### Project Proposal

FoodSub – “Why starve? When you have us.”



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# Introduction

Do you struggle to find time to prepare healthy meals each day? Are you tired of constantly reaching for takeout or fast food? What if there was a better way?

We are introducing a food subscription app, **FoodSub – “Why starve? When you have us”**. With our app, you can have multiple food providers that are making fresh, delicious, and healthy meals delivered straight to your doorstep on a regular basis. You can subscribe on a daily, weekly or monthly basis.

# Objective

The main objective of our project is to provide healthy, and delicious meals on a regular basis for busy individuals and families. Our aim is to provide healthy food at the customer’s doorstep so they can save time and reduce stress by taking care of meals.

# Problem Description

Most of the students or workers who come from villages, or other cities are facing problems getting healthy food. Some people are busy with their jobs and other responsibilities, so they do not have time to make food for themselves. So, they rely on fast food or takeout, and that can be unhealthy and expensive for a long time. Some people have allergies like gluten, or some people are vegetarian. So, we provide a variety of meal plans and options including vegetarian, gluten-free and paleo.

FoodSub app provides a solution to this real-life problem by offering a convenient and customizable way to access healthy and delicious meals. Users can choose a variety of food plans according to their dietary needs and their preferences. They can also make their orders to ensure that every food is exactly to their liking. Delivering meal straight to their doorstep on a regular basis, users can save time and reduce stress by eliminating the need to plan, shop, and prepare meals. This app also helps a person to start their own small business and help riders to get money.

# Methodology

The methodology of FoodSub app has the following steps:

* Register and Profile Setup.
* Meal Plan Selection.
* Food Customization.
* Delivery Schedule.
* Payment and Checkout.
* Meal Delivery.
* Feedback and Reviews.

# Project Scope

The scope of the project is to develop an application which will help users with a convenient and customizable way to access healthy and delicious meals on a regular basis. Our project will be an android and iOS-based app. It will have 3 panels. User Panel, Service Provider Panel and Rider Panel. Users can take food services according to their need and day/s and can customize food according to their taste and can give rating and feedback according to their experience. It also allows users to track your rider. Users will have different payment options like COD or pay by card.

# Feasibility Study

**Risks Involved:** When considering the implementation of a food subscription app like FoodSub, it's important to be aware of potential risks and challenges that could affect the success of the business. Here are some common risks involved:

* Market Competition: The food delivery industry is highly competitive, and there may be established players or new entrants offering similar services. Competing with well-known brands or businesses with larger budgets and customer bases can pose a challenge in acquiring and retaining customers.
* Customer Acquisition and Retention: Attracting and retaining customers is crucial for the success of the app. Convincing users to try the app and subscribe to food deliveries regularly may require significant marketing efforts and incentives. It's essential to continuously provide value, maintain quality, and offer exceptional customer service to retain customers and encourage repeat orders.
* Supplier Reliability: The success of the app relies on reliable and consistent food providers. Ensuring that the suppliers can meet the demand, maintain quality standards, and deliver meals on time is crucial. If suppliers fail to meet expectations, it can lead to customer dissatisfaction and impact the reputation of the app.
* Operational Challenges: Managing the logistics of food delivery, including timely and accurate deliveries, packaging, and order tracking, can be complex. Unexpected issues such as delivery delays, incorrect orders, or inventory shortages can arise and negatively impact the user experience. Implementing efficient operational processes and maintaining clear communication with both customers and suppliers is vital to minimize these challenges.
* Food Safety and Quality Control: As the app handles the delivery of food, maintaining strict food safety standards and ensuring consistent quality control is essential. Any instances of foodborne illnesses or quality issues can significantly damage the reputation of the app and lead to legal repercussions. It's crucial to work closely with food providers to enforce proper hygiene practices and conduct regular quality checks.
* Technological Risks: Reliance on technology introduces risks such as system failures, security breaches, or data leaks. Implementing robust cybersecurity measures, regular system backups, and disaster recovery plans are crucial to mitigate these risks. Additionally, staying up to date with technological advancements and user demands is necessary to remain competitive.
* Regulatory Compliance: Food delivery services are subject to various regulations and licensing requirements, including food safety, health permits, and data protection laws. Ensuring compliance with these regulations and obtaining the necessary permits and licenses is essential to avoid legal issues and penalties.
* Changing Consumer Preferences: Consumer preferences and trends in the food industry can change rapidly. It's important to stay adaptable and responsive to changing dietary preferences, food trends, and consumer demands. Regularly updating the app's offerings and menu options to cater to evolving tastes can help maintain customer interest and satisfaction.

To mitigate these risks, it's crucial to conduct thorough research and planning, implement robust operational processes, and maintain strong relationships with both customers and suppliers. Regular monitoring and analysis of market trends, customer feedback, and performance indicators can help identify and address potential risks proactively.

**Resource Requirement:**

**During development by developers end:** Launching and operating a food subscription app like FoodSub will require various resources. Here are some key resource requirements to consider:

* Financial Resources: Sufficient financial capital is essential to cover expenses during the initial development and ongoing operations of the app. This includes costs associated with app development, marketing and advertising, supplier partnerships, delivery logistics, customer support, and administrative overhead. Conduct a comprehensive financial analysis to determine the required funding and ensure adequate financial resources are available.
* Technology Infrastructure: Developing and maintaining a robust and user-friendly app requires technological resources. This includes hiring skilled software developers, designers, and testers to create the app. Additionally, you will need servers, hosting services, databases, and other technical infrastructure to support the app's functionality, security, and scalability.
* Human Resources: Assemble a team with the necessary expertise to manage various aspects of the app. This may include project managers, app developers, UI/UX designers, marketing specialists, customer support representatives, and operations managers. Evaluate the staffing needs based on the size of the operation and allocate resources accordingly.
* Supplier Network: Building and maintaining partnerships with food providers requires resources. Identify and engage with local food suppliers who can deliver fresh and high-quality meals. Establishing agreements, negotiating contracts, and managing relationships will require time and effort to ensure a reliable and diverse supplier network.
* Delivery Logistics: Implementing a delivery system involves resources such as vehicles, delivery personnel, and related equipment. Determine whether you will handle deliveries in-house or partner with third-party delivery services. In the case of in-house delivery, you will need to allocate resources for hiring and training delivery staff, as well as managing the logistics of efficient and timely deliveries.
* Marketing and Promotion: Allocating resources for marketing and promotion is essential to create awareness and attract customers. This may include digital marketing campaigns, social media management, influencer collaborations, search engine optimization (SEO), and other advertising strategies. Consider the cost of marketing initiatives and allocate resources accordingly to reach the target audience effectively.
* Administrative Resources: Administrative tasks such as accounting, legal compliance, and general business operations require resources. This may include accounting software, legal consultations, office space, utilities, and administrative staff or outsourcing services. Ensure you have the necessary resources to manage administrative functions efficiently.
* Customer Support: Allocate resources to provide excellent customer support to address inquiries, resolve issues, and ensure customer satisfaction. This may involve dedicated customer support staff, communication channels (such as phone, email, or chat), and customer relationship management (CRM) software.

It's important to carefully assess and allocate resources based on the scale and growth projections of the app. Regular monitoring and adjustments to resource allocation will be necessary to optimize operations and adapt to changing demands.

**From user’s end:**

* Smart Phone
* Internet Connection

# Solution Application Areas

We are providing solutions to the users, providers as well as riders. Users can schedule food service according to their preferred day and time and also can customize their food. This will solve many problems like saving time, health and wellness, and money as well. This app is also providing solutions for Providers as some people don't have money to open a restaurant so they can open their business on our app. This app also provides a solution to the rider panel as the unemployment rate is high.

# Tools/Technology

**Hardware Tools**

* Laptop.
* Internet Device.
* Android Phone.

**Software Tools:**

* Android Studio
* Visual Code
* Flutter
* MongoDB
* Node JS

# Expertise of the Team Members

Our team consists of two members Sohasi Kataria, Faiza Farooq and our project advisor Sir Ali Mobin. Both team members have a basic understanding of android development, database and documentation. Additionally, both team members intend to learn courses that are relevant and required for the project.

1. Milestone

* **User Panel:**
* Register User and Setup Information.
* Schedule Food Services.
* Meal Selection and Customization.
* Payment and Checkout.
* Pin location for provider.
* Rating and Feedback.
* Users can chat with riders and providers as well through whatsapp or direct number.
* **Provider Panel:**
* Register restaurant and setup information.
* Make a menu.
* Promotions and Deals.
* Customer’s and Rider’s Location.
* Riders can chat with users and riders through whatsapp or direct number.
* **Rider Panel:**
* Register and setup information.
* The rider can see user’s, providers information and location which will be a link that’ll direct to google map.
* Riders can chat with users as well as restaurants through whatsapp.

# Project Schedule

Creating a project schedule for the development and launch of the FoodSub app will involve several key tasks and milestones. Here's a sample project schedule that outlines the major activities and their estimated durations:

1. **Project Initiation Phase:**

FYP 1:

* Define project goals, scope, and requirements: 1 week.
* SRS of the project: 5 weeks.
* SDS of the project: 4 weeks.
* connecting database: 5 weeks.
* Assemble project team and allocate resources: 1 week.
* Conduct market research and competitor analysis: 2 weeks.
* Develop a project plan and schedule: 1 week.

**User Panel:**

a) Register User and Setup Information:

i) Develop registration form: 1 week.

ii)Authentication mechanism: 1 week

.

b) Schedule Food Services:

i)Design scheduling interface: 2 weeks.

ii)Develop scheduling logic: 2 weeks.

c)Meal Selection and Customization:

i)Display meal options: 3 weeks.

ii)Customization options: 3 weeks.

**Provider Panel:**

a) Register Restaurant and Setup Information:

i)Registration form: 1 week.

ii)Authentication mechanism: 1 week.

b) Make Menu:

i)Menu interface design: 2 weeks.

ii)Menu management development: 3 weeks.

c)Promotions and Deals:

i)Promotions interface: 2 weeks.

ii)Promotion logic: 2 weeks.

**Rider Panel:**

a) Register and Setup Information:

i)Registration form: 1 week.

ii)Authentication mechanism: 1 week.

b) View User and Provider Information:

i)User details display: 1 week.

ii)Provider details display: 1 week.

1. **App Development Phase:**

* Integration and Testing: 24 weeks. (Including all applications)
* Frontend Development: 24 weeks. (Including all applications)
* Backend Development: 17 weeks.

Short summary:

FYP 2:

**User Panel:**

a) Payment and Checkout:

i)Payment gateway integration: 2 weeks.

ii)Shopping cart development: 2 weeks.

b) Pin Location for Provider:

i)Map location link which will help the rider to directly reach the address by using google map link: 3 weeks.

c)Rating and Feedback:

i)Rating system: 1 week.

ii)Feedback form: 1 week.

d)User-Provider/Rider Communication:

i)Chat functionality by connecting WhatsApp to it: 2 weeks.

**Provider Panel:**

a) Customer and Rider Location:

i)Map location link which will help the rider to directly reach the address by using google map link: 1 week.

b) Provider-Rider Communication:

i)Chat functionality by connecting whatsapp to it: 1 week.

**Rider Panel:**

a) Location Tracking and Navigation:

i)Map location link which will help the rider to directly reach the address by using google map link: 1 week.

b) Rider-User/Provider Communication:

i)Chat functionality by connecting whatsapp to it: 1 week.

It's important to note that the duration of each phase and task may vary based on the complexity of the app, the availability of resources, and potential challenges encountered along the way. Regular monitoring and communication within the project team will help identify and address any delays or roadblocks.

Additionally, it's recommended to use project management tools and techniques, such as Gantt charts or agile methodologies, to track progress, assign tasks, and manage dependencies effectively. This will enable the team to stay on schedule and ensure timely delivery of the FoodSub app.

Include or attach a preliminary 1-year project **Gantt chart** projecting a project timeline representing all milestones mentioned in para 10 above.

Gantt chart

A spreadsheet with multiple squares

Description automatically generated

FYP 1

A screenshot of a project

Description automatically generated

FYP 2

A screenshot of a spreadsheet

Description automatically generated

1. Work Breakdown Structure

# A Work Breakdown Structure (WBS) is a hierarchical decomposition of a project into smaller, more manageable work components. It helps in organizing and visualizing the project tasks and their relationships. Here's a sample Work Breakdown Structure for the development and launch of the FoodSub app:

# **Project Initiation:**

# 1.1 Define Project Goals and Scope.

# 1.2 Identify Stakeholders.

# 1.3 Allocate Resources.

# 1.4 Develop Project Plan.

# **Market Research and Analysis:**

# 2.1 Identify Target Audience.

# 2.2 Conduct Market Research.

# 2.3 Analyze Competitors.

# 2.4 Determine Unique Selling Points.

# **App Development:**

# 3.1 UI/UX Design.

# 3.1.1 Wireframing.

# 3.1.2 Prototyping.

# 3.1.3 User Interface Design.

# 3.2 Backend Development.

# 3.2.1 Database Design.

# 3.2.2 API Development.

# 3.2.3 Order Management System.

# 3.3 Front End Development.

# 3.3.1 Homepage Development.

# 3.3.2 Menu Display and Selection.

# 3.3.3 Subscription Management.

# 3.4 Integration and Testing.

# 3.4.1 Integration of Backend and Frontend.

# 3.4.2 User Acceptance Testing.

# 3.4.3 Bug Fixing and Quality Assurance.

# **Supplier Network and Operations Setup:**

# 4.1 Identify Potential Food Providers.

# 4.2 Negotiate Contracts and Partnerships.

# 4.3 Establish Delivery Logistics.

# 4.4 Implement Quality Control Measures.

# 4.5 Food Safety Compliance.

# **Marketing and Promotion:**

# 5.1 Develop Marketing Strategy

# 5.2 Create Branding and Visual Identity

# 5.3 Website Development

# 5.4 Social Media Presence.

# 5.5 Execute Marketing Campaigns.

# **Launch and Operations:**

# 6.1 Soft Launch and User Testing.

# 6.2 Iterate and Make Improvements.

# 6.3 Full-scale Launch.

# 6.4 Ongoing Operations and Maintenance.

# Each of these tasks can be further broken down into smaller, more specific subtasks as necessary. It's important to note that the WBS can vary based on the specific requirements and scope of the FoodSub app project. The WBS provides a framework for organizing and managing the project tasks, enabling effective planning, scheduling, and execution.

# 13. Vocabulary

* SRS: A software requirements specification (SRS) is a comprehensive description of the intended purpose and environment for software under development. The SRS fully describes what the software will do and how it will be expected to perform.
* SDS: A software design description is a representation of a software design that is to be used for recording design information, addressing various design concerns, and communicating that information to the design’s stakeholders.
* Food Subscription App: An application that allows users to subscribe to receive regular deliveries of prepared meals.
* Objective: The main goal or purpose of the project.
* App: Short for "application," which is a software program designed to perform specific tasks on electronic devices.
* Dietary Needs: Specific requirements related to a person's diet, such as allergies, preferences, or restrictions.
* Allergy: A negative reaction by the body's immune system to a particular substance, often causing adverse symptoms.
* Gluten-Free: A diet that excludes gluten, a protein found in wheat and some other grains, typically followed by individuals with celiac disease or gluten sensitivity.
* Paleo: Short for Paleolithic, it refers to a diet based on foods that were likely consumed by ancient humans, typically including meats, fruits, vegetables, and nuts.
* Customizable: Able to be tailored or adjusted according to individual preferences or needs.
* Logistics: The planning, organization, and management of various operations involved in a project, such as transportation, delivery, and distribution.
* Operational Processes: The series of steps and activities that are followed to ensure the smooth running of a business or project.
* Hygiene Practices: Practices related to cleanliness and sanitation to maintain health and prevent the spread of disease.
* Cybersecurity: Measures taken to protect computer systems and networks from attacks, data breaches, and unauthorized access.
* Regulatory Compliance: Following rules, laws, and regulations set by governing bodies to ensure legal and ethical operations.
* UI/UX Design: User Interface (UI) design focuses on how the app looks and interacts with users, while User Experience (UX) design focuses on improving user satisfaction and ease of use.
* Backend Development: The development of the server-side components of an application, which handle data processing and storage.
* Frontend Development: The development of the client-side components of an application, which users interact with directly.
* API: Application Programming Interface. It defines how different software components should interact and communicate.
* Gantt Chart: A visual representation of a project schedule that shows tasks, their duration, and their dependencies over time.
* Wireframing: Creating a basic visual outline or blueprint of how an application's interface will look and function.
* Prototyping: Developing a preliminary version of the app to demonstrate its functionality and gather feedback.
* User Acceptance Testing: Testing the app to ensure that it meets the needs and expectations of the end users.
* Bug Fixing: Identifying and correcting errors or issues in the software code.
* Quality Assurance: Processes and practices to ensure that the final product meets the desired quality standards.
* Stakeholders: Individuals or groups with an interest in or impact on the project's outcomes.
* Market Research: Gathering information about the industry, target audience, and competitors to make informed decisions.
* Iterate: To repeat a process, such as refining the app based on user feedback and testing.
* Branding: Creating a unique identity for the app through design, logo, colors, and other visual elements.
* CRM: Customer Relationship Management. Software used to manage interactions and relationships with customers.
* Soft Launch: Introducing the app to a limited audience or region to test and gather feedback before a full-scale launch.
* Agile Methodologies: Project management approaches that prioritize flexibility, collaboration, and iterative development.
* WBS: Work Breakdown Structure. A hierarchical breakdown of project tasks to manage and organize the project.

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Software Requirements Specification (SRS)

Food Sub – “Why starve? When you have us.”

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# **1. Introduction**

The Food Delivery Application is a mobile app designed to provide users with a convenient and efficient platform for ordering and receiving meals from various food providers. This SRS outlines the detailed requirements for the development of the application.

# **2. Objective**

The primary objective of the application is to offer a seamless food delivery experience, including user registration, meal selection, order placement, and real-time tracking.

# **3. Scope**

The application will support user accounts, food provider accounts, and rider accounts, facilitating order placement, delivery management, and feedback collection.

# **4. Definitions, Acronyms, and Abbreviations**

* SRS: Software Requirements Specification
* UI: User Interface
* UX: User Experience

# **5. User Requirements**

## 5.1 User Registration and Authentication

* Users can create an account using their email.
* Account activation and password recovery functionality is provided.
* Users can securely log in and log out.

# **5.2 User Profile Management**

* Users can edit and update their personal information.
* Users can upload a profile picture.
* User profiles are viewable by themselves and other users.

## 5.3 Dietary Preferences

* Users can specify dietary preferences, allergies, and restrictions.
* The application will recommend meal options based on user preferences.

## 5.4 Meal Selection

* Users can choose from daily, weekly, or monthly meal plans.
* Customization options include portion size, ingredient exclusions, and add-ons.
* Users can view detailed information about each meal option.

## 5.5 Order Placement and Tracking

* Users can place orders with delivery preferences (date and time).
* Orders can be tracked in real-time, with map views showing the rider's location.
* Users receive notifications at key order milestones.

## 5.6 Feedback and Reviews

* Users can provide ratings and written reviews for meals and the overall delivery experience.
* Users can communicate with providers and riders through in-app messaging.

# **6. Provider Requirements**

## 6.1 Provider Registration and Authentication

* Food providers can create an account with business information.
* Accounts are verified and approved by administrators.

## 6.2 Menu Management

* Providers can add, update, and remove menu items.
* Specials, promotions, and discounts can be applied to menu items.
* Real-time updates ensure menu accuracy.

## 6.3 Promotions and Discounts

* Providers can create and manage promotional campaigns.
* Discount codes can be generated and applied to orders.
* Promotion analytics are available to providers.

## 6.4 Order Confirmation

* Providers receive order requests and confirm availability.
* Order details, including meal customizations, are accessible to providers.
* Order confirmation and meal preparation status are communicated to users.

## 7. Rider Requirements

## 7.1 Rider Registration and Authentication

* Riders can sign up and complete their profiles.
* Accounts are verified and approved by administrators.

## 7.2 Availability Management

* Riders can set their availability for taking delivery assignments.
* Availability updates are synchronized with the system in real-time.

## 7.3 Order Assignment and Delivery

* Riders receive order assignments based on their availability and proximity.
* Riders can view order details, including delivery location and order notes.
* Real-time navigation and order status updates are provided to riders.

# **8. Order Management**

## 8.1 Order Processing

* Orders are processed securely, and payment is collected from users.
* Order information is sent to providers for meal preparation.

## 8.2 Payment and Checkout

* Users have multiple payment options, including credit/debit cards, digital wallets, and cash on delivery.
* Payment processing is secure and complies with relevant standards.

## 8.3 Delivery Logistics

* Orders are dispatched to available riders.
* Riders are provided with optimal routes and order details for efficient delivery.

## 9. Non-Functional Requirements

## 9.1 Security

* User data, including personal information and payment details, is encrypted.
* Access controls restrict access to sensitive data.
* Secure communication protocols are used.

## 9.2 Performance

* The application should load quickly and provide a responsive user experience.
* Real-time features, such as tracking, should provide accurate and timely updates.

## 9.3 Usability and User Interface

* The UI should be intuitive, consistent, and user-friendly.
* The design should be responsive, ensuring a seamless experience on various devices and screen sizes.

# **9.4 Compatibility**

* The application should be compatible with both Android and iOS platforms.
* Cross-browser compatibility for web-based components is ensured.

## 9.5 Regulatory Compliance

* The app complies with relevant regulations, including food safety, health permits, and data protection laws.

# 10. System Architecture

## 10.1 High-Level System Overview

* The application architecture follows a client-server model.
* Components include mobile apps, web services, databases, and third-party integrations.

## 10.2 System Components

* User-facing mobile applications for Android and iOS.
* Web-based admin panels for user management and order tracking.
* Backend servers for business logic and data processing.
* Relational database management systems (RDBMS) for data storage.
* Third-party services for payment processing and mapping.

## 11. Data Requirements

## 11.1 Database Schema

* Database tables include User, Provider, Rider, Order, Meal, Review, Promotion, and others.
* Tables capture user profiles, orders, menu items, and delivery details.
* Relationships between tables are defined, and data integrity is maintained.

## 11.2 Data Security and Privacy

* User data, including personal and payment information, is stored securely.
* Data access is controlled based on user roles and permissions.

# **12. Assumptions and Constraints**

* The successful operation of the app depends on reliable food providers and delivery riders.
* The app is subject to regulatory compliance regarding food safety and data protection.

# **13. Appendices**

* Detailed UI/UX design mockups.
* Flowcharts for order processing and delivery management.

**SEQUENCE DIAGRAM:**

A screenshot of a computer screen

Description automatically generated

A diagram of a server

Description automatically generated

A diagram of a diagram

Description automatically generated

**ERD:**

A diagram of a system

Description automatically generated

**USE-CASE DAIGRAM:**

A diagram of a system

Description automatically generated

**FLOW DIAGRAM:**

![A screenshot of a chat

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHdhciBzaG9wAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzMAAJKSAAIAAAADMzMAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![A screenshot of a computer

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screenshot of a computer

Description automatically 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screenshot of a chat

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**ACTIVITY DAIGRAM:**

A diagram of a customer service

Description automatically generated

**BLOCK DIAGRAM:**

A diagram of a company

Description automatically generated

**GANTT CHART**

A spreadsheet with multiple squares

Description automatically generated

**FYP 1**

A screenshot of a project

Description automatically generated

**FYP 2**

A screenshot of a spreadsheet

Description automatically generated

**TEST CASES:**

### User Registration and Authentication

**Test Case 1: User Registration**

*Test Steps:*

* Open the app.
* Tap on the "Sign Up" button.
* Fill in valid registration information.
* Tap the "Sign Up" button.

*Expected Result:*

* The user should be successfully registered.
* The user should receive a confirmation email.

**Test Case 2: User Login**

*Test Steps:*

* Open the app.
* Tap on the "Log In" button.
* Enter valid login credentials (username and password).
* Tap the "Log In" button.

*Expected Result:*

* The user should be successfully logged in and redirected to the app's main screen.

### User Profile Management

**Test Case 3: Edit User Profile**

*Test Steps:*

* Log in as a user.
* Navigate to the "Profile" or "Account" section.
* Edit user profile information (e.g., profile picture, contact information).
* Save the changes.

*Expected Result:*

* The user's profile information should be successfully updated.

**SDS**

**SOFTWARE DESIGN SPECIFICATION**

**for**

**FoodSub**

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**18 JANUARY’24**

**1. Introduction**

The Food Delivery Application is designed to provide a seamless experience for users, providers, and riders in ordering and delivering dietary meals scheduled on monthly, weekly and daily bases. This document outlines the design specifications for the application.

**1.1 Purpose of documentation**

Documentation is an integral part of the FoodSub software project, serving as a communication tool, knowledge repository, and guide for development. It outlines project objectives, requirements, and design decisions, facilitating clear understanding among team members and stakeholders. As a knowledge transfer tool, documentation helps new team members quickly grasp project intricacies, minimizing the impact of turnover. Throughout development, it guides developers, ensuring consistency and providing insights into coding standards and best practices. Additionally, documentation supports testing, project planning, and compliance with regulations. As the project evolves, it becomes a vital resource for maintenance, updates, and user support, contributing to effective collaboration and problem-solving. In summary, documentation plays a pivotal role in the success and sustainability of the FoodSub software project.

**1.2 Scope of project**

The scope of the FoodSub project encompasses the development of a comprehensive food subscription app that caters to the needs of users, food providers, and delivery riders while addressing market challenges and ensuring technological feasibility.

**1.3 Definitions, acronyms, and abbreviations**

**FoodSub:** The food subscription application designed to provide users with convenient access to healthy and customizable meals through a subscription-based model.

**UI/UX:** User Interface/User Experience. Refers to the design and interaction aspects of the app to enhance user satisfaction and usability.

**API:** Application Programming Interface. Defines the communication protocols between different software components in the FoodSub system.

**WBS:** Work Breakdown Structure. A hierarchical decomposition of the project into smaller, manageable tasks to organize and manage the workload.

**Gantt Chart:** A visual representation of the project schedule that shows tasks, durations, and dependencies over time.

**SDS:** Software Design Specification. Details the architectural and design aspects of the FoodSub app, providing guidance for developers.

**CRUD:** Create, Read, Update, Delete. Basic operations in a database system, defining the essential functions for managing data.

**QA:** Quality Assurance. The process of ensuring that the software meets specified requirements and functions correctly.

**GPS:** Global Positioning System. Utilized for real-time tracking and location services within the FoodSub app.

**UI Design:** User Interface Design. Focuses on the visual aspects of the app to enhance user interaction and experience.

**UX Design:** User Experience Design. Aims to improve overall user satisfaction and usability by enhancing the app's ease of use and accessibility.

**CRM:** Customer Relationship Management. Software used to manage interactions and relationships with FoodSub app users.

**ERD:** Entity Relationship Diagram. Illustrates the relationships between different entities in the FoodSub database.

**APIs:** Application Programming Interfaces. Define how different software components in the FoodSub app should interact and communicate.

**HTTP:** Hypertext Transfer Protocol. The foundation for data communication on the World Wide Web, used for communication between the app's frontend and backend.

**SDK:** Software Development Kit. A set of tools and resources that developers use to create applications for specific platforms.

**1.4 Reference**

* https://medium.com/flutter-community/develop-a-food-delivery-application-its-features-cost-and-functionality-454b228b8111
* https://pricespakistan.pk/food-delivery-apps-in-pakistan/
* https://www.netsolutions.com/insights/top-10-successful-food-delivery-apps-in-the-world/
* https://www.mobileaction.co/top-apps/food-and-drink-56/android/pk

This document ensures that all stakeholders, including developers, testers, and project managers, have a clear understanding of the software's design, functionality, and implementation details. It acts as a guide throughout the development process, promoting consistency and clarity in the development team's efforts.

**2. Architectural Design**

**2.1 System Architecture**

The application follows a three-tier architecture, comprising the presentation layer (mobile applications), application layer (server and business logic), and data layer (database).

**2.1.1 Section Overview**

This section provides a concise overview of the program's data and architectural design decisions. It encompasses a summary of the general constraints influencing the system design, an exploration of data design including database structures, and an elucidation of the chosen architectural model and major components. Additionally, it discusses the alternatives considered during the design process and justifications for the final architectural choices.

**2.1.2 General Constraints**

In the context of software development, general constraints refer to limitations, conditions, or factors that may impact the design, development, deployment, or operation of a software system. These constraints can arise from various sources and may influence different aspects of the software development life cycle. Here are some common examples of general constraints in software development:

* **Budgetary Constraints:** The availability of financial resources can be a significant constraint. Budget limitations may impact the selection of technologies, the size of the development team, and the overall scope of the project.
* **Time Constraints:** Projects often have deadlines or timeframes within which they need to be completed. Time constraints can affect the development process, testing phases, and the overall project schedule.
* **Resource Constraints:** Availability of resources, including hardware, software, and skilled personnel, can constrain the development process. Limited resources may impact the scalability, performance, and features of the software.
* **Technological Constraints:** The choice of technologies may be constrained by compatibility issues with existing systems, organizational standards, or specific requirements. Technological constraints can influence the development stack, programming languages, and frameworks used.
* **Regulatory and Compliance Constraints:** Legal and regulatory requirements, such as data protection laws or industry-specific compliance standards, can impose constraints on how software handles and processes certain data. Adherence to these constraints is crucial to avoid legal repercussions.
* **Environmental Constraints:** The software may need to operate in specific environments, such as different operating systems or network configurations. Environmental constraints can affect compatibility and interoperability.
* **Scalability Constraints:** The software may need to scale to accommodate a growing user base or increasing data volumes. Scalability constraints can impact architectural decisions and technology choices.
* **Security Constraints:** Security considerations, including data encryption, access controls, and vulnerability management, can impose constraints on how the software is designed and implemented to ensure robust protection against threats.
* **User Interface and Accessibility Constraints:** Design constraints related to user interface elements and accessibility standards. Compliance with usability and accessibility guidelines may be required, impacting the design and development of the user interface.
* **Interoperability Constraints:** If the software needs to interact with other systems or services, interoperability constraints may arise. Compatibility with external APIs, data formats, and communication protocols may need to be considered.
* **Cultural or Geographical Constraints:** Software intended for use in different cultural or geographical regions may face constraints related to language, cultural norms, or specific regional requirements.

Understanding and managing these general constraints is essential for successful software development. Project stakeholders need to be aware of these limitations to make informed decisions and ensure that the final product meets the necessary criteria and standards.

**2.2 Class Diagram**

A diagram of a system

Description automatically generated

**2.3 Database Models**

A screenshot of a computer

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**2.4 Data Flow Diagram (DFD)**

A screenshot of a chat box

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A screenshot of a chat box

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A screenshot of a chat box

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**3. Detailed description of component**

**3.1 Section Overview**

This section provides a detailed description of how each component, or we can say feature would be performing in every situation, and how it would be acting if all the correct details were given to the component. Moreover, it also gives an idea of how the user would proceed in using the mobile app.

**3.2 Object Diagram**

A diagram of a software application

Description automatically generated with medium confidence

**3.3 Components and Detail**

**1. User Panel:**

**Component 1: User Registration and Profile Setup**

|  |  |
| --- | --- |
| Identification | CP1 |
| Type | Functional |
| Purpose | To allow new users to create an account and set up their profiles. |
| Function | * Collect user information for registration. * Enable users to customize their profiles with personal details and dietary preferences. |
| Subordinates | None |
| Dependencies | Internet connection, system authentication services. |
| Interfaces | User interface for registration and profile customization. |
| Resources | User-provided information, system database. |
| Processing | Validates user input, creates a user account, stores profile information. |
| Data | User details, dietary preferences. |

**Component 2: Meal Plan Selection**

|  |  |
| --- | --- |
| Identification | CP2 |
| Type | Functional |
| Purpose | Allow users to choose a meal plan based on frequency preferences. |
| Function | * Present meal plan options (daily, weekly, monthly). * Capture user selections and preferences. |
| Subordinates | None |
| Dependencies | User profile (for customization). |
| Interfaces | User interface for meal plan selection. |
| Resources | Meal plan options, user preferences. |
| Processing | Captures and stores user selections. |
| Data | User-selected meal plan. |

**Component 3: Food Customization**

|  |  |
| --- | --- |
| Identification | CP3 |
| Type | Functional |
| Purpose | Enable users to customize their meals based on dietary needs. |
| Function | * Present customization options (vegetarian, gluten-free, paleo). * Allow users to specify preferences for each meal. |
| Subordinates | none |
| Dependencies | User profile, meal plan selection. |
| Interfaces | User interface for meal customization. |
| Resources | Customization options, user preferences. |
| Processing | Captures and stores user customization choices. |
| Data | Customized meal preferences. |

**Component 4: Delivery Schedule**

|  |  |
| --- | --- |
| Identification | CP4 |
| Type | Functional |
| Purpose | Allow users to schedule meal deliveries at preferred times. |
| Function | * Provide a calendar for users to select delivery dates. * Allow users to specify delivery times. |
| Subordinates | None |
| Dependencies | User profile, meal plan selection. |
| Interfaces | User interface for delivery scheduling. |
| Resources | Calendar, user preferences. |
| Processing | Validates and stores user-selected delivery schedule. |
| Data | User's delivery schedule. |

**2. Provider Panel:**

**Component 1: Provider Registration and Setup**

|  |  |
| --- | --- |
| Identification | CP5 |
| Type | Functional |
| Purpose | Enable food service providers to register and set up their profiles. |
| Function | * Collect provider information for registration. * Allow providers to set up their business profiles. |
| Subordinates | None |
| Dependencies | Internet connection, system authentication services. |
| Interfaces | Provider interface for registration and profile setup. |
| Resources | Provider-provided information, system database. |
| Processing | Validates provider input, creates a provider account, stores profile information. |
| Data | Provider details. |

**Component 2: Menu Creation and Management**

|  |  |
| --- | --- |
| Identification | CP6 |
| Type | Functional |
| Purpose | Allow providers to create and manage menus. |
| Function | * Provide tools for menu creation. * Allow providers to manage meal options, prices, and descriptions. |
| Subordinates | None |
| Dependencies | Provider profile, ingredient information. |
| Interfaces | Provider interface for menu creation and management. |
| Resources | Menu options, pricing details, provider preferences. |
| Processing | Validates and stores provider menu choices. |
| Data | Menu details. |

**Component 3: Promotions and Deals Management**

|  |  |
| --- | --- |
| Identification | CP7 |
| Type | Functional |
| Purpose | Allow providers to offer promotions and deals. |
| Function | * Provide a platform for providers to create and manage promotions. * Allow providers to set up and manage deals to attract customers. |
| Subordinates | None |
| Dependencies | Provider profile, promotional content. |
| Interfaces | Provider interface for promotions and deals. |
| Resources | Promotional content, deal details. |
| Processing | Validates and stores provider promotions and deals. |
| Data | Promotion and deal information. |

**Component 4: Access to Customer and Rider Location**

|  |  |
| --- | --- |
| Identification | CP8 |
| Type | Functional |
| Purpose | Enable providers to access the locations of customers and riders. |
| Function | Facilitate efficient meal delivery by providing real-time location information. |
| Subordinates | None |
| Dependencies | User and rider profiles, location services. |
| Interfaces | Provider interface for accessing location information. |
| Resources | Real-time location data. |
| Processing | Retrieves and displays user and rider location data. |
| Data | Real-time location information. |

**3. Rider Panel:**

**Component 1: Rider Registration and Setup**

|  |  |
| --- | --- |
| Identification | CP9 |
| Type | Functional |
| Purpose | Allow individuals to register as riders for food delivery services. |
| Function | * Collect rider information for registration. * Enable riders to set up their profiles. |
| Subordinates | None |
| Dependencies | Internet connection, system authentication services. |
| Interfaces | Rider interface for registration and profile setup. |
| Resources | Rider-provided information, system database. |
| Processing | Validates rider input, creates a rider account, stores profile information. |
| Data | Rider details. |

**Component 2: Access to User and Provider Information**

|  |  |
| --- | --- |
| Identification | CP10 |
| Type | Functional |
| Purpose | Enable riders to access information about users and food providers. |
| Function | * Provide access to user and provider profiles. * Facilitate communication between riders, users, and providers. |
| Subordinates | None |
| Dependencies | User and provider profiles, communication channels. |
| Interfaces | Rider interface for accessing user and provider information. |
| Resources | User and provider profiles, communication tools. |
| Processing | Retrieves and displays user and provider information. |
| Data | User and provider details. |

**Component 3: Real-time Tracking of User and Provider Locations**

|  |  |
| --- | --- |
| Identification | CP11 |
| Type | Functional |
| Purpose | Enable riders to track the real-time locations of users and providers. |
| Function | Facilitate efficient meal delivery by providing real-time location information. |
| Subordinates | None |
| Dependencies | User and provider profiles, location services. |
| Interfaces | Rider interface for tracking locations. |
| Resources | Real-time location data. |
| Processing | Retrieves and displays user and provider location data. |
| Data | Real-time location information. |

**Component 4: In-App Chat**

|  |  |
| --- | --- |
| Identification | CP12 |
| Type | Functional |
| Purpose | Enable riders to communicate with users and food providers within the app. |
| Function | Facilitate communication for order coordination and updates. |
| Subordinates | None |
| Dependencies | User and provider profiles, communication channels. |
| Interfaces | In-app chat interface. |
| Resources | Chat functionality, user and provider profiles. |
| Processing | Facilitates real-time communication between riders, users, and providers. |
| Data | Chat logs, user and provider details. |

**4. Ordering and Delivery Process:**

**Component 1: User Places Order with Preferences**

|  |  |
| --- | --- |
| Identification | CP13 |
| Type | Functional |
| Purpose | Enable users to place orders with specified preferences. |
| Function | * Present menu options for selection. * Allow users to customize orders. * Capture delivery preferences. |
| Subordinates | None |
| Dependencies | User profile, provider menu options. |
| Interfaces | User interface for order placement. |
| Resources | Menu options, user preferences. |
| Processing | Validates and stores user order details. |
| Data | Order information, user preferences. |

**Component 2: Provider Receives and Prepares the Meal**

|  |  |
| --- | --- |
| Identification | CP14 |
| Type | Functional |
| Purpose | Enable providers to receive and prepare user orders. |
| Function | * Receive order details. * Prepare meals according to user specifications. |
| Subordinates | None |
| Dependencies | User order details, provider menu options. |
| Interfaces | Provider interface for order management. |
| Resources | Order details, meal preparation facilities. |
| Processing | Validates and processes user orders. |
| Data | Order details, meal preparation status. |

**Component 3: Rider Picks up and Delivers the Order**

|  |  |
| --- | --- |
| Identification | CP15 |
| Type | Functional |
| Purpose | Enable riders to pick up and deliver prepared orders to users. |
| Function | * Receive order details. * Pick up prepared orders. * Deliver orders to users. |
| Subordinates | None |
| Dependencies | User order details, provider preparation status. |
| Interfaces | Rider interface for order handling. |
| Resources | Delivery vehicle, prepared orders. |
| Processing | Validates and processes user orders, facilitates delivery. |
| Data | Order details, delivery status. |

**Component 4: Real-time Tracking for Users**

|  |  |
| --- | --- |
| Identification | CP16 |
| Type | Functional |
| Purpose | Enable users to track the real-time location of their orders. |
| Function | Provide real-time location updates during the delivery process. |
| Subordinates | None |
| Dependencies | User order details, rider location services. |
| Interfaces | User interface for order tracking. |
| Resources | Real-time location data. |
| Processing | Retrieves and displays real-time order location data. |
| Data | Real-time order location information. |

**Component 5: Communication Channels (Chat)**

|  |  |
| --- | --- |
| Identification | CP17 |
| Type | Functional |
| Purpose | Facilitate communication channels between users, providers, and riders. |
| Function | Enable in-app chat for coordination and updates. |
| Subordinates | None |
| Dependencies | User, provider, and rider profiles, communication channels. |
| Interfaces | In-app chat interface. |
| Resources | Chat functionality, user, provider, and rider profiles. |
| Processing | Facilitates real-time communication between users, providers, and riders. |
| Data | Chat logs, user, provider, and rider details. |

**3.4 Component Diagram**

A diagram of a computer program

Description automatically generated

**3.5 Deployment  Diagram**

A diagram of a delivery service

Description automatically generated

**4. User Interface Design**

**4.1 Section Overview**

This section presents a comprehensive overview of the user interface design for the FoodSub application. It covers design conventions, GUI components, and provides a detailed description of the user interface with references to screen images. 

**4.2 Application Modules**

**4.2.1 User Module**

**Functionality:**

* User registration and authentication.
* User profile management (view, edit).
* Dietary preferences management.
* View order history.
* Provide feedback and ratings.
* Real-time order tracking.

**4.2.2 Provider Module**

**Functionality:**

* Restaurant (provider) registration and authentication.
* Manage restaurant profile information.
* Menu management (add, edit, delete items).
* View and manage incoming orders.
* Set availability status (open/close).
* Receive and respond to user feedback.

**4.2.3 Rider Module**

**Functionality:**

* Rider registration and authentication.
* Manage rider profile information.
* Accept and manage delivery assignments.
* View order details and delivery addresses.
* Real-time tracking of delivery route.
* Confirm order delivery.

**4.2.4 Order Module**

**Functionality:**

* Place new orders.
* Browse and select menu items.
* Customize meal orders (portion size, ingredients).
* Choose delivery preferences (date, time).
* View and update order status.
* Receive order confirmation notifications.

**4.2.5 Payment Module**

**Functionality:**

* Secure payment processing.
* Multiple payment options (credit card, cash on delivery).
* Store and manage user payment information securely.
* Generate and send electronic receipts.

**4.2.6 Feedback Module**

**Functionality:**

* Collect and store user feedback.
* Allow users to rate meals, providers, and riders.
* Display aggregated ratings and reviews.
* Provide feedback to providers and riders.
* In-app chat functionality for communication.

**4.3 Interface Design Rule**

Here are some of the most important interface design rules:

* **Consistency:** Maintain a consistent design throughout the application to provide a unified and predictable user experience.
* **Simplicity:** Keep the interface simple and intuitive, avoiding unnecessary complexity that might confuse users.
* **Clarity:** Ensure that interface elements and actions are clear, using clear labels, icons, and instructions for users.
* **Hierarchy:** Establish a clear visual hierarchy to guide users through the interface, emphasizing important elements and maintaining a logical flow.
* **Navigation:** Design a clear and easy-to-use navigation system, allowing users to move between sections of the application seamlessly.
* **Feedback:** Provide immediate and clear feedback for user actions to acknowledge their interactions with the application.
* **Responsiveness:** Ensure the interface responds quickly to user input, minimizing delays that could lead to frustration.
* **Readability:** Use legible fonts, appropriate font sizes, and maintain proper contrast for text and background colors.
* **Whitespace:** Utilize whitespace effectively to enhance readability and prevent visual clutter, allowing users to focus on essential elements.
* **Color Scheme:** Choose a harmonious color scheme that aligns with the brand and creates a visually pleasing experience.
* **Accessibility:** Design with accessibility in mind, ensuring that the interface is usable for individuals with disabilities.
* **User Testing:** Conduct usability testing with real users to identify and address any issues, improving the overall user experience.
* **Mobile Responsiveness:** Design a responsive interface that adapts well to different screen sizes, providing a consistent experience across devices.
* **Error Handling:** Design clear and user-friendly error messages, offering guidance on how users can resolve issues.
* **Loading Indicators:** Use loading indicators to inform users when the application is processing data, managing user expectations.

**4.4 Wireframes**

First prototype:

A green and white logo

Description automatically generated

A bowl of food with text and a green background

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**5.6 GUI Components**

Graphical User Interface (GUI) components are visual elements used in software applications to interact with users. These components enable users to input information, view output, and interact with the application.

* **Textboxes/Text Fields:** Textboxes allow users to input text or numeric data. They are commonly used for forms, search boxes, or any input requiring alphanumeric characters.
* **Buttons:** Buttons are interactive elements that users click to perform actions. They can initiate processes, submit forms, or navigate within the application.
* **Dropdown Menus/Combo Boxes:** Dropdown menus or combo boxes provide a list of options, and users can select one from the list. They are useful for conserving screen space.
* **Icons:** Icons are small graphical representations used to convey actions, information, or navigation. They can improve visual appeal and provide quick recognition.
* **Image Panes:** Image panes display images or graphics within the interface. Users may interact with these components to view or manipulate images.
* **Date Pickers:** Date pickers enable users to select a date from a calendar interface. They are commonly used in forms or date-related tasks.
* **Text Areas:** Text areas are larger than textboxes and allow users to input multiple lines of text. They are used for longer-form content.
* **Grids and Tables:** Grids and tables organize data into rows and columns. Users can interact with the data, such as sorting or filtering.

**4.7 GUI**

A screenshot of a phone

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A screenshot of a phone

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**4.8 Sequence Diagram**

A screenshot of a menu

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A diagram of a server

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**5 Reuse and relationships to other products**

**5.1 Section Overview**

The following subsections provide insights into the role of reuse in our product design and implementation, emphasizing the absence of external codebases or modules

**5.2 Role of Reuse in product design**

In the FoodSub project, the role of reuse in product design is pivotal for creating a cohesive and efficient food subscription app. By standardizing user interface components, design patterns for different panels, meal customization modules, feedback mechanisms, and order processes, the project ensures a consistent and familiar experience for users, providers, and riders. Reusable elements for cross-platform design, database schema, payment processes, and communication modules contribute to scalability and ease of maintenance. This strategic use of reuse enhances development efficiency, reduces costs, and establishes a unified and user-friendly design across the entire FoodSub ecosystem.

**5.3** **Role of Reuse in Product Implementation**

In the implementation phase of the FoodSub project, the strategic use of reuse plays a critical role in optimizing development efforts and ensuring a cohesive app experience. By reusing code components, UI elements, backend modules, and security measures, the project achieves efficiency and consistency across different functionalities. This approach streamlines processes such as payment integration, communication protocols, and cross-platform development, leading to a robust and scalable system. Additionally, the use of reusable testing modules enhances the quality assurance process. Ultimately, the role of reuse in product implementation not only accelerates development but also establishes a foundation for future scalability and adaptability within the FoodSub ecosystem.

**5.4 Block Diagram**

A diagram of a flowchart

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**6. Design decisions and tradeoffs**

**6.1 Section overview**

In this section, we present the key design decisions and tradeoffs made during the development of the FoodSub application. Each decision has been carefully considered to align with project goals and constraints.

**6.2 User Interface Design Choices:**

**Simplistic and Intuitive Layout:** The app prioritizes a simplistic and intuitive layout, making it easy for users to navigate and understand its features. This choice enhances user experience by reducing complexity and ensuring straightforward interactions.

**Consistent Branding and Color Scheme:** A consistent branding strategy, including a cohesive color scheme, is a standout design choice. This not only creates a visually appealing interface but also strengthens brand recognition, fostering a sense of trust and familiarity among users.

**Responsive Design for Cross-Platform Consistency:** he decision to implement a responsive design is crucial for providing a consistent and seamless experience across different devices and platforms. This choice ensures that both Android and iOS users encounter a unified and well-adapted UI, enhancing accessibility and user satisfaction.

**6.3 Authentication and Authorization**

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**6.4 Database Management**

In the FoodSub project, effective database management is essential for storing and retrieving data related to users, providers, meals, orders, and other crucial information. The database serves as the backbone of the application, facilitating seamless interactions and ensuring data accuracy. Here are key aspects of database management in this project:

**Relational Database Structure:** The project adopts a relational database model to establish structured relationships between different entities such as users, providers, and meals. This structure supports efficient data organization and retrieval.

**User Profiles and Authentication:** User profiles, including personal information, preferences, and order history, are stored securely in the database. Authentication and authorization mechanisms are implemented to ensure data privacy and user-specific access.

**Provider Information and Menus:** The database manages comprehensive information about food providers, including details about their services, menus, and meal options. This enables users to access diverse meal plans and customize their orders based on provider offerings.

**Order Processing and Tracking:** The database plays a crucial role in order processing and tracking. It stores real-time information about order status, delivery schedules, and transaction details. This information is accessible to users, providers, and riders for a synchronized experience.

**Feedback and Reviews:** Data related to user feedback and reviews is systematically stored in the database. This information contributes to improving the overall service quality and allows users to make informed decisions based on the experiences of others.

**Scalability and Performance Optimization:** The database architecture is designed with scalability in mind to accommodate the potential growth of users, providers, and data volume. Performance optimization techniques, such as indexing, are implemented to ensure efficient query execution.

**Data Integrity and Consistency:** Measures are in place to maintain data integrity and consistency. This includes the use of constraints, validation rules, and transaction management to prevent data anomalies and ensure the reliability of information.

**Security Measures:** Robust security measures are implemented to protect sensitive user data. Encryption, secure access controls, and regular security audits are employed to safeguard the database against unauthorized access and potential breaches.

**Backup and Recovery Procedures:** Regular backup procedures are established to prevent data loss. In the event of system failures or unforeseen circumstances, recovery mechanisms are in place to restore the database to a consistent and functional state.

**API Integration:** The database integrates seamlessly with application programming interfaces (APIs) to support data exchange between different components of the FoodSub app. This integration ensures smooth communication between the frontend, backend, and external services.

**API Specifications**

**6.4.1 User API**

* **User Registration API:**
* **Endpoint:** /controller/user.controller/register
* **Method:** POST
* **Functionality:** Allows users to register by providing necessary information.
* **User Authentication API:**
* **Endpoint:** /controller/user.controller/login
* **Method:** POST
* **Functionality:** Authenticates users and generates access tokens.
* **Dietary Preferences API:**
* **Endpoint:** /controller/menu.controller/allmenuwn
* **Method:** POST
* **Functionality:** Manages user's dietary preferences.
* **Order items API:**
* **Endpoint:** /controller/item.controller/getitem
* **Method:** GET, POST
* **Functionality:** Retrieves a list of user's order history.

**6.4.2 Provider API**

* **Provider Registration API:**
* **Endpoint:** /controller/user.controller/register
* **Method:** POST
* **Functionality:** Allows providers (restaurants) to register.
* **Provider Authentication API:**
* **Endpoint:** /controller/user.controller/login
* **Method:** POST
* **Functionality:** Authenticates providers and generates access tokens.
* **Menu Management API:**
* **Endpoint:** /controller/menu.controller
* **Method:** GET, POST, UPDATE, ALL, DELETE
* **Functionality:** Manages the menu by adding, updating, and deleting menu items.
* **Order Handling API:**
* **Endpoint:** /controller/item.controller
* **Method:** GET, PUT, DELETE
* **Functionality:** Retrieves, deletes and updates the status of incoming orders.

**6.4.3 Rider API**

* **Rider Registration API:**
* **Endpoint:** /controller/user.controller/register
* **Method:** POST
* **Functionality:** Allows riders to register.
* **Rider Authentication API:**
* **Endpoint:** /controller/user.controller/login
* **Method:** POST
* **Functionality:** Authenticates riders and generates access tokens.

**6.5 Chat Handling Messages**

**The top four features of chat handling messages in the FoodSub app are:**

**1. Real-Time Notifications:** Users, providers, and riders receive real-time notifications for new messages, ensuring prompt and timely communication. This feature enhances responsiveness and keeps participants informed of important updates.

**2. Chat History and Archives:** The app maintains a comprehensive chat history and archives for each participant, allowing users, providers, and riders to refer back to previous conversations. This feature aids in tracking communication over time and reviewing important details.

**3. Multimedia Support:** The chat functionality supports multimedia elements, enabling users to share images or documents. Providers can use this feature to visually showcase menu items, promotions, or special offerings, enhancing the communication experience.

**4. Security and Data Privacy:** Robust security measures, including end-to-end encryption, are implemented to ensure the privacy and confidentiality of chat messages. This security feature safeguards sensitive information exchanged during communication, promoting a secure and trustworthy platform.

**6.6 Security Measures**

**End-to-End Encryption:** All communication within the app, including chat messages and sensitive user information, is encrypted end-to-end. This robust encryption ensures that data remains confidential and secure, mitigating the risk of unauthorized access.

**Secure Authentication and Authorization:** The app employs secure authentication methods, such as multi-factor authentication or biometric verification, to verify user identities during login. Authorization controls are implemented to restrict access based on user roles, enhancing overall user account security.

**Data Privacy Compliance:** The app adheres to stringent data privacy regulations and standards, implementing measures to protect user privacy. Transparent privacy policies, user consent mechanisms, and compliance with data protection laws contribute to maintaining the privacy and confidentiality of user information.

**6.7 Error Handling**

**6.7.1 Exception Handling**

* **User Interface Feedback:**
* When a user attempts to log in, the system compares the entered password with the stored password associated with the entered username or email.
* If the passwords don't match, the system triggers an error.
* Display a message on the login page indicating that the entered password is incorrect.
* **Error Message on Login Page:**
* Add an error message near the login form. For example: "Incorrect password. Please try again."
* Ensure that the message is displayed prominently and is easily noticeable by the user.
* **Avoid Specifics for Security:**
* Do not specify whether it is the username or the password that is incorrect. This is a security best practice to prevent potential attackers from knowing if they've guessed a valid username.
* A generic error like "Incorrect username or password" is often used.

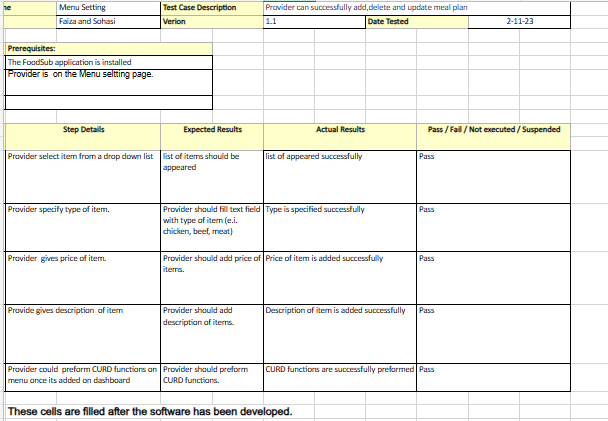
**6.7.2 Error Messages**

A screenshot of a phone

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Description automatically generated

**6.7.3 Test cases**

****

**A close-up of a document

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**A screenshot of a document

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**7. Pseudocode for components**

**7.1 User Registration Component**

FUNCTION registerUser(name, email, password):

    IF validateInput(name, email, password):

        userId = generateUserId()

        user = createUserObject(userId, name, email, password)

        IF sendVerificationEmail(user):

            RETURN "Registration successful. Please verify your email."

        ELSE:

            RETURN "Failed to send verification email. Please try again."

    ELSE:

        RETURN "Invalid input. Please provide valid information."

**7.2 Meal Selection Component**

FUNCTION selectMeal(user, mealPlan, preferences):

    IF user is authenticated:

        selectedMeal = customizeMeal(user, mealPlan, preferences)

        IF selectedMeal is not null:

            RETURN "Meal selected successfully: " + selectedMeal

        ELSE:

            RETURN "Failed to customize meal. Please try again."

    ELSE:

        RETURN "User not authenticated. Please log in."

**7.3 Order Placement Component**

FUNCTION placeOrder(user, selectedMeal, deliveryPreferences):

    IF user is authenticated:

        order = createOrder(user, selectedMeal, deliveryPreferences)

        IF orderService.placeOrder(order):

            RETURN "Order placed successfully. Delivery details will be provided."

        ELSE:

            RETURN "Failed to place order. Please try again."

    ELSE:

        RETURN "User not authenticated. Please log in."

**7.4 Other Supporting Functions (e.g., validation, data retrieval)**

FUNCTION validateInput(name, email, password):

    IF name is not empty AND email is valid AND password meets criteria:

        RETURN true

    ELSE:

        RETURN false

FUNCTION createUserObject(userId, name, email, password):

    CREATE user object with provided information

    RETURN user object

FUNCTION getMealOptions(mealPlan):

    IF mealService.hasMealOptions(mealPlan):

        RETURN mealService.getMealOptions(mealPlan)

    ELSE:

        RETURN null

FUNCTION customizeMeal(user, mealPlan, preferences):

    mealOptions = getMealOptions(mealPlan)

    customizedMeal = applyUserPreferences(mealOptions, preferences)

    RETURN customizedMeal

FUNCTION createOrder(user, selectedMeal, deliveryPreferences):

    order = {

        userId: user.userId,

        meal: selectedMeal,

        delivery: deliveryPreferences

    }

    RETURN order

**7.5 Activity Diagram**

A diagram of a customer

Description automatically generated

**11. Appendices**

All the include diagrams in this document:

|  |  |
| --- | --- |
| **Diagram** | **Description** |
| Class Diagram | Describes the structure of a system |
| Object Diagram | Expresses possible object combinations of a specific Class Diagram |
| ER Diagram | Expresses entity relationship taking place. |
| Activity Diagram | Describes activities and actions taking place in a system |
| Sequence Diagram | Shows one or several sequences of messages sent among a set of objects |
| Collaboration Diagram | Describes a complete collaboration among a set of objects |
| Use-case Diagrams | Illustrates the relationships between use cases |
| Component Diagram | A special case of a Class Diagram used to describe components within a software system |
| Deployment Diagram | A special case of a Class Diagram used to describe hardware within the overall system architecture |
| System Block diagram | A diagram showing the major components of the system with its interconnections and external interfaces |

**8.1 Use case Diagram**

A diagram of a diagram

Description automatically generated

**8.2 ER Diagram**

A diagram of a system

Description automatically generated

**8.3 Collaboration Diagram**

A diagram of a process

Description automatically generated

**Conclusion:**

This Software Design Specifications document provides a comprehensive overview of the architecture, database design, module design, user interface design, security measures, error handling, performance considerations, API specifications, testing strategy, and maintenance plans for the Food Delivery Application.