similar based on user preferences and recommends items that are similar to the ones a user has already liked or interacted with.

LOCATION WISE SEARCH PROVIDERS

- To connect customers with cooks in their local area
- faster and more efficient delivery, fresher food
- lower delivery costs

ChatBot

The chatbot is made using the cloud and intents has been added to it

The screenshot shows the Dialogflow interface for the 'MyChatAgent' agent. The left sidebar includes sections for Intent, Entities, Knowledge, Fulfillment, Integrations, Training, Validation, History, Analytics, Prebuilt Agents, and Small Talk. The main area is titled 'Intents' and contains a 'CREATE INTENT' button. A search bar labeled 'Search Intents' is present. A list of intents is shown, including 'About', 'customer care', 'Default Fallback Intent', 'Default Welcome Intent', 'delivery time', and 'Mail time'. A note at the bottom right says, 'Please use test console above to try a sentence.'

Using Dialogflow ui has been made

The screenshot shows the Dialogflow website. At the top, there's a navigation bar with the Dialogflow logo, 'API & DOCS', 'PRICING', and a 'GO TO CONSOLE' button. Below the navigation, the title 'MyChatAgent' is displayed. A section titled 'Use following code to integrate this agent into your site:' contains an iframe with the following code:

```
<iframe width="350" height="430" allow="microphone;" src="https://console.dialogflow.com/api-client/demo/embedded/9d387d78-c43d-4cf3-8b13-8b090acc72c1"></iframe>
```

To the right, there's a preview window titled 'MyChatAgent' with the Dialogflow logo and 'POWERED BY Dialogflow'. It shows a text input field with the placeholder 'Ask something...' and a microphone icon.

To create it we need to install Kommunicate Chat in our websites and web pages

The screenshot shows the Kommunicate Settings interface. On the left, a sidebar lists various settings categories: PERSONAL, COMPANY, CONVERSATION, CHAT WIDGET, INSTALL, BILLING, DEVELOPER, and DOWNLOAD. The 'INSTALL' category is expanded, and its 'Install' sub-section is selected. The main content area is titled 'Install' and provides instructions for installing Kommunicate Chat in websites and web apps. It includes two buttons: 'Install on your own' and 'Need help to install?'. Below these are sections for 'Install Kommunicate on your website:' and 'Other install options:'. The 'Install on your own' section contains a large block of JavaScript code. The 'Other install options:' section includes fields for 'App ID' (containing '1837531277ae9f0e2cb57420325e7f70a') and 'API Key' (containing 'ikl4Ex0ISxqKaa87CZ3ibJa0iDQRV8u'). There are also dropdown menus for 'Web' and 'Mobile' installation types.

4.3 CHALLENGES AND ISSUES FACED

- **Supply and Demand:** Balancing the supply of home chefs with the demand from customers can be a challenge. Initially, it may be difficult to attract a sufficient number of home chefs or meet the demand during peak hours. On the other hand, during slow periods, there might be an excess supply of meals, leading to potential wastage.
- **Quality Control:** Maintaining consistent quality across different home chefs can be a challenge. Ensuring that all home chefs adhere to the expected standards and deliver meals of consistent quality can be difficult. Implementing a robust quality control system, including monitoring, feedback, and regular assessments, can help address this challenge.
- **Delivery Logistics:** Efficient and timely delivery of meals can be challenging, especially during peak hours or in areas with heavy traffic. Managing delivery personnel, optimizing routes, and maintaining food freshness during transportation require careful planning and coordination.
- **Customer Satisfaction:** Meeting customer expectations consistently is crucial for the success of your project. Challenges can arise in ensuring that the meals served align with customers' preferences and dietary restrictions. Addressing customer complaints and resolving issues promptly is vital to maintain customer satisfaction.
- **Scaling Operations:** As your customer base grows, scaling your operations can present challenges. It may require expanding the number of home chefs, enhancing the technological infrastructure, and streamlining processes to handle increased order volumes efficiently.
- **Building Trust and Safety:** Establishing trust between customers and home chefs is

essential. Customers need assurance regarding food safety, hygiene, and the authenticity of homemade meals. Implementing robust safety measures, providing transparent information about the home chefs, and facilitating customer reviews and ratings can help build trust.

- **Marketing and Competition:** Creating awareness and attracting customers in a competitive market can be challenging. You'll need to develop effective marketing strategies to differentiate your tiffin service from existing options, highlight the unique benefits, and build a strong brand presence.
- **Regulatory Compliance:** Ensure that your tiffin service complies with relevant food safety and hygiene regulations, licensing requirements, and any local laws pertaining to operating a food business. Staying updated with regulations and obtaining necessary permits can be a challenge.
- **Home Chef Availability and Quality:** Finding a sufficient number of home chefs who meet the required quality standards can be challenging. Ensuring that home chefs consistently deliver high-quality meals, adhere to food safety regulations, and maintain hygiene standards may require continuous monitoring and training.
- **Trust and Safety:** Building trust between customers and home chefs is crucial. Customers need assurance regarding food safety, hygiene, and the authenticity of homemade meals. Ensuring proper verification and background checks of home chefs, implementing safety protocols, and maintaining transparency in the platform's operations can help address these challenges.
- **Menu Diversity and Availability:** Ensuring a diverse menu that caters to different dietary preferences, including vegetarian, vegan, gluten-free, and other specific requirements, can be challenging. Coordinating with home chefs to offer a variety of meal options while ensuring availability and timely delivery can be a balancing act.
- **Financial Viability:** Balancing competitive pricing to attract customers while maintaining profitability can be challenging. Conducting thorough cost analysis, managing ingredient costs, delivery expenses, and home chef commissions are crucial to achieving financial viability.

4.4 INTERFACE AND DESIGN METHODOLOGY

Database

Total Databases

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| tiffin_service |
+-----+
3 rows in set (0.00 sec)

mysql> use tiffin_service;
Database changed
mysql> show tables;
+-----+
| Tables_in_tiffin_service |
+-----+
| bill
| bill_items
| cart
| customer_orders
| packages
| payment
| rating
| sign_up
| tiffin_details |
+-----+
9 rows in set (0.08 sec)
```

Sign up database – The details will be used for login up the website

```

mysql> select * from sign_up;
+----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | email | password | avgrating | profile_img | gender | category | username | city | address |
+----+-----+-----+-----+-----+-----+-----+-----+-----+
| 122 | admin@gmail.com | $2b$11$F1DfFGQ400B8r1H1L2nZcaPpRzGp6d.../gs$7/1w8N0XbEke | admin | admin | | chandigarh | sector 34b chandigarh
| 153 | vijaymadan@hotmail.com | $2b$11$7tPQmI9N0qJslY10MzR4d4lvec.../gs$7/1w8N0XbEke | customer | Vijay Madan | Bluj | h no 467, shakti peeth, gujrat
| 124 | aisyjewell@gmail.com | $787666788 | NULL | 167879136323.jpg | Male | provider | Ajay Grover | Mysuru | Sayyaji Rao Rd, Mysuru, Karnataka 570012
| 125 | meghadutt@gmail.com | $2b$11$4Wphg.../gs$7/1w8N0XbEke | provider | Megha Dutt | lucknow | L D A Colony, lucknow(U.P.) , 220012
| 156 | menakauri9@gmail.com | $2b$11$IVxdzkrK09xW.../gs$7/1w8N0XbEke | provider | Meena Kumari | Panchkula | Rajeev Colony, Sector 17, Panchkula(Haryana)
| 127 | vikas@mail.in | $7844748343 | 4 | 167881502905.jpg | Female | provider | Vikas Bhuvan | Kaithal | Maharaja Aggarsain Chowk, Kaithal, Haryana, 136027
| 128 | anuradha@gmail.com | $2b$11$87.../gs$7/1w8N0XbEke | provider | Anuradha Rani | mohali | SCF 78, Phase 5, Mohali 160059 India
| 158 | vatanranav@hotmail.com | $2b$11$73.../gs$7/1w8N0XbEke | provider | Vatan Rana | rsjgarh | almer nagar,rajasthan
| 131 | anjali@gmail.com | $784989387 | NULL | 167879061579.jpg | Female | provider | Anjali Sharma | Panchkula | Rajeev Colony, Sector 17, Panchkula(Haryana)
| 132 | reena@gmail.com | $2b$11$w0.../gs$7/1w8N0XbEke | provider | Reena Chaudhary | Mumbai | Opposite Police Line Building, Near Andheri East Station, Mumbai, Maharashtra
| 133 | rekha@hotmail.com | $2b$11$4d.../gs$7/1w8N0XbEke | provider | Rekha Gupta | Ludhiana | Shop 22-23, Main Market, Sarabha Nagar, Ludhiana, Punjab 141001
| 150 | anshika@gmail.com | $2b$11$0c.../gs$7/1w8N0XbEke | provider | Anshika Ladani | Patna | 2nd Floor, Chandra Complex, Above Manyavar, Boring Road, Sri Krishnapuram, Bihar 800001
| 151 | devidevi@gmail.com | $784746746 | NULL | 167879150001.jpg | Female | provider | Devidevi | 606 N Robertson Blvd, West Hollywood, CA 90069
| 149 | murli@gmail.com | $2b$11$TorpQphk.../gs$7/1w8N0XbEke | provider | Murli Basu | Allahabad | Shikhar Green City at Jhewla in Allahabad, Depravayagam Colony, Jhewla, Allahabad
| 152 | ilahabad@gmail.com | $788688788 | NULL | 167879187934.jpg | Female | provider | Amarnat Palwal | Panchkula | 19, Ektा Vihar, Main Market Baltana, Near SBI ATM, Near Sector 19, Panchkula
| 147 | rshu@hotmail.com | $2b$11$sc.../gs$7/1w8N0XbEke | provider | Rohul Saini | rsjgarh | almer nagar,rajasthan
| 146 | jaspreet@gmail.com | $2b$11$6GF.../gs$7/1w8N0XbEke | provider | Jaspreet Bhutti | Aaritsar | Ramamand Bagh, Katra Ahluwalia, Aaritsar
| 145 | ramans@gmail.com | $2b$11$44.../gs$7/1w8N0XbEke | provider | Raman Bhutani | ahmedabad | Science City Road, Off S. G. Highway, Ahmedabad, Gujarat 380060
| 157 | suman@gmail.com | $2b$11$nn.../gs$7/1w8N0XbEke | provider | Suman Sureka | Gurgaon | sec 83
| 158 | shikha@gmail.com | $2b$11$69.../gs$7/1w8N0XbEke | provider | Shikha Rana | Gurgaon | ggn
| 159 | 9569576294 | NULL | 168404596948.jpg | Female | provider | Shikha Rana | Gurgaon | ggn

```

Database for customer orders

billno	product_id	product_name	product_details	product_category	product_qty	product_price	cname	provider	product_image	provname
62	166	Mexican Rice	imported mexican rice	lunch	1	236.00	Anjali Sharma	meghadutt@gmail.com	1678795889928.jpeg	Megha Dutt
62	168	Chicken Kabab	Turkish Chicken	dinner	1	430.00	Anjali Sharma	meghadutt@gmail.com	1678796168267.jpeg	Megha Dutt
62	164	Chicken Lasagna	spanish dish	breakfast	1	340.00	Anjali Sharma	meghadutt@gmail.com	1678795752903.jpg	Megha Dutt
63	175	Gol Gol Jallebi	Served with Rasmalai	dinner	1	240.00	Reena Chaudhary	meenakumari@gmail.com	1678796698011.jpg	Meena Kumar
63	171	Avacado Smoothie	Special Thandai Mixed	lunch	1	48.00	Reena Chaudhary	meenakumari@gmail.com	1678796398606.jpg	Meena Kumar
63	169	Beetroot Juice	Multivitamin With Citrus	breakfast	1	78.00	Reena Chaudhary	meenakumari@gmail.com	1678796278864.jpg	Meena Kumar
63	174	Moong Dal Halwa	made with shakkar	dinner	1	58.00	Reena Chaudhary	meenakumari@gmail.com	1678796621934.jpg	Meena Kumar
64	181	Chicken Pasta	Chinese Style	lunch	2	120.00	Rahul Saini	vikas@gmail.com	1678797191820.jpg	Vikas Bhuvan
64	183	Chinese Buffet	8 variety of chineese food	dinner	1	178.00	Rahul Saini	vikas@gmail.com	1678797412788.jpeg	Vikas Bhuvan
64	205	Bahubali Thali	20 dishes veg	dinner	3	1098.00	Rahul Saini	anuradha@gmail.com	1678800404718.jpeg	Anuradha Raj
65	174	Moong Dal Halwa	made with shakkar	dinner	1	58.00	Rahul Saini	meenakumari@gmail.com	1678796621934.jpg	Meena Kumar
65	169	Beetroot Juice	Multivitamin With Citrus	breakfast	1	78.00	Rahul Saini	meenakumari@gmail.com	1678796278864.jpg	Meena Kumar
65	166	Mexican Rice	imported mexican rice	lunch	2	236.00	Rahul Saini	meghadutt@gmail.com	1678795889928.jpeg	Megha Dutt
65	168	Chicken Kabab	Turkish Chicken	dinner	2	430.00	Rahul Saini	meghadutt@gmail.com	1678796168267.jpeg	Megha Dutt
66	166	Mexican Rice	imported mexican rice	lunch	1	236.00	Aman Patwal	meghadutt@gmail.com	1678795889928.jpeg	Megha Dutt
66	168	Chicken Kabab	Turkish Chicken	dinner	1	430.00	Aman Patwal	meghadutt@gmail.com	1678796168267.jpeg	Megha Dutt
66	164	Chicken Lasagna	spanish dish	breakfast	1	340.00	Aman Patwal	meghadutt@gmail.com	1678795752903.jpg	Megha Dutt
66	175	Gol Gol Jallebi	Served with Rasmalai	dinner	1	240.00	Aman Patwal	meenakumari@gmail.com	1678796693011.jpg	Meena Kumar
66	169	Beetroot Juice	Multivitamin With Citrus	breakfast	2	78.00	Aman Patwal	meenakumari@gmail.com	1678796278864.jpg	Meena Kumar
67	168	Chicken Kabab	Turkish Chicken	dinner	1	430.00	Aman Patwal	meghadutt@gmail.com	1678796168267.jpeg	Megha Dutt
67	166	Mexican Rice	imported mexican rice	lunch	1	236.00	Aman Patwal	meghadutt@gmail.com	1678795889928.jpeg	Megha Dutt

Service providers updating all the tiffin details

item_name	item_details	item_price	item_image	item_category	userid	id
Allu Paratha	made with pahadi allu	40	167879477885.jpeg	breakfast	ajay@gmail.com	156
Gobi Paratha	Fresh Broccoli with tandoori masala	50	1678794866019.jpeg	breakfast	ajay@gmail.com	157
Cholle Bhature	Amritsari Style	60	1678794949248.jpg	lunch	ajay@gmail.com	158
Panner Chulcha	Kurkura Amritsari Style	50	1678795066526.jpg	lunch	ajay@gmail.com	159
Rajma Cholle	jammu rajma with mdh tadka	120	1678795178403.jpeg	dinner	ajay@gmail.com	160
Dal Makhni	Kali Udad Dal	140	1678795325107.jpeg	dinner	ajay@gmail.com	161
Egg Roll	Eggs With Chicken	85	1678795443039.jpeg	breakfast	meghadutt@gmail.com	162
Chicken Lasagna	spanish dish	340	1678795752903.jpg	breakfast	meghadutt@gmail.com	164
Dum Briyani	Non-Veg Muglai	360	1678795889928.jpeg	lunch	meghadutt@gmail.com	165
Mexican Rice	imported mexican rice	236	1678795889928.jpeg	lunch	meghadutt@gmail.com	166
Kabab	Murg Malai	398	1678796117453.jpeg	dinner	meghadutt@gmail.com	167
Chicken Kabab	Turkish Chicken	430	1678796168267.jpeg	dinner	meghadutt@gmail.com	168
Beetroot Juice	Multivitamin With Citrus	78	1678796278864.jpg	breakfast	meenakumari@gmail.com	169
Detox Juice	Made with Amla, Lemon And Harad	60	1678796343963.jpeg	breakfast	meenakumari@gmail.com	170
Avacado Smoothie	Special Thandai Mixed	48	1678796398606.jpg	lunch	meenakumari@gmail.com	171
Moong Dal Halwa	made with shakkar	58	1678796621934.jpg	dinner	meenakumari@gmail.com	174
Mixed Fruit Yoghurt	Made with Jalapeno,blueberry and more	140	16787965929215.jpeg	lunch	meenakumari@gmail.com	173
Gol Gol Jallebi	Served with Rasmalai	240	1678796693011.jpg	dinner	meenakumari@gmail.com	175
German Pastries	Made in German Style	229	1678797131633.jpeg	breakfast	vikas@gmail.com	180
Besan Ka Halwa	made with kesar and elaychi	139	1678797009582.jpeg	breakfast	vikas@gmail.com	179
Chicken Pasta	Chinese Style	120	1678797191820.jpg	lunch	vikas@gmail.com	181
Italian Pasta	Made with Italian Spices and Sauces	247	1678797345073.jpeg	lunch	vikas@gmail.com	182
Chinese Buffet	8 variety of chineese food	178	1678797412788.jpeg	dinner	vikas@gmail.com	183
Non-Veg Buffet	12 Collection Of Non-Veg	379	1678797514081.jpeg	dinner	vikas@gmail.com	184
Herbal Tea	Made With Jungle Ayurveda	318	1678797661847.jpeg	breakfast	anuradha@gmail.com	185
Oats With Apple	Fruits Mixed	78	1678797870476.jpeg	breakfast	anuradha@gmail.com	186
Royal Thali	4roti+3saabji+raita+ chawal and more	700	1678797944401.jpeg	lunch	anuradha@gmail.com	187
South-Indian Combo	Itli,sambar,vada and many more	337	1678798893677.jpeg	lunch	anuradha@gmail.com	188
Mix Veg	veg with paneer dish	237	1678800242837.jpeg	dinner	anuradha@gmail.com	189
Bahubali Thali	20 dishes veg	1098	1678800404718.jpeg	dinner	anuradha@gmail.com	205
Buttermilk Pancake	spanish recipee	250	1678871201234.jpeg	breakfast	raman@gmail.com	206
Methi Paratha	Kasturi Methi	50	1678800647117.jpeg	breakfast	raman@gmail.com	207
abc	abc	50	1678901144367.jpeg	breakfast	meghadutt@gmail.com	214
Salad	Fruit Salad	239	1678800996296.jpeg	lunch	raman@gmail.com	209
Soya Chaap	soya chaap	280	1678801091679.jpeg	dinner	raman@gmail.com	210
Kadi Pakoda	kadi made with pakoda	320	1678801139244.png	dinner	raman@gmail.com	211
Dum Briyani	Non-Veg Muglai	49	1678871165824.jpg	breakfast	raman@gmail.com	212
rice	1 plate rice	250	1681362818103.png	lunch	meghadutt@gmail.com	215
Cholle Bhature	Amritsari Style	80	1684091820670.jpg	lunch	ajay@gmail.com	216

39 rows in set (0.01 sec)

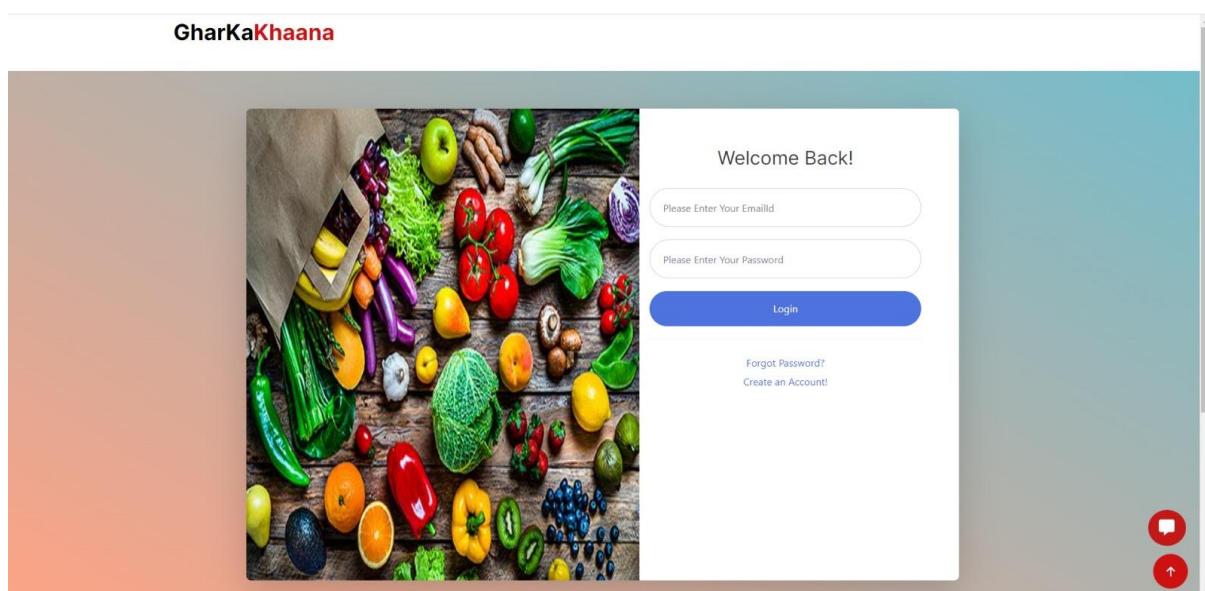
Database for the bills generated

```
mysql> select * from bill;
+-----+-----+-----+
| billno | customer      | amount   |
+-----+-----+-----+
| 62    | Anjali Sharma  | 301.8000 |
| 63    | Reena Chaudhary | 127.2000 |
| 64    | Rahul Saini    | 1113.6000|
| 65    | Rahul Saini    | 1468.0000|
| 66    | Aman Patwal    | 420.6000 |
| 67    | Aman Patwal    | 911.0000 |
| 68    | Aman Patwal    | 719.0000 |
| 69    | Anshika Ladwani | 227.4000 |
| 70    | Aman Patwal    | 899.0000 |
| 71    | Aman Patwal    | 464.0000 |
| 72    | Anshika Ladwani | 675.0000 |
| 73    | Anshika Ladwani | 619.0000 |
| 74    | Anshika Ladwani | 689.0000 |
| 75    | Anshika Ladwani | 259.0000 |
| 76    | Anshika Ladwani | 424.0000 |
| 77    | Aman Patwal    | 790.0000 |
| 78    | Vatan Rana     | 133.2000 |
| 79    | Vijay Madan    | 381.9000 |
| 80    | Anjali Sharma  | 568.0000 |
| 81    | Anjali Sharma  | 568.0000 |
| 82    | Vijay Madan    | 653.0000 |
| 83    | Vijay Madan    | 615.0000 |
| 84    | Anjali Sharma  | 1078.0000|
| 85    | Anjali Sharma  | 445.0000 |
| 86    | Anjali Sharma  | 1216.0000|
| 87    | Anjali Sharma  | 758.0000 |
| 88    | Anjali Sharma  | 1288.0000|
| 89    | Anjali Sharma  | 843.0000 |
| 90    | Anjali Sharma  | 985.0000 |
| 91    | Anjali Sharma  | 985.0000 |
| 92    | Anjali Sharma  | 330.0000 |
| 93    | Jaspreet Bhutti | 123.6000 |
| 94    | Jaspreet Bhutti | 123.6000 |
| 95    | Jaspreet Bhutti | 338.5000 |
+-----+-----+-----+
34 rows in set (0.03 sec)
```

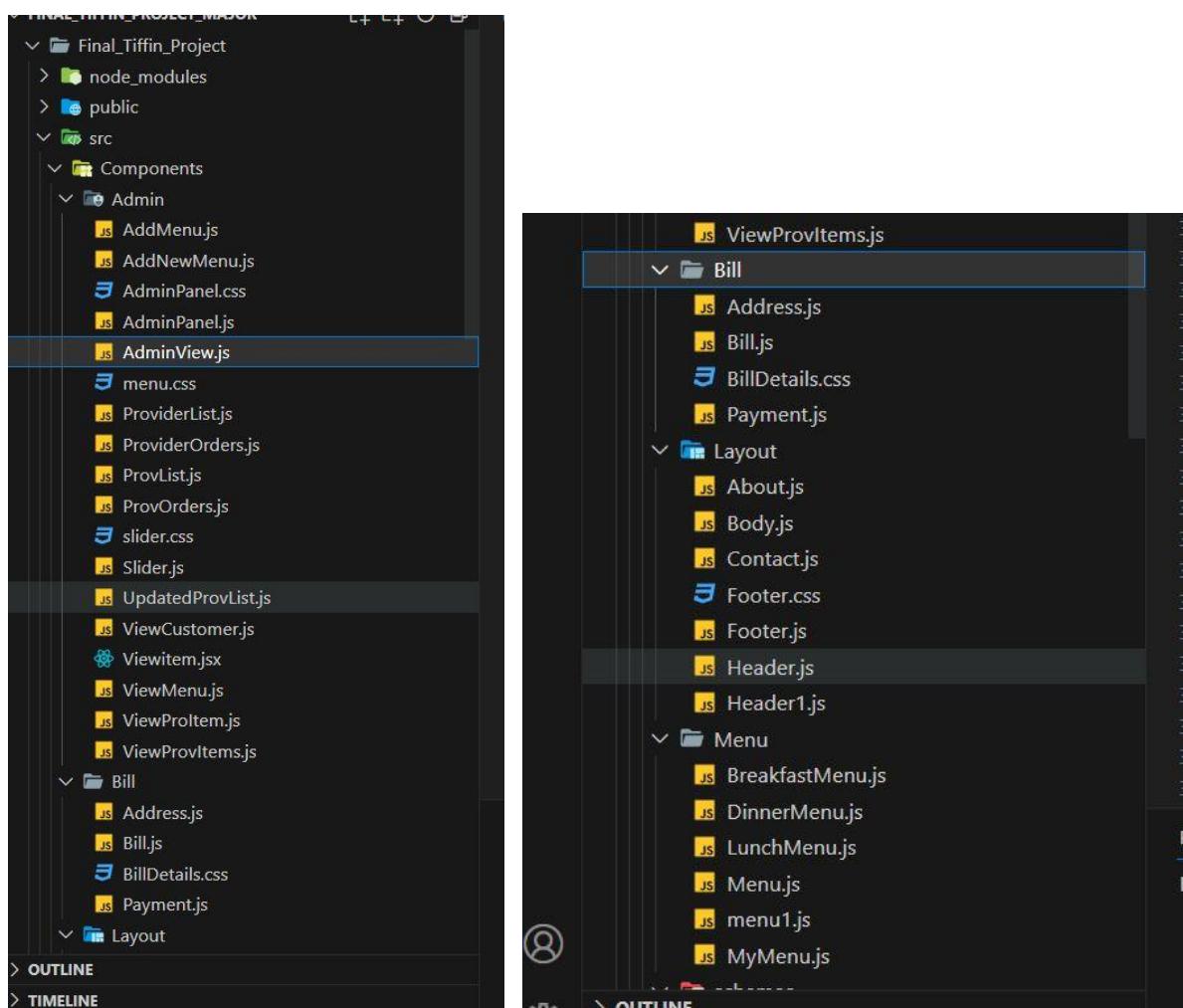
Database for the Ratings given by the customers to the providers

user	comments	rating	pack_id	provider
Vijay Madan	nice food provided	2	ajay@gmail.com	Ajay Grover
Vijay Madan	nice food provided	3	meenakumari@gmail.com	Meena Kumari
Vatan Rana	food is fabulus	2	ajay@gmail.com	Ajay Grover
Vatan Rana	service is good	4	vikas@gmail.com	Vikas Bhuvan
Vatan Rana	raman has given good services	5	raman@gmail.com	Raman Bhutani
Aman Patwal	nice provider service	3	meghadutt@gmail.com	Megha Dutt
Vijay Madan	nice	4	meghadutt@gmail.com	Megha Dutt
Anjali Sharma	good it is	4	meenakumari@gmail.com	Meena Kumari
Anjali Sharma		4	meghadutt@gmail.com	Megha Dutt
Anjali Sharma	not good	2	anuradha@gmail.com	Anuradha Rani
Anjali Sharma	bad	1	anuradha@gmail.com	Anuradha Rani
Rekha Gupta	ok ok	2	meghadutt@gmail.com	Megha Dutt
Jaspreet Bhutti	it is sooo good	5	meghadutt@gmail.com	Megha Dutt
Anjali Sharma	nice food	4	raman@gmail.com	Raman Bhutani
Jaspreet Bhutti	Not good	2	meenakumari@gmail.com	Meena Kumari
Vatan Rana	nice food provided	1	ajay@gmail.com	Ajay Grover
Vatan Rana	hygenic food	3	shikha@gmail.com	Shikha Rana
Rahul Saini	nice food provided	1	ajay@gmail.com	Ajay Grover
Rahul Saini	Good Quality food	4	meghadutt@gmail.com	Megha Dutt
Rahul Saini	nice food provided	3	meenakumari@gmail.com	Meena Kumari
Anshika Ladwani	hygenic food	4	vikas@gmail.com	Vikas Bhuvan
Rahul Saini	nice food provided	3	anuradharani@gmail.com	Anuradha Rani
Rahul Saini	hygenic food	4	raman@gmail.com	Raman Bhutani
Murli Basu	nice food provided	3	suman@gmail.com	Suman Sureka
Vatan Rana	hygenic food	4	vikas@gmail.com	Vikas Bhuvan
Vatan Rana	nice food provided	3	suman@gmail.com	Suman Sureka
Murli Basu	hygenic food	3	shikha@gmail.com	Shikha Rana
Anshika Ladwani	nice food provided	1	ajay@gmail.com	Ajay Grover
Reena Chaudhary	hygenic food	4	raman@gmail.com	Raman Bhutani
Anshika Ladwani	Good Quality food	4	meghadutt@gmail.com	Megha Dutt
Vatan Rana	nice food provided	3	anuradharani@gmail.com	Anuradha Rani
Vatan Rana	hygenic food	4	raman@gmail.com	Raman Bhutani
Reena Chaudhary	hygenic food	4	vikas@gmail.com	Vikas Bhuvan
Murli Basu	nice food provided	3	anuradharani@gmail.com	Anuradha Rani
Reena Chaudhary	nice food provided	3	suman@gmail.com	Suman Sureka
Anshika Ladwani	hygenic food	3	shikha@gmail.com	Shikha Rana
Rekha Gupta	nice food provided	1	ajay@gmail.com	Ajay Grover
David Coulthard	Good Quality food	4	meghadutt@gmail.com	Megha Dutt
Vatan Rana	Good Quality food	4	meghadutt@gmail.com	Megha Dutt
Vatan Rana	nice food provided	3	meenakumari@gmail.com	Meena Kumari
David Coulthard	nice food provided	3	meenakumari@gmail.com	Meena Kumari
Rekha Gupta	hygenic food	4	vikas@gmail.com	Vikas Bhuvan
David Coulthard	nice food provided	3	anuradharani@gmail.com	Anuradha Rani

The login page for the admin, service providers and customers



Project Directory



ChatBot for customers for their queries

The image shows the 'GharKaKhaana' website. The header includes the logo 'GharKaKhaana' and navigation links for 'Home', 'About', 'Providers', 'Contact', 'LogOut', and a shopping cart icon. The main content features a large image of a meal on a plate with the text 'ENJOY YOUR HEALTHY DELICIOUS FOOD'. Below it is the slogan 'Nothing more satisfying than "Ghar Ka Khana"' and buttons for 'Order Now!' and 'Watch Video'. To the right, there is a live chat window titled 'HelpBox Online' with a message from the bot: 'Dear Customer, you will receive order within 30 - 45 mins of your order time. Thank you for your patience'. The footer contains the text 'Chatbot by Kommunicate.io' and a red feedback button.

New User Sign Up

GharKaKhaana

Category

select the category

User Name

Enter username

Password

Enter your Password

Confirm Password

Confirm Password

Contact Number

Enter your MobileNumber

Email

Enter your email

Select Your Gender

Male

Female

City

Enter your City

Address

Enter your Address

Profile Image

Choose file No file chosen

Submit

Admin view – Admin can edit, delete the information of service providers

GharKaKhaana

Log-Out

Service Providers Customers

Username	Email Address	Gender	Mobile	Category	City	Address	User Image	Edit Item	Delete	View Item
Ajay Grover	ajay@gmail.com	Male	8756485836	provider	Mysuru	Sayyaji Rao Rd, Mysuru, Karnataka 570012		<button>Edit</button>	<button>Delete</button>	<button>View Item</button>
Megha Dutt	mehadutt@gmail.com	Female	78448473837	provider	lucknow	L D A Colony,lucknow(U.P.) ,226012		<button>Edit</button>	<button>Delete</button>	<button>View Item</button>
Meena Kumari	meenakumari@gmail.com	Female	78447483438	provider	Panchkula	Rajeev Colony, Sector 17, Panchkula(Haryana)		<button>Edit</button>	<button>Delete</button>	<button>View Item</button>
Vikas Bhuvan	vikas@gmail.com	Male	786847483787	provider	Kaithal	Maharaja Aggarsain Chowk, Kaithal, Haryana, 136027		<button>Edit</button>	<button>Delete</button>	<button>View Item</button>
Anuradha	anuradha@gmail.com	Female	78564846386	provider	mohali	SCF 78, Phase 5, Mohali 160059 India		<button>Edit</button>	<button>Delete</button>	<button>View Item</button>

When customer will login

The screenshot shows a web browser window for 'GharKaKhaana'. At the top, there is a navigation bar with links for Home, About, Providers, Contact, and Logout. A search bar is present with the placeholder 'enter your city' and a magnifying glass icon. Below the search bar is a location pin icon.

The main content area displays five service providers in a grid:

- Provider Ajay Grover**: Avg Rating 2★, 8756485836, ajay@gmail.com, Mysuru. View items button.
- Provider Megha Dutt**: Avg Rating 4★, 78448473837, meghadutt@gmail.com, lucknow. View items button.
- Provider Meena Kumari**: Avg Rating 3★, 78447483438, meenakumari@gmail.com, Panchkula. View items button.
- Provider Vikas Bhuvan**: Avg Rating 4★, 786847483787, vikas@gmail.com, Kaitthal. View items button.
- Provider Anuradha Rani**: Avg Rating 3★, 78564846386, anuradha@gmail.com, mohali. View items button.

On the right side of the provider list, there are two red circular buttons with white icons: one for messaging and one for navigation.

Service Provider Panel that can add tiffins and edit all the items

The screenshot shows a web browser window for 'GharKaKhaana'. At the top, there is a navigation bar with links for My Orders and Logout. Below the navigation bar, the page title is 'Add New Items'.

The main content area has a breadcrumb navigation: Home / items panel.

The form fields for adding a new item are as follows:

- Tiffin type**: A dropdown menu with the placeholder 'Choose...'. A small downward arrow icon is at the end of the dropdown.
- Item name**: A text input field with the placeholder 'Enter Name of item'.
- Description**: A text input field with the placeholder 'Describe about product'.
- Price**: A text input field with the placeholder 'Price'.
- Item Image**: A file upload section with a 'Choose file' button and a preview image placeholder 'No file chosen'.

Service Provider – Add, Delete Option

GharKaKhaana



My Orders

LogOut

Item name	Item Details	Item Price	Item Category	item Image	Edit Item	Delete
Allu Paratha	made with pahadi allu	40	breakfast		Edit	Delete
Gobi Paratha	Fresh Broccoli with tandoori masala	50	breakfast		Edit	Delete
Cholle Bhature	Amritsari Style	60	lunch		Edit	Delete
Panner Chulcha	Kurkura Amritsari Style	50	lunch		Edit	Delete
Rajma Cholle	jammu rajma with mdh tadka	120	dinner		Edit	Delete

The last order from the particular service provider and the previous order list

Aman Patwal Orders

Product Name	Product Details	Product Category	Product Qty	Product Price	Provider	Product Image
Rajma Cholle	jammu rajma with mdh tadka	dinner	1	120	Ajay Grover	
Allu Paratha	made with pahadi allu	breakfast	1	40	Ajay Grover	
Panner Chulcha	Kurkura Amritsari Style	lunch	1	50	Ajay Grover	
Panner Chulcha	Kurkura Amritsari Style	lunch	1	50	Ajay Grover	
Cholle Bhature	Amritsari Style	lunch	1	60	Ajay Grover	

Customer Cart

GharKaKhaana Jaspreet Bhutti

Customer Cart

Product Id	Product Image	Product Name	Product Price	Product Quantity	Inc/Dec	Delete
169		Beetroot Juice	78	Multivitamin With Citrus	<button>+ 3 -</button>	<button>Delete</button>
174		Moong Dal Halwa	58	made with shakkar	<button>+ 1 -</button>	<button>Delete</button>
181		Chicken Pasta	120	Chinese Style	<button>+ 1 -</button>	<button>Delete</button>

Total Payable Amount: ₹412

Buy Now Share Print

Personalised Meal

GharKa Khaana Jaspreet Bhutti

Card No
7895632320626516

CVV
243

Personalised Instructions for Service Provider
less oil

Total Amount
412

70% discount applied

Discounted Price
123.60000000000002

Submit Bill Generate

First User 70% Discount Offer

GharKa Khaana Jaspreet Bhutti

Customer Name

Card No

CVV

Personalised Instructions for Service Provider

Total Amount

70% discount applied

Discounted Price

Happy Hours Discount offer – 50% off between 1:00 pm to 4:00 pm

GharKa Khaana Jaspreet Bhutti

Customer Name

Card No

CVV

Personalised Instructions for Service Provider

Total Amount

50% discount applied

Discounted Price

Ratings and feedback to the service providers by the customers

Have Your Ratings Here:
★★★★★

Your Feedback is Important for Us:
comment here...

Add Review

Customer Name
Vijay Madan
Provider
ajay@gmail.com
Ajay Grover
 2★★★★★
nice food provided

Customer Name
Vijay Madan
Provider
meenakumari@gmail.com
Meena Kumari
 3★★★★★
nice food provided

Customer Name
Vatan Rana
Provider
ajay@gmail.com
Ajay Grover
 2★★★★★
food is fabulus

Customer Name
Vatan Rana
Provider
vikas@gmail.com
Vikas Bhuvan
 4★★★★★
service is good

< >

↑ ↓

Total Bill Generation and Invoice

GharKa Khaana

Jaspreet Bhutti

INVOICE
GHAR KA KHAANA
Gurgaon, Sector 10
Phone: +91-9560576294

Invoice No: 94 Invoice Date: Mon May 15 2023

Customer Name : Jaspreet Bhutti

Shipment Address : #121

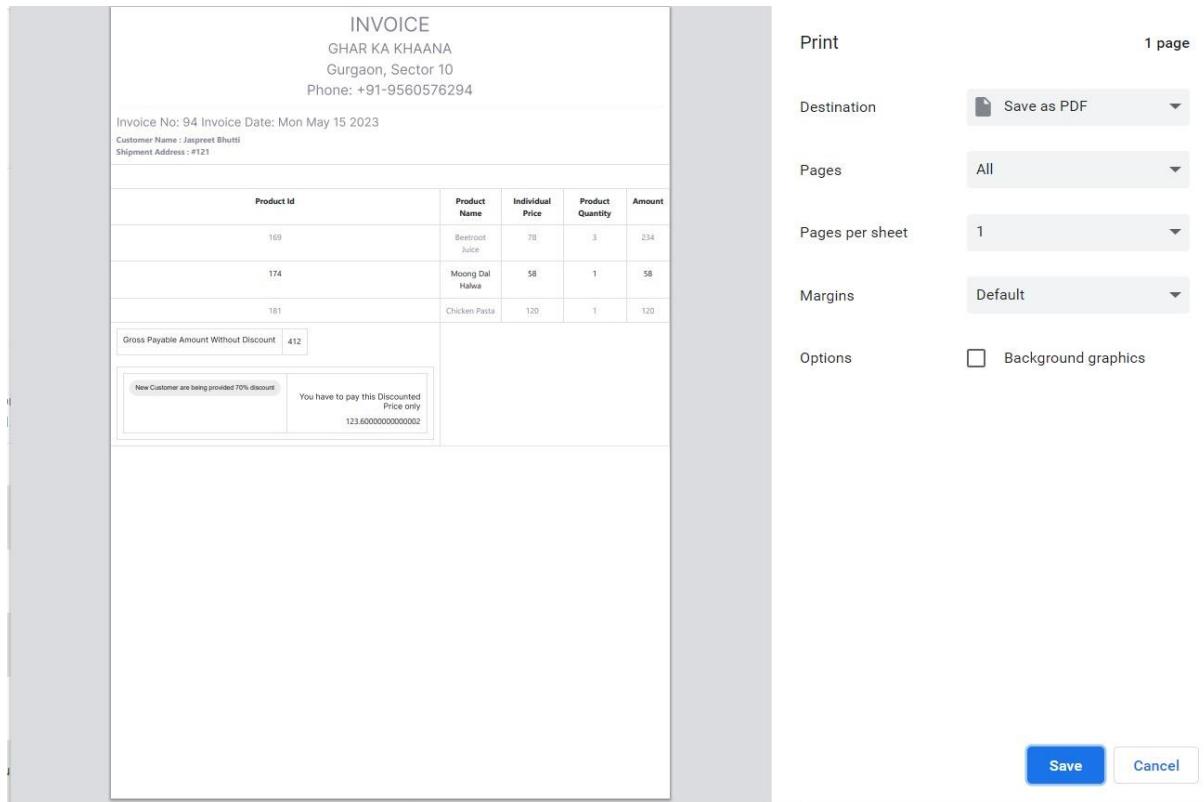
Product Id	Product Name	Individual Price	Product Quantity	Amount
169	Beetroot Juice	78	3	234
174	Moong Dal Halwa	58	1	58
181	Chicken Pasta	120	1	120

Gross Payable Amount Without Discount 412

New Customer are being provided 70% discount

You have to pay this
Discounted Price only
123.60000000000002

We can print the bill by using Print



DESIGN METHODOLOGY

Server

Node.js server code using the Express framework. It sets up a server that connects to a MySQL database and handles various routes for signup, login, uploading files, retrieving data, and performing CRUD operations on the database.

1. Import necessary modules:
 - **express**: Fast, unopinionated, minimalist web framework for Node.js
 - **path**: Provides utilities for working with file and directory paths
 - **cors**: Cross-Origin Resource Sharing middleware to enable CORS for the server
 - **mysql**: MySQL client for Node.js
 - **body-parser**: Middleware to parse request bodies
 - **multer**: Middleware for handling file uploads
 - **jsonwebtoken**: JSON Web Token implementation for creating and verifying tokens

- **bcrypt**: Library for hashing passwords
 - **cookie-parser**: Middleware for parsing cookies
 - **express-session**: Middleware for managing sessions
2. Create an instance of the Express application.
 3. Set up middleware:
 - Enable CORS using `app.use(cors())`
 - Serve static files from the "public" directory using `app.use("/assets", express.static(__dirname + "/public"))`
 - Parse request bodies as JSON using `app.use(bodyParser.json())`
 - Parse URL-encoded request bodies using `app.use(bodyParser.urlencoded({ extended: true }))`
 - Parse cookies using `app.use(cookieParser())`
 - Serve uploaded files from the "public/uploads" directory using `app.use("/uploads", express.static(path.join(__dirname, "/public")))`
 - Configure session using `app.use(session(options))`
 4. Create a MySQL connection using `mysql.createConnection` and connect to the database using `conn.connect`.
 5. Define a middleware function `verifyJWT` for verifying JSON Web Tokens sent in the request headers.
 6. Set up various routes for handling different functionalities:
 - **/sign_up**: Handle signup requests, hash the password using bcrypt, and insert user data into the database.
 - **/userget/:id**: Fetch user data from the database based on the provided username.
 - **/saveitem**: Handle requests for adding tiffin details, upload file, and insert data into the database.
 - **/getusers**: Fetch all user data from the database.
 - **/showitem**: Fetch tiffin details for a specific provider from the database.
 - **/itemdelete/:id**: Delete tiffin details from the database based on the provided ID.
 - **/itemedit/:id**: Fetch tiffin details for editing based on the provided ID.
 - **/updateitem**: Update tiffin details in the database.
 - **/deleteuser/:id**: Delete a user from the database based on the provided ID.
 - **/updateuser/:id**: Update user details in the database based on the provided ID.

- **/providers**: Fetch all providers from the database.
- **/add_provrating/:id**: Update the average rating for a provider in the database based on the provided ID.
- **/searchprovider/:id**: Search for providers based on the provided city.
- **/login**: Handle login requests, verify the password using bcrypt, and generate a JSON Web Token for authentication.
- **/isUserAuth**: Verify if the user is authenticated using the **verifyJWT** middleware.

ADMIN

Admin Panel

It is a part of an admin panel application that allows the admin to manage users' and service provider's data.

1. handleTable1Click and handleTable2Click: These functions are triggered when buttons for switching between provider and customer tables are clicked. They update the **activeTable** state variable accordingly.
2. Formik Setup: The **useFormik** hook is used to set up form handling. It defines the **initialValues** object and provides form-related functions and values.
3. getUsers Function: This function makes an HTTP POST request using Axios to fetch the list of users from the server and updates the **users** state variable.
4. useEffect for Fetching Users: Another **useEffect** hook is used to fetch the users' data from the server when the component mounts or when the **users** state variable changes. It calls the **getUsers** function and updates the **users** state.
5. delUser Function: This function is triggered when a delete button is clicked. It sends an HTTP POST request to the server to delete a user based on the provided ID. It then calls the **getUsers** function to update the user list.
6. EditUser Function: This function is called when an edit button is clicked for a specific user. It sets the **editUser** state variable with the selected user's data, allowing it to be displayed in an edit form.
7. View Function: This function is triggered when a view button is clicked for a user. It sets the **proId**, **cusId**, and **cusName** state variables based on the button's data, which are used to display additional information.
8. Render: The component's render function returns JSX elements that represent the admin panel. It includes a header, buttons for switching tables, a logout button, and a table that displays the user data based on the selected table. Buttons for editing, deleting, and viewing users are also included.

SERVICE PROVIDER

AddMenu

It is responsible for adding new items to a menu and managing existing items.

1. Defining the **AddMenu** component as a functional component.
2. Declaring and initializing state variables using the **useState** hook.
3. Extracting values from the **NoteContext** and local storage.
4. Defining an object **tiffin** to hold the form data for adding a new menu item.
5. Implementing an event handler **handleChange** to update the **tiffin** state based on user input.
6. Implementing an event handler **handleFile** to handle the selection of an image file for the menu item.
7. Implementing a form validation function **validForm** to check if all required fields are filled.
8. Defining a function **getProduct** to fetch the existing menu items from the server.
9. Using an **useEffect** hook to call **getProduct** when the component mounts.
10. Implementing an event handler **addtiffin** to add a new menu item to the server.
11. Implementing an event handler **delitem** to delete a menu item from the server.
12. Implementing an event handler **updateItem** to update an existing menu item on the server.

Tiffin Description

This is a React component that manages a form for adding/editing/deleting food items. The component uses several external libraries, including React Bootstrap, Axios, and React Router.

The component defines several state variables using the **useState** hook to manage the form inputs and the list of food items. It also defines several functions that update the state variables when the user interacts with the form.

The component uses the **useEffect** hook to load the list of food items from the server when the component mounts.

When the user submits the form to add a new food item, the component sends a POST request to the server using Axios with the form data in a FormData object. If the request is successful, the component updates the list of food items by setting the **product** state variable.

The component also includes functions to delete and edit food items, which send DELETE and GET requests to the server using Axios. When the server responds, the component updates the list of food items by setting the **product** state variable.

Finally, the component renders a form using React Bootstrap, as well as a table that displays the list of food items. The form includes input fields for the food type, item name, details, price, and image, as well as buttons for adding and updating items.

CUSTOMER

View Menu

1. The component defines three state variables using the **useState** hook: **breakfast**, **lunch**, and **dinner**. These variables will hold the menu items for breakfast, lunch, and dinner, respectively.
2. The component uses the **useContext** hook to access the values from the **NoteContext** context. It retrieves the **id**, **pop**, and **name** values from the context.
3. The component utilizes the **useEffect** hook to fetch menu data from the server when the **contextId** value changes. It makes HTTP GET requests using Axios to retrieve the breakfast, lunch, and dinner menu items for the given **contextId**. The retrieved data is then stored in the respective state variables using the **setBreakfast**, **setLunch**, and **setDinner** functions.
4. The **addCart** function is an event handler for the "Add to Cart" button. It sends an HTTP GET request to add the selected item to the user's cart. The request includes the **id** of the item and a token retrieved from **localStorage**. If the request is successful and the response data is not empty, the **menuContext.setCount** function is called to update the count of items in the cart.
5. The component renders the menu items based on the retrieved data. It conditionally renders the menu items only if the **contextName** is true. Inside each menu section (breakfast, lunch, dinner), it maps over the corresponding array of items and renders each item's details such as image, name, details, category, price, and an "Add to Cart" button.

Shopping

1. Inside the component, it initializes state variables using the **useState** hook for **product**, **gross**, **user**, and **remCart**.
2. It retrieves some values from the local storage such as **csname**, **con_name**, and **cartValue**.
3. The component defines a function called **showCart**, which makes an HTTP GET request to retrieve the cart items from the server. It sets the retrieved data in the **product** state variable and calculates the total gross amount. The **showCart** function is called once during the component's initialization.
4. The component defines functions **incQty**, **decQty**, and **delCart**, which handle the respective operations of increasing quantity, decreasing quantity, and deleting items

from the cart. These functions make HTTP GET requests to update the cart items on the server and update the local state variables accordingly.

5. The **useEffect** hook is used to perform specific actions when the component mounts. In this case, it scrolls to the top of the page and retrieves the user's username and cart items from the server.
6. The **Nav** function is a callback for the buy button, which navigates to the payment page if the user is logged in; otherwise, it alerts the user to log in and navigate to the login payment page.
7. It renders a table displaying the cart items, including product details, quantity, and buttons for incrementing, decrementing, and deleting items.
8. The total payable amount is displayed below the table.

Payment

1. Payment Component:

- It defines multiple state variables using the **useState** hook to manage the component's state. These variables include **customername**, **password**, **instructions**, **amount**, **disAmount**, **show**, **cardno**, **cardNoError**.
- It retrieves values from **localStorage** using **localStorage.getItem()** and sets them as initial state values for some of the state variables.
- It utilizes the **useContext** hook to access the context provided by the **NoteContext** component.

2. Event Handlers:

- The component defines several event handlers like **handleChange**, **handleChange1**, **handleChange2**, and **mysubmit** to handle user input changes and form submissions.
- These event handlers update the corresponding state variables based on user input and perform validation for the card number.

3. useEffect Hook:

- The component utilizes the **useEffect** hook to perform side effects.
- The **useEffect** is triggered when the **amount** state variable changes. It fetches discount information from a specified URL using **Axios** and updates the **disAmount** state variable accordingly. It also sets the value of **show** state variable based on specific conditions.

4. Render Method:

- The rendered elements include a form with various input fields like customer name, card number, CVV, personalized instructions, and total amount.

- The form elements are connected to their respective state variables for two-way data binding.
- Conditional rendering is performed based on the **show** state variable to display discount-related information.

Bill

React component named Bill that generates an invoice for a customer's purchase

1. Bill Component:

- It initializes state variables such as "mylist" to store the generated bill data, "gross" to store the total amount payable, and "billno" to store the bill number.
- It retrieves stored items, customer name, and discount price from local storage.
- It creates a ref using the useRef hook to reference the table for printing purposes.

2. mysubmit Function:

- The mysubmit function is an asynchronous function that is triggered when the "Generate Bill" button is clicked.
- It sends an HTTP POST request to the specified URL (**<http://localhost:4700/bill>**) using Axios.
- The response data is then stored in the "mylist" state variable using the setList function.
- The bill number is extracted from the response data and stored in the "billno" state variable.
- The total amount payable ("gross") is calculated by iterating over the response data and summing the product of purchase price and purchase quantity.
- The "gross" state variable is updated with the calculated value.

3. Render Method:

- A ReactToPrint component is rendered, which triggers the printing functionality when clicked and references the componentRef for printing content.
- A Container component from react-bootstrap is rendered to contain the form elements.
- A Form component is rendered, and inside it, a "Generate Bill" button is displayed, which triggers the mysubmit function when clicked.
- A Table component is rendered and ref is assigned to it using the useRef hook for printing purposes.
- The table includes table headers for various details such as product ID, product name, individual price, product quantity, and amount.

- Inside the table body, the mylist state variable is mapped to generate table rows for each product.
- The total amount payable ("gross") is displayed in a table row at the bottom of the table.
- If a discount price is available, it is displayed as a chip and the discounted price is shown.

4.5 PERFORMANCE EVALUATION

Customer Satisfaction: Monitor customer feedback and ratings to evaluate overall customer satisfaction. Regularly assess customer reviews and ratings to identify areas for improvement and address any concerns promptly. Measure customer retention rates and repeat orders as indicators of satisfaction and loyalty.

Delivery Efficiency: Evaluate the efficiency and timeliness of your delivery system. Monitor delivery times, track any delays, and optimize delivery routes to ensure meals reach customers within the expected time frame. Assess customer feedback on delivery experiences and use it to enhance the delivery process.

Home Chef Performance: Assess the performance of home chefs based on various parameters such as food quality, consistency, adherence to standards, and customer feedback. Implement a rating system for home chefs and conduct regular performance evaluations. Provide constructive feedback, training, and support to improve their skills and maintain high-quality standards.

Order Accuracy: Measure the accuracy of order fulfillment and ensure that meals are prepared as per customer preferences and dietary requirements. Track any incidents of incorrect or missing items in orders and work towards reducing such occurrences.

Operational Efficiency: Evaluate the efficiency of your operational processes, including order management, inventory control, and coordination between home chefs and delivery personnel. Identify any bottlenecks or areas for improvement and implement measures to streamline operations and minimize errors.

Financial Performance: Analyse the financial aspects of your tiffin service, including revenue, costs, and profitability. Track key financial metrics such as average order value, cost per meal, and profit margins. Conduct regular financial reviews to ensure sustainable business growth and identify opportunities for cost optimization.

Growth and Expansion: Assess the growth and expansion of your tiffin service project. Track key performance indicators such as customer acquisition rates, market penetration, and geographic expansion. Evaluate the success of marketing strategies and initiatives to attract new customers and retain existing ones.

Technology and System Performance: Monitor the performance of your website and technological infrastructure. Evaluate factors such as website uptime, response times, order

processing efficiency, and system stability. Conduct regular audits and implement necessary upgrades to ensure a smooth and reliable user experience.

4.6 FOCUS PARAMETERS

FINANCIAL VIABILITY

- Target market is primarily students and young working professionals so the prices will be cheaper
- The quality of the food and service is exceptional to ensure customer satisfaction and loyalty. Consistency in taste, quality will be crucial to building a loyal customer base.
- Our website is user-friendly and efficient

ORIGINALITY/INNOVATIVENESS

- Approach of connecting customers to home chefs and promoting women's empowerment through the use of culinary skills.
- Focus on providing wholesome, homemade meals at a minimum price
- Offering personalized, affordable, and healthy meal options through the use of technology
- Inclusion of Happy Hours with 50% off offers to attract and retain customers
- Providing a convenient and flexible job opportunity for home chefs

CUSTOMER ACCEPTABILITY

- Highly acceptable to customers, especially students and young working professionals
- The tiffin service offers homemade cooked food, which is different from the ready-made food available in the market, and this will attract customers looking for healthier and more wholesome options.
- The use of local home chefs to prepare the meals will add a personalized touch to the service and attract customers looking for authentic home-cooked meals.
- Convenience of ordering through the internet, personalized meal options based on preferences and geolocation, and the inclusion of Happy Hours with 50% off offers

USEFULNESS TO SOCIETY

- Provides access to healthy and wholesome meals
- Provides job opportunities for home chefs
- Encourages healthy eating habits
- Provides convenience
- Promotes sustainability

SUSTAINABILITY

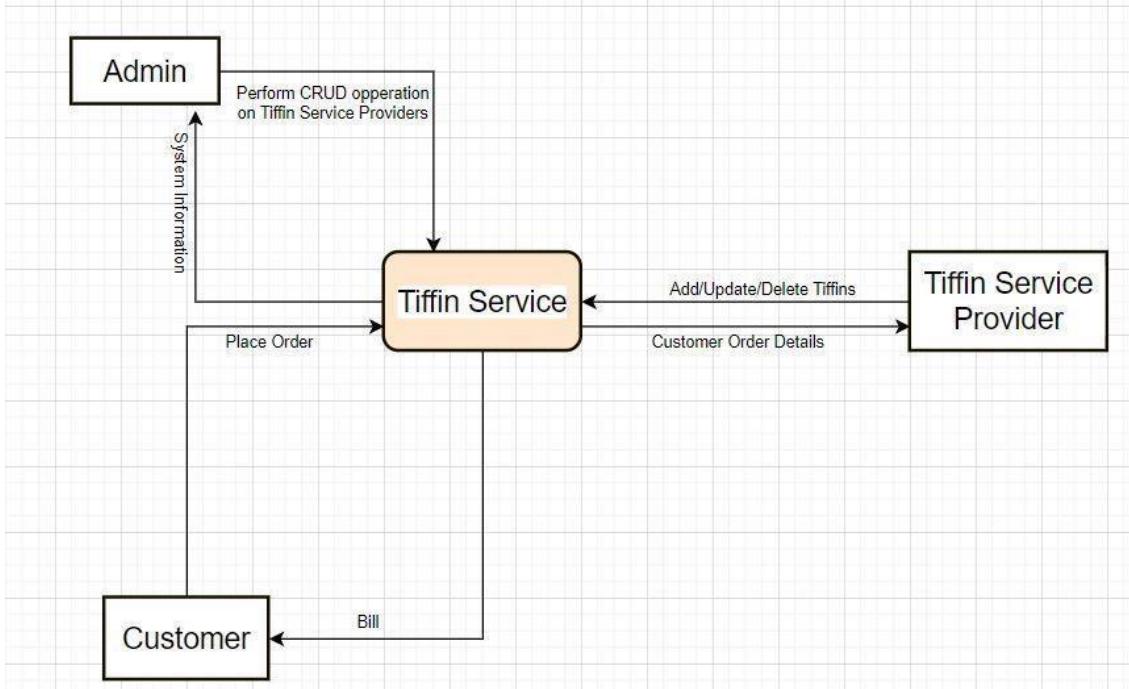
- By encouraging home chefs, mostly housewives
- Promoting homemade meals
- The project can contribute to reducing food waste and encouraging sustainable food consumption
- By serving meals based on the customer's location

STRUCTURED APPROACH

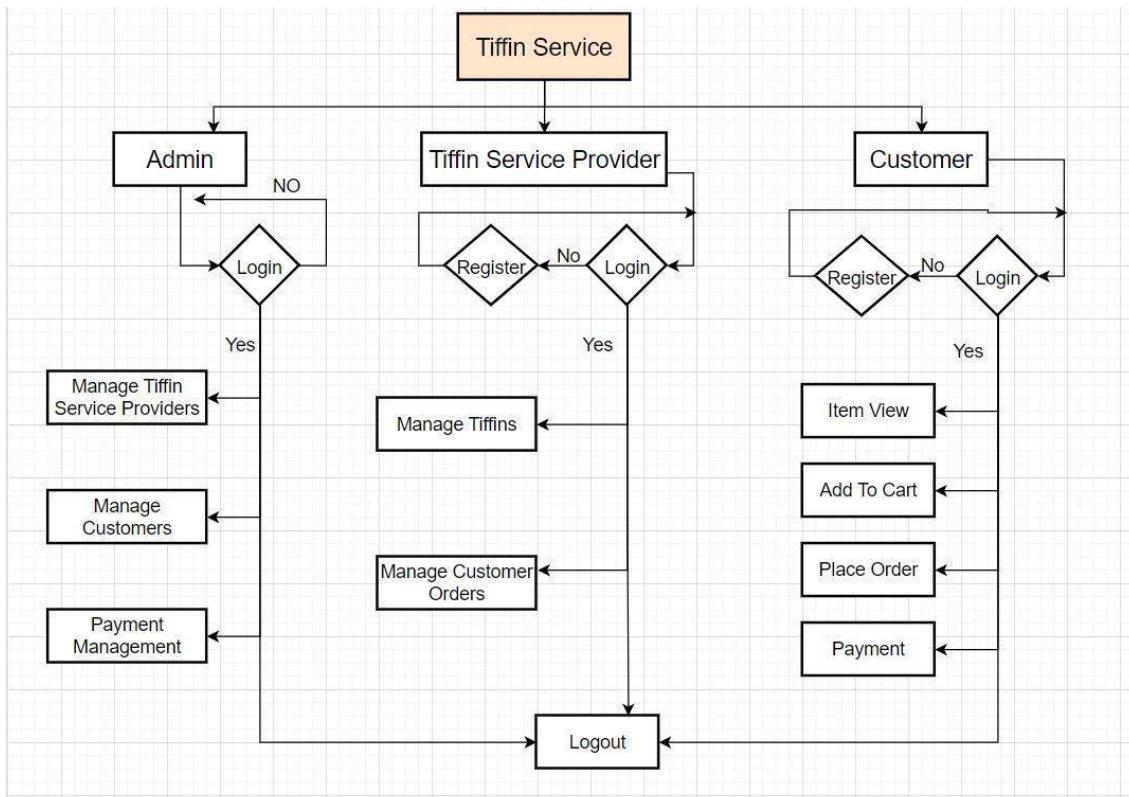
- **Market research:** Conduct market research to understand the demand for tiffin services in the target area, the competition, and the preferences of the target audience.
- **Business planning:** Based on the market research, develop a business plan that outlines the business model, target market, revenue streams, marketing strategies, and financial projections.
- **Website development:** Hire a team of developers to create a user-friendly and visually appealing website that allows customers to order homemade meals online from home chefs.
- **Chef recruitment:** Create a network of home chefs who are interested in providing homemade meals for customers. This could involve creating a screening process for chefs, training them on food safety and packaging, and setting up a system for chefs to receive orders and payments.
- **Marketing and promotions:** Develop a marketing plan to promote the website and attract customers. This could include social media marketing, influencer partnerships, and targeted advertising.
- **Operations and logistics:** Develop a system for order management, delivery, and customer service. This could involve partnering with delivery services or setting up an in-house delivery team.
- **Performance tracking and improvement:** Track key performance indicators such as customer satisfaction, order volume, and revenue, and use the data to continuously improve the website and business operations.

4.7 FLOW CHART

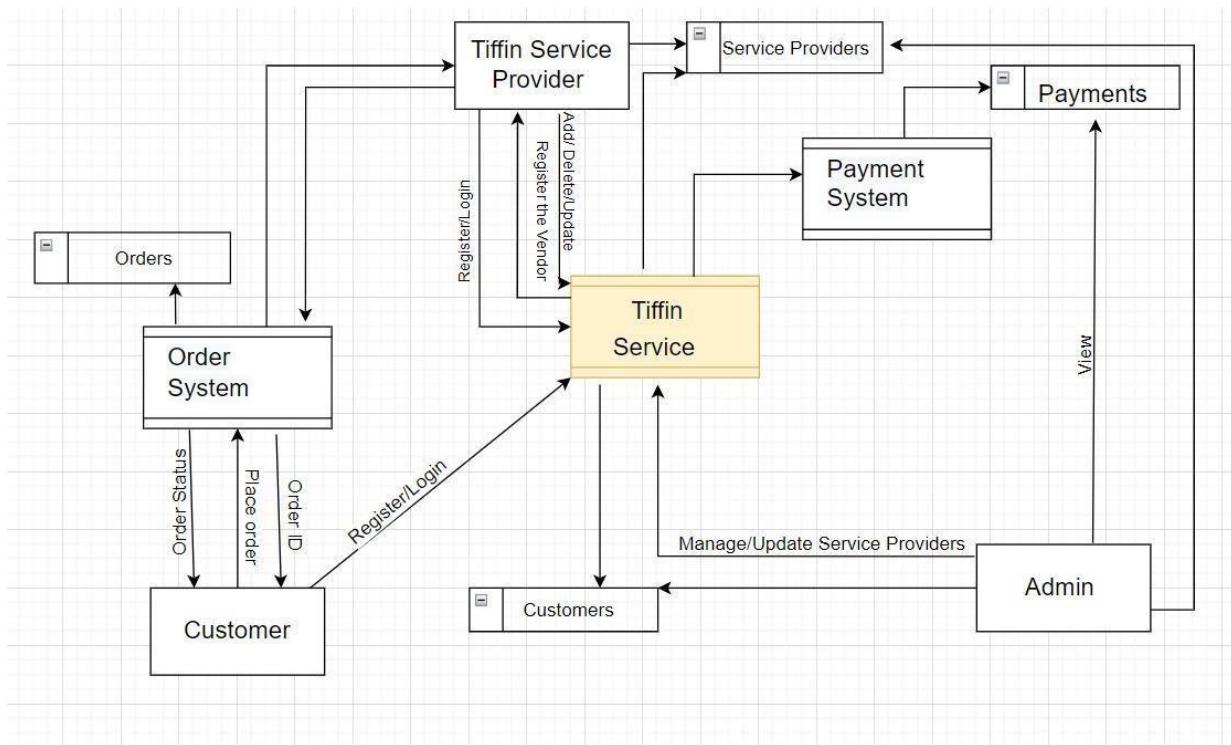
DFD LEVEL 0



DFD LEVEL 1



DFD LEVEL 2



CHAPTER 5

TESTING

Software testing is the process of assessing and confirming that a software application or product performs as intended. Testing has advantages such as preventing problems, lowering development costs, and enhancing performance.

There are many different types of software tests, each with specific objectives and strategies:

- **Acceptance testing:** Verifying whether the whole system works as intended.
- **Integration testing:** Ensuring that software components or functions operate together.
- **Unit testing:** Validating that each software unit performs as expected. A unit is the smallest testable component of an application.
- **Functional testing:** Checking functions by emulating business scenarios, based on functional requirements. Black-box testing is a common way to verify functions.
- **Performance testing:** Testing how the software performs under different workloads. Load testing, for example, is used to evaluate performance under real-life load conditions.
- **Regression testing:** Checking whether new features break or degrade functionality. Sanity testing can be used to verify menus, functions and commands at the surface level, when there is no time for a full regression test.
- **Stress testing:** Testing how much strain the system can take before it fails. Considered to be a type of non-functional testing.
- **Usability testing:** Validating how well a customer can use a system or web application to complete a task.

In each case, validating base requirements is a critical assessment. Just as important, exploratory testing helps a tester or testing team uncover hard-to-predict scenarios and situations that can lead to software errors.

Even a simple application can be subject to a large number and variety of tests. A test management plan helps to prioritize which types of testing provide the most value – given available time and resources. Testing effectiveness is optimized by running the fewest number of tests to find the largest number of defects.

TEST STRATEGY

A test strategy is a summary of the software development cycle's testing methodology. To achieve organizational high-level objectives from the standpoint of quality assurance, test strategies are meant to give a logical deduction from real test operations.

TEST PLAN

The test plan is a living document. An accurate and up-to-date Test Plan document

is essential to the success of any testing effort. A test plan is essentially a roadmap for how a project's testing activities will be carried out.

TEST STRATEGY VS TEST PLAN

Test Plan is a document that describes the scope, objective and weight on software testing task whereas Test Strategy describes how testing needs to be done.

TEST PLAN FOR OUR GHAR KA KHAANA WEBSITE

Objective:

The objective of testing the tiffin service website is to ensure that the website is fully functional, easy to use, and meets the requirements specified by the stakeholders and the consumers. The testing will cover all aspects of the website, including the ordering process, billing process and login/signup process.

Testing Approach:

The testing will be conducted using both manual and automated testing techniques. The testing will focus on functional, usability, and performance testing.

Test Environment:

The testing will be conducted on the following environment:

Browsers: Chrome, Firefox,

Safari, and Edge

Operating System: Windows

Devices: Desktop

Test Scenario:

Functionality Testing:

- Test if the website is able to take the user's order for a tiffin service
- Test if the website allows the user to select the type of tiffin service (Veg/Non-veg) and quantity
- Test if the website allows the user to add any special instructions or notes
- Test if the website shows the total cost of the order
- Test if the website allows the user to select the payment method (Debit card, Credit card, or Online banking)
- Test if the website allows the user to enter the payment details

- Test if the website shows the payment confirmation
- Test if the website allows the user to select the delivery address
- Test if the website shows the estimated delivery time
- Test if the website allows the user to track the delivery status
- Test if the website allows the user to cancel the order

Acceptance Criteria: The website should perform all the above functions without any errors.

Usability Testing:

- Test if the website is user-friendly and easy to navigate
- Test if the website has a consistent layout and design
- Test if the website is responsive on different devices and browsers
- Test if the website has proper error messages and alerts
- Test if the website has clear instructions for the ordering process

Acceptance Criteria: The website should be easy to use and navigate without any errors.

Performance Testing:

- Test if the website loads quickly on different devices and browsers
- Test if the website can handle multiple user requests simultaneously
- Test if the website can handle peak traffic loads
- Test if the website is able to provide a smooth user experience

Acceptance Criteria: The website should load quickly and respond promptly to user requests without any errors.

Security Testing:

- Test if the website is secure and protects user's personal and financial information
- Test if the website uses HTTPS protocol for secure communication
- Test if the website encrypts user's personal and financial information
- Test if the website has proper authentication and authorization mechanisms
- Acceptance Criteria: The website should ensure the security of user's personal and financial information.

Conclusion:

Testing the tiffin service website is crucial to ensure that it meets the expected quality standards and is user-friendly. The testing scenarios mentioned above will help ensure that the website functions correctly and meets all the acceptance criteria.

ACCEPTANCE CRITERIA

Functionality Testing:

- The user should be able to place an order for a tiffin service without any errors.
- The user should be able to select the type of tiffin service (Veg/Non-veg) and quantity.
- The user should be able to add any special instructions or notes.
- The website should show the total cost of the order accurately.
- The user should be able to select the payment method (Debit card, Credit card, or Onlinebanking) without any errors.
- The user should be able to enter the payment details without any errors.
- The website should show the payment confirmation accurately.
- The user should be able to select the delivery address without any errors.
- The website should show the estimated delivery time accurately.
- The user should be able to track the delivery status without any errors.
- The user should be able to cancel the order without any errors.

Usability Testing:

- The website should be easy to use and navigate without any errors.
- The website should have a consistent layout and design.
- The website should be responsive on different devices and browsers.
- The website should have proper error messages and alerts that guide the user.
- The website should have clear instructions for the ordering process.

Performance Testing:

- The website should load quickly on different devices and browsers.
- The website should be able to handle multiple user requests simultaneously.
- The website should be able to handle peak traffic loads without any errors.
- The website should be able to provide a smooth user experience without any delays or errors.

Security Testing:

- The website should ensure the security of user's personal and financial information.
- The website should use HTTPS protocol for secure communication.
- The website should encrypt user's personal and financial information.
- The website should have proper authentication and authorization mechanisms in place.
- The website should not allow unauthorized access to user's personal and financial information.
- These acceptance criteria should be met to ensure the tiffin service website meets the expected quality standards and is user-friendly.

Testing in ReactJS for a tiffin-based service involves ensuring the components, data flows, and interactions are functioning correctly. Here's a general approach to testing in ReactJS:

Set up a Testing Environment:

Install testing dependencies like jest and react-testing-library (or any other preferred testing library).

Configure the testing environment, such as creating a separate testing file or directory structure.

Unit Testing:

Start with unit testing individual components.

Write test cases to cover different scenarios for each component.

Test component rendering, state changes, and interactions (e.g., button clicks).

Use the testing library to render components, simulate events, and assert expected outcomes.

Integration Testing:

Test how different components work together.

Mock any external dependencies or APIs.

Simulate user interactions and verify the expected behaviour.

Test data flows and ensure the proper communication between components.

API Testing:

If your tiffin-based service interacts with an API, test the API integration.

Use mocking or stubbing to simulate API responses.

Write test cases to cover different API endpoints, success, and error scenarios.

Verify the data sent and received from the API.

End-to-End (E2E) Testing:

Test the complete user flow from start to end.

Use a testing framework like Cypress or Selenium.

Write test cases to simulate user actions, such as signing up, placing an order, and checking out.

Verify the expected results at each step of the process.

Test Coverage and Automation:

Aim for high test coverage by ensuring most, if not all, code paths are tested.

Use code coverage tools to measure the effectiveness of your tests.

Automate your tests to run on each code commit or as part of your continuous integration (CI) process.

Integrate testing into your build and deployment pipeline.

Remember, the exact testing approach may vary based on your specific project requirements and testing library preferences. It's also crucial to test both positive and negative scenarios to ensure your tiffin-based service is robust and reliable.

In website following testing took place: -

unit testing individual components.

Tested our First user offer – we used it with created different users based on location, gender, City etc.

Tested our happy hours – we use it in different time stamps along with creating new user etc.

Test our Bill generate option.

Tested create new user, provider by creating new user, provider.

Tested Login Page

Tested the validation in Payment Dubby part.

Tested View, delete, Edit buttons along with open and close functionality.

Test how different components work together.

Tested our bot functionality, integrated bot using Dialogflow API and using Kommunicate for UI of the code. Used mock responses to simulate API response.

Tested proper communication between components.

CHAPTER 6

OUTCOMES, CONCLUSION AND FUTURE WORK

6.1 OUTCOMES

Enhanced User Experience: By providing an online platform for ordering homemade cooked food, the project aims to offer users a convenient and seamless experience. Users can easily access the website, select their preferred meals, specify their dietary requirements, and place orders effortlessly. The system will consider their preferences and geolocation to provide personalized meal options, ensuring a satisfying user experience.

Access to Wholesome Homemade Meals: The project seeks to bridge the gap between individuals living away from home and wholesome, freshly prepared meals. By connecting users with home chefs, mostly housewives, the platform ensures access to authentic homemade food, offering a distinct flavor and quality that sets it apart from ready-made alternatives. This will cater to the demand for healthier and more personalized meal options.

Empowerment of Home Chefs: The project aims to empower housewives and home chefs by providing them with a flexible job opportunity. By leveraging their culinary skills, they can earn income from their homes and contribute to their households' finances. This initiative promotes women's empowerment and recognizes the value of their expertise in the culinary domain.

Promoting Healthy Lifestyle: The tiffin service project encourages a healthy lifestyle by offering wholesome meals prepared with fresh ingredients. By providing users with nutritious and balanced food options, it aims to promote overall well-being and conscious eating habits among the target market of students and young working professionals.

Cost Savings for Customers: The project aims to offer meals at a minimum price, making homemade cooked food an affordable option for customers. The inclusion of Happy Hours with a 50% discount on all items during specific time durations further enhances the affordability and attractiveness of the service. Additionally, the first-user offer of a 70% discount on the initial order incentivizes new customers to try the service and enjoy significant cost savings.

Our Home page looks like

ENJOY YOUR HEALTHY
DELICIOUS FOOD

Nothing more satisfying than
"Ghar Ka Khana"

Order Now! Watch Video

Order Now!

Watch Video

Progress Bar

The Recommended products shown over here the context filtering is used that shows us the similar products on the basis of similar content

Recommended Products:

Provider Name Meena Kumari Product Name Avocado Smoothie Product Description Special Thandai Mixed Product Category lunch	Provider Name Meena Kumari Product Name Beetroot Juice Product Description Multivitamin With Citrus Product Category breakfast	Provider Name Vikas Bhuvan Product Name Besan Ka Halwa Product Description made with kesar and elaychi Product Category breakfast	Provider Name Megha Dutt Product Name Chicken Kabab Product Description Turkish Chicken Product Category dinner	Provider Name Vikas Bhuvan Product Name Chicken Pasta Product Description Chinese Style Product Category lunch
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The home page details

Address
Sector 10
Gurgaon, Haryana

Reservations
Phone: +91-9560576294
Email: admin@gharKaKhaana.com

Opening Hours
24 X 7 open

Follow Us
[Twitter](#) [Facebook](#) [Instagram](#) [LinkedIn](#)

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Feedback icons

6.2 CONCLUSION

In conclusion, the tiffin service project aims to meet the growing demand for homemade meals and provide a platform for customers to order wholesome, freshly prepared food from home chefs, primarily housewives. By connecting customers to talented home chefs, the project not only offers a convenient and flexible job opportunity but also promotes women's empowerment and the utilization of culinary skills to generate income.

The target market for this project includes students and young working professionals who are living away from their homes and seek flavorful, homemade meals. By offering meals based on customers' preferences and geolocation, the project ensures personalized and convenient service. Additionally, the inclusion of Happy Hours with offers of 50% off on all items during specific durations of time and a first user offer of 70% discount further enhances the value proposition for customers.

The primary purpose of this program is to benefit both the users and the homemade meal makers. Customers can enjoy delicious, home-cooked meals while supporting local home chefs. The project's emphasis on establishing women's empowerment adds a social dimension to the initiative, promoting equal opportunities and recognizing the culinary skills of housewives.

Looking towards the future, there are numerous opportunities for the project's expansion and growth. These include geographical expansion to reach customers in different areas, diversification of the menu to cater to various dietary preferences, and the integration of technology to enhance the ordering process and user experience. The project can also explore collaborations with local suppliers, initiate social impact programs, implement feedback systems, and forge partnerships with corporate organizations. In conclusion, the tiffin service project seeks to fulfill the demand for homemade meals, empower women, and provide a seamless and personalized experience for customers. By fostering connections between customers and home chefs, the project not only satisfies appetites but also promotes a healthy lifestyle, supports local communities, and creates opportunities for women to showcase their culinary expertise and achieve financial independence.

6.3 FUTURE SCOPE

Geographical Expansion: Initially targeting students and young working professionals, the project can expand its reach to other customer segments and geographical areas. By onboarding more home chefs from different locations, the service can cater to a broader customer base, including individuals living away from home in different cities or regions.

Diversification of Menu: As the project gains traction and attracts a larger customer base, there is an opportunity to diversify the menu offerings. Introducing a wider range of cuisines, dietary options (e.g., vegan, gluten-free), and seasonal specialties can cater to diverse customer preferences and attract a broader audience.

Collaborations with Local Suppliers: To further promote the concept of wholesome, freshly prepared meals, the project can consider collaborating with local suppliers and farmers. This partnership can ensure the sourcing of high-quality ingredients and support local businesses, while also enhancing the project's sustainability and promoting a farm-to-table approach.

Integration of Technology: Leveraging emerging technologies can enhance the efficiency and user experience of the tiffin service. Features like a mobile application for seamless ordering, real-time tracking of deliveries, personalized recommendations based on past orders, and integration with popular food delivery platforms can attract tech-savvy customers and streamline operations.

Social Impact Initiatives: Building on the objective of women's empowerment, the project can initiate social impact programs and campaigns. These can include skill development workshops for home chefs, promoting women entrepreneurship in the food industry, and collaborations with organizations working towards women's empowerment and equal opportunities.

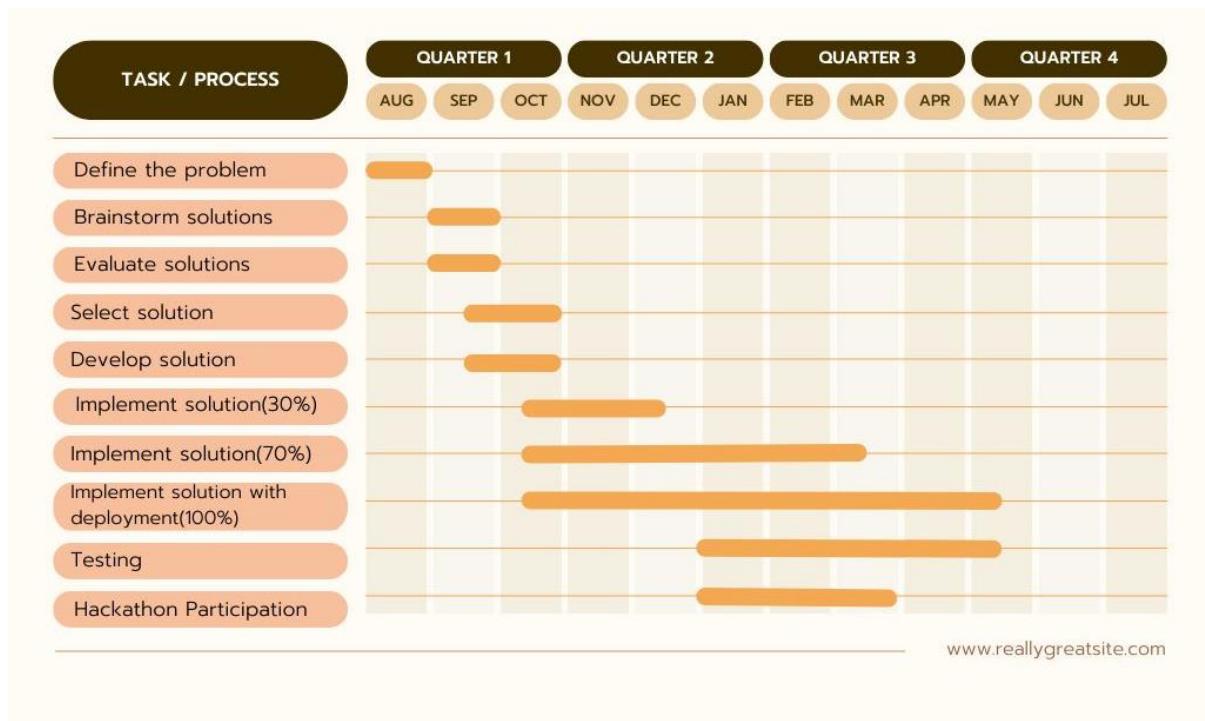
Feedback and Review System: Implementing a robust feedback and review system can help improve the overall quality and customer satisfaction of the service. Gathering feedback from users and incorporating their suggestions can drive continuous improvement and build trust among customers.

Corporate Partnerships: Exploring partnerships with corporate organizations can open avenues for providing tiffin services to employees in office spaces. This can include catering services for meetings, lunch options for employees, and customized meal plans based on the organization's requirements.

6.4 ADVANTAGES

- **Convenience:** Customers can easily order homemade meals from home chefs through the website without having to physically visit the kitchen or restaurant.
- **Fresh and healthy food:** The food is prepared freshly by home chefs, promoting a healthy lifestyle and providing nutritious meals.
- **Cost-effective:** The meals are available at a minimum price, making it affordable for students and young working professionals.
- **Empowerment of home chefs:** This project provides a flexible job opportunity for home chefs, mostly housewives, to use their culinary skills and earn money from home.
- **Geographic preference:** The system will serve meals to customers based on their geolocation, making it easier for them to access meals from nearby home chefs.
- **Happy Hours offer:** The offer of Happy Hours, providing 50% off on all items during a specific duration, will encourage customers to order more frequently and benefit both the customers and the home chefs.

GANTT CHART



RESPONSIBILITY CHART

NAMES	REPORT	CODE	PPT
SHIVANI	25%	25%	25%
SHREYA	25%	25%	25%
ISHITA	25%	25%	25%
GITANSHA	25%	25%	25%

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