NAAN MUDHALVAN

PROJECT REPORT ON

SNACK SQUAD: A CUSTOMIZABLE

SNACK ORDERING AND

DELIVERY APP

SUBMITTED BY

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INTRODUCTION

SNACK SQUAD is a user-friendly mobile app that is designed to simplify the snack ordering and delivery process for users. The app has an intuitive interface that makes it easy for users to navigate and find what they are looking for.

With SNACK SQUAD, users can choose from a variety of snacks including chips, cookies, candy, and other popular snack items. The app also allows users to customize their orders by specifying the quantity, flavor, and other preferences.

SNACK SQUAD partners with a network of local vendors and delivery partners to ensure that users receive their orders quickly and efficiently. Users can track their orders in real-time and receive updates on the status of their delivery.

The app also offers a range of payment options, including credit/debit card and mobile wallet payments, to make the ordering and payment process as seamless as possible.

SNACK SQUAD is ideal for busy professionals, students, and anyone who wants to enjoy their favorite snacks without having to leave their homes or offices. The app is available for download on both iOS and Android devices, making it accessible to a wide range of users.

ABOUT THE PROJECT

SNACK SQUAD is a customizable snack ordering and delivery app project that was created with the aim of providing users with an easy and efficient way to order and receive their favorite snacks from various vendors. The project was designed to be user-friendly and intuitive, with a simple interface that allows users to browse through different snack options and customize their orders.

One of the key features of SNACK SQUAD is its wide range of snack options from different vendors. Users can choose from a variety of snacks such as chips, candy, cookies, and other popular items. The app also allows users to customize their orders by selecting their preferred quantity, flavor, and other options.

SNACK SQUAD works with a network of local vendors and delivery partners to ensure that users receive their orders quickly and efficiently. Users can

track their orders in real-time and receive updates on the status of their delivery.

The app also offers various payment options, including credit/debit card and mobile wallet payments, to make the ordering and payment process as seamless as possible.

SNACK SQUAD is ideal for busy professionals, students, and anyone who wants to enjoy their favorite snacks without having to leave their homes or offices. The app is available for download on both iOS and Android devices, making it accessible to a wide range of users.

Overall, SNACK SQUAD is a project that seeks to make snack ordering and delivery more convenient, efficient, and enjoyable for users.

PROBLEM DEFINITION AND DESIGN THINKING

Problem Definition:

The SNACK SQUAD project was developed to solve the problem of limited snack options and inconvenient snack purchasing processes for users. Traditional snack purchasing methods often involve physically visiting a store, limited snack options, and long queues, which can be time-consuming and inconvenient for busy individuals.

Design Thinking:

The SNACK SQUAD project was developed using a design thinking approach that focused on understanding the needs of users and developing a solution that

would meet those needs. The following design thinking steps were taken in developing the project:

Empathize - In this step, the project team sought to understand the challenges faced by snack consumers. They conducted surveys, interviews, and observations to gain insights into users' snack preferences, purchasing habits, and pain points.

Define - With the information gathered in the empathize stage, the project team defined the problem they aimed to solve - the limited snack options and inconvenient snack purchasing processes.

Ideate - In this step, the project team brainstormed various solutions to the problem. They generated ideas for an app that would allow users to easily browse through a wide range of snacks, customize their orders, and have them delivered to their doorsteps.

Prototype - The project team developed a prototype of the app and conducted user testing to gather feedback on its functionality, usability, and overall user experience.

Test - Based on the feedback received, the project team made necessary adjustments to the app and tested it further to ensure that it met the needs and preferences of users.

GOOGLE DEVELOPER PUBLIC PROFILE URL

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Team Member 2- https://g.dev/Shriharis

Team Member3-https://g.dev/Sivaselvan

SYSTEM CONFIGURATION
HARDWARE REQUIRED

The SNACK SQUAD app is a software-based project and does not require any specific hardware. It can be downloaded and installed on any compatible mobile device, such as smartphones and tablets, running either iOS or Android operating systems.

To use the app, users simply need a device with an active internet connection and enough storage space to download and install the app. Additionally, the app may require access to the device's GPS and camera to facilitate location-based services and scanning of QR codes, respectively.

However, it's worth noting that the vendors who partner with SNACK SQUAD for snack delivery may require certain hardware to fulfill orders. For instance, vendors may need delivery vehicles or refrigeration units to keep perishable snacks fresh during transit. But these requirements are specific to the vendors and not directly related to the SNACK SQUAD app itself.

SOFTWARE REQUIRED

Programming languages: The SNACK SQUAD app is built using programming languages such as Java, Swift, and Kotlin, which are commonly used for developing mobile applications.

Integrated Development Environment (IDE): An IDE such as Android Studio or Xcode is required for developing the app. These IDEs provide a platform for coding, debugging, and testing the app.

Backend technology: The app's backend is powered by server-side technologies such as Node.js, PHP, or Python, which handle the app's data storage, processing, and authentication.

Application Programming Interfaces (APIs): SNACK SQUAD uses various APIs to facilitate interactions between different parts of the app. For instance, it may use Google Maps API for location services or Stripe API for payment processing.

Database management system: The app's data is stored in a database management system (DBMS) such as MySQL, MongoDB, or Firebase Realtime Database.

Cloud computing platform: SNACK SQUAD may use cloud computing platforms such as Amazon Web Services (AWS) or Google Cloud Platform (GCP) to host the app's backend and database.

Version control software: Version control software such as Git is used to manage the codebase and facilitate collaboration among developers working on the app.

These are some of the software tools and technologies required to develop and operate the SNACK SQUAD app. The specific software used may vary based on the preferences of the development team and the app's requirements.

ADVANTAGE AND DISADVANTAGE

Advantages:

Convenient: The SNACK SQUAD app provides a convenient and easy-to-use platform for users to browse and order snacks from the comfort of their own homes or workplaces.

Customizable: Users can customize their snack orders according to their preferences, dietary restrictions, and budget.

Wide variety of snacks: The app offers a wide range of snacks from different vendors, providing users with more options than they might have had through traditional snack purchasing methods.

Delivery services: The app also provides delivery services, which saves users time and effort that would have been spent physically visiting a store.

Digital payments: The app allows users to make digital payments, eliminating the need for cash transactions.

Disadvantages:

Dependence on technology: The SNACK SQUAD app relies heavily on technology, which means that users must have access to compatible devices and internet connectivity to use it.

Potential technical issues: Technical issues such as app crashes, slow loading times, or connectivity problems may occur, causing inconvenience to users.

Delivery fees: The app may charge delivery fees, which could increase the overall cost of snack orders.
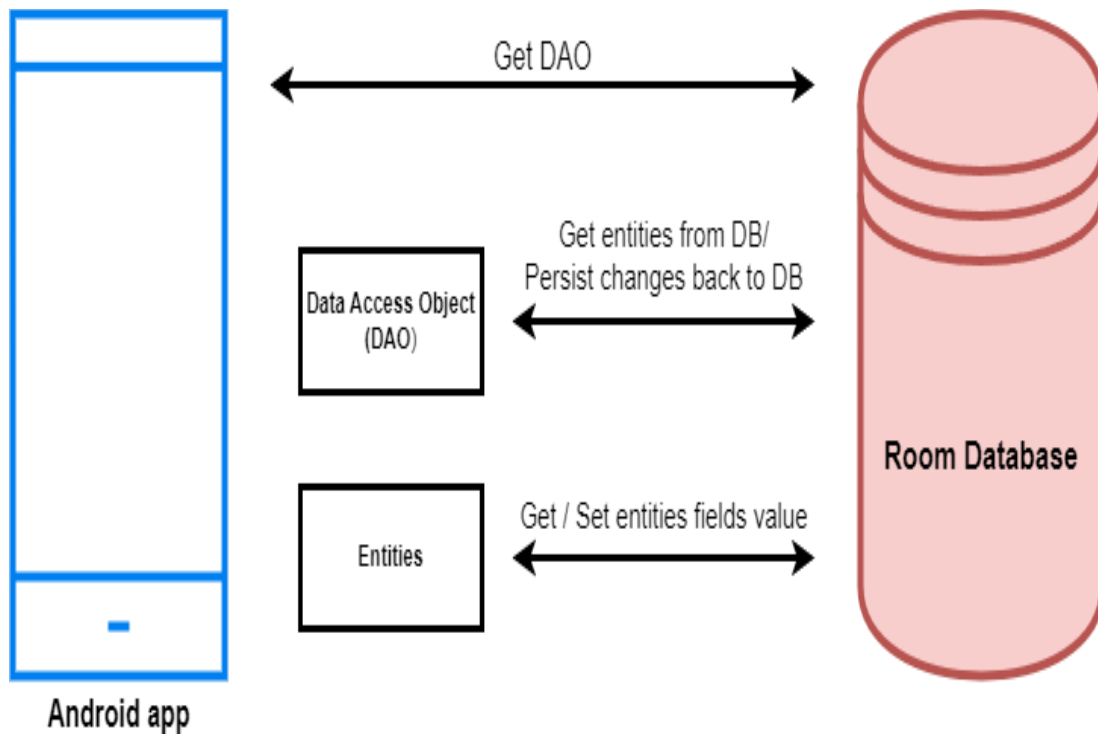
Limited geographic coverage: The app may not be available in all locations, which limits its accessibility to some users.

Quality control issues: Since the app relies on vendors to provide the snacks, there may be quality control issues such as inconsistent snack quality, delayed deliveries, or incorrect orders.

APPLICATIONS

1. Office and workplace snack delivery: The app can be used by companies and offices to offer snack delivery services to their employees, providing a convenient and hassle-free way for employees to order and receive snacks during their workday.

2. Event catering: The app can also be used by event organizers to offer snack catering services to their attendees, providing a customizable and convenient snack ordering system.

3. College and university campuses: The app can be used by colleges and universities to offer snack delivery services to their students, providing a convenient and customizable solution to traditional snack purchasing methods.

4. Hospitals and healthcare facilities: The app can be used by hospitals and healthcare facilities to offer snack delivery services to patients and visitors, providing a convenient and customizable solution to traditional snack purchasing methods.

5. Online snack store: The app can also be used as an online snack store, allowing vendors to sell their snacks through the app and providing customers with a wide range of snack options.
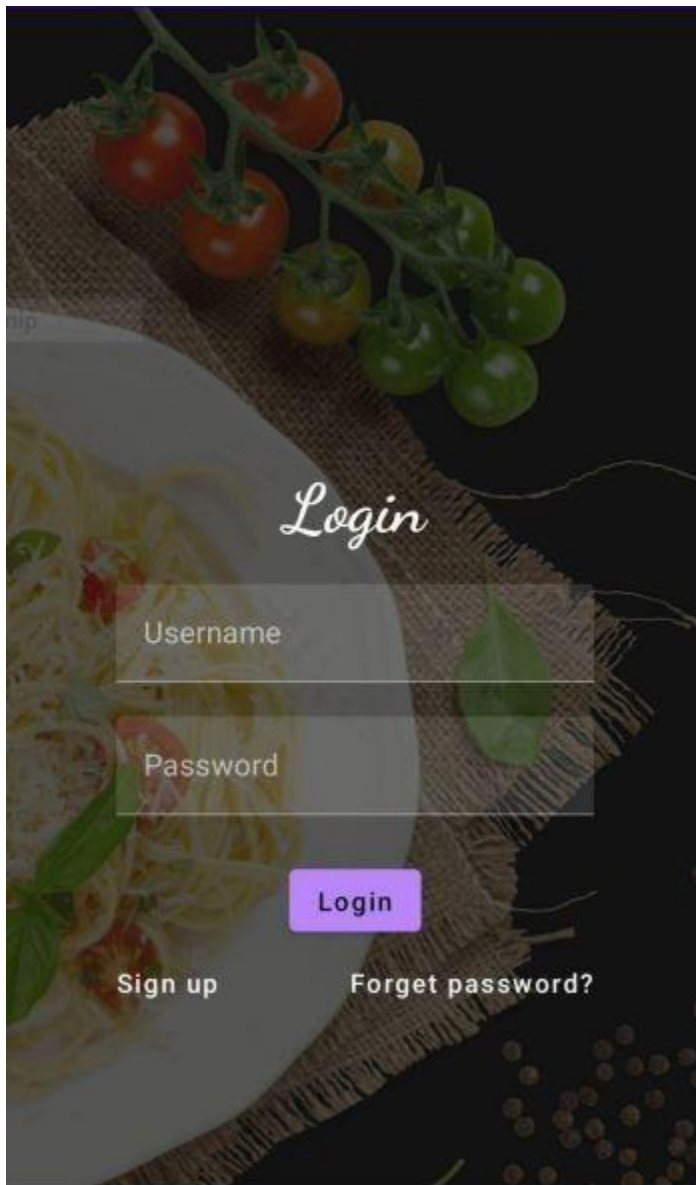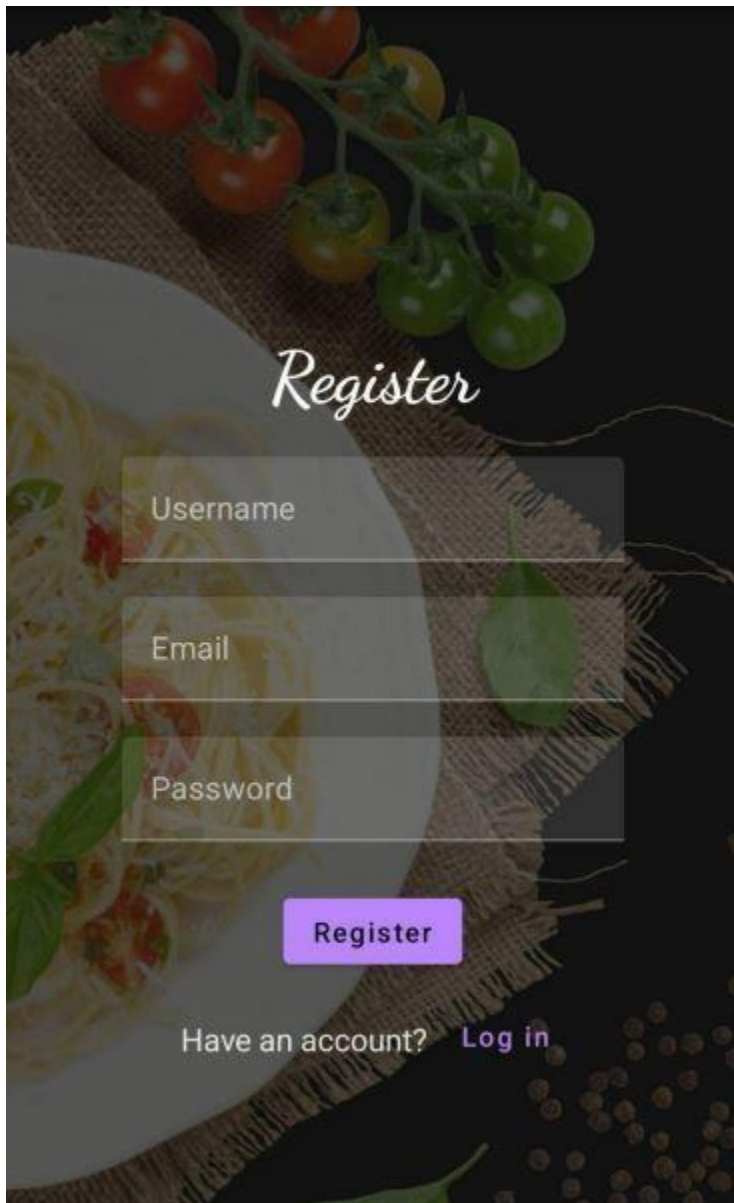
ARCHITECTURE

Get DAO

Get entities from DB/
Persist changes back to DB

Data Access Object
(DAO)

Get / Set entities fields value

Entities

Room Database

Android app

RESULT

OUTPUT OF THE APPLICATION

Admin Module: After logging in with Admin Credentials which are hard coded.

LOGIN PAGE:

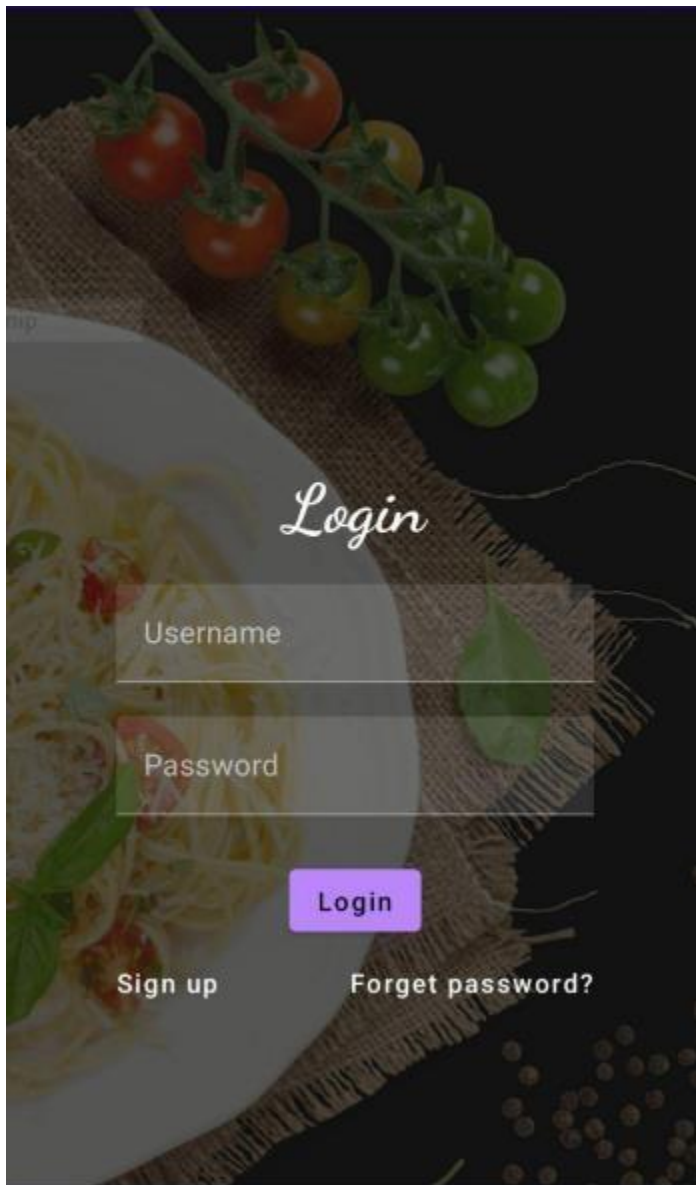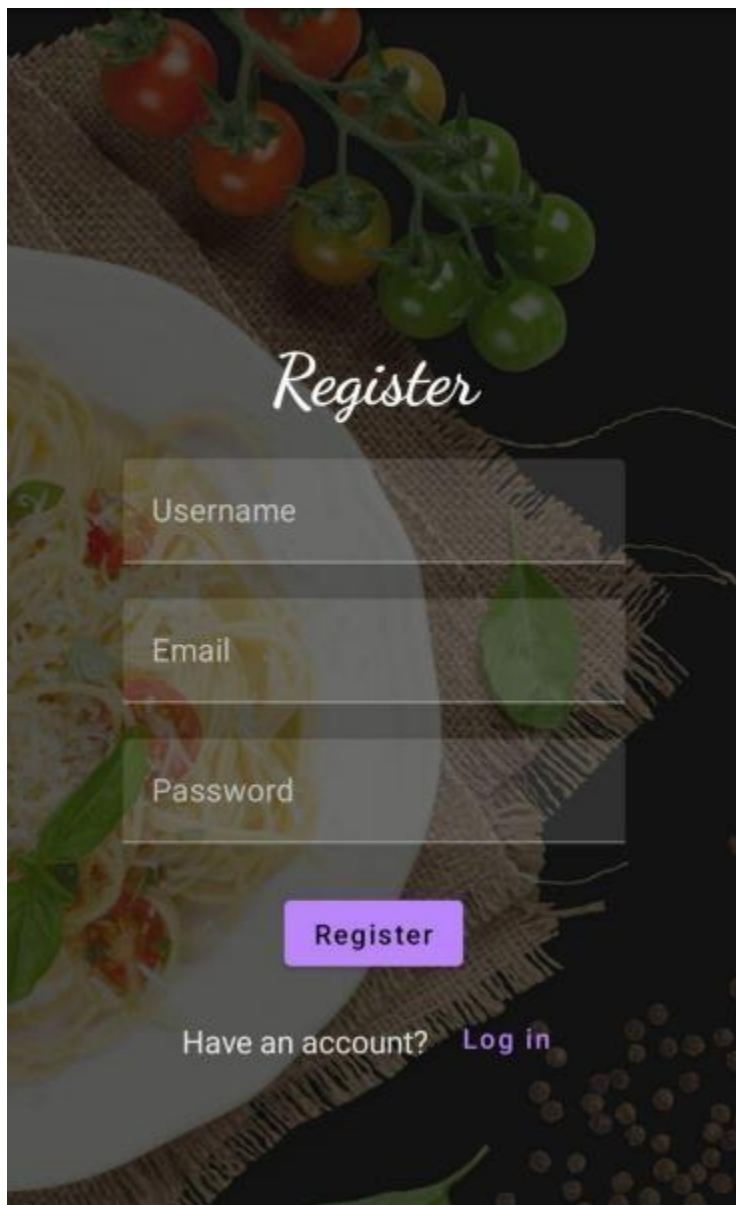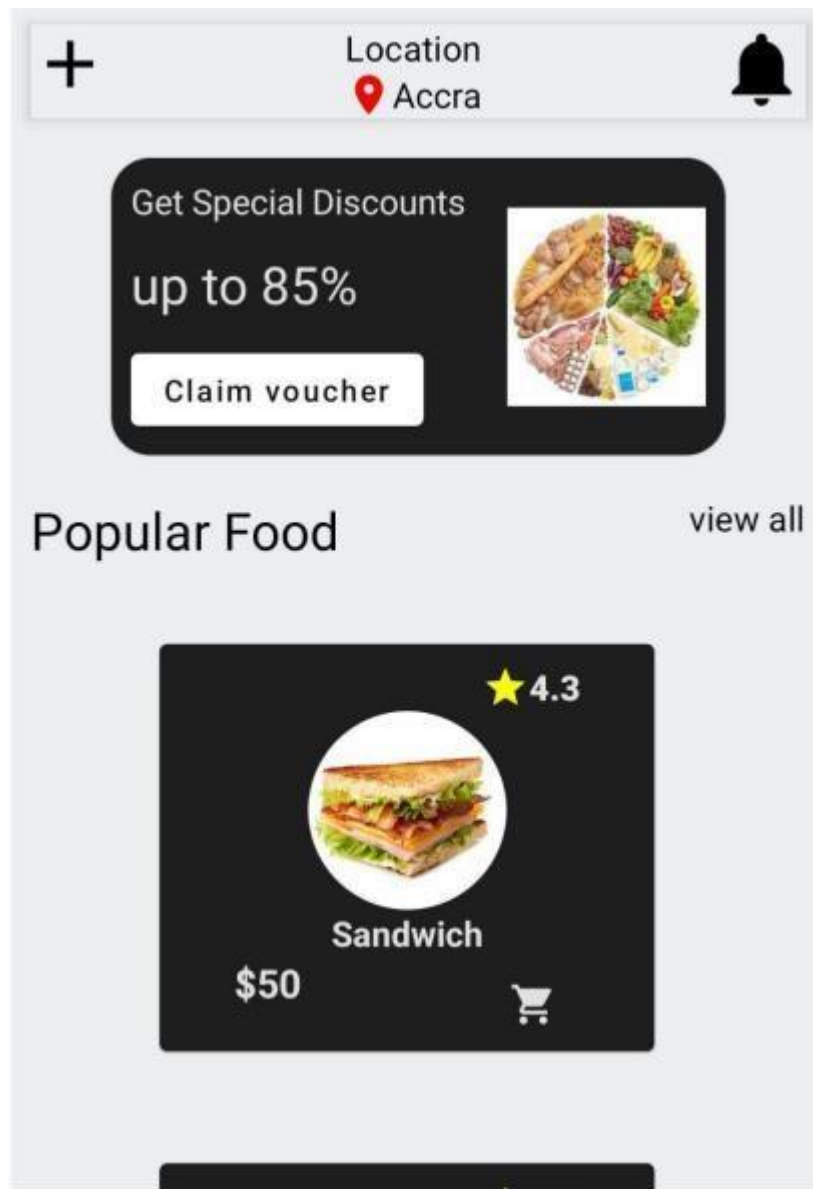**REGISTER PAGE:**

ADMIN PAGE:
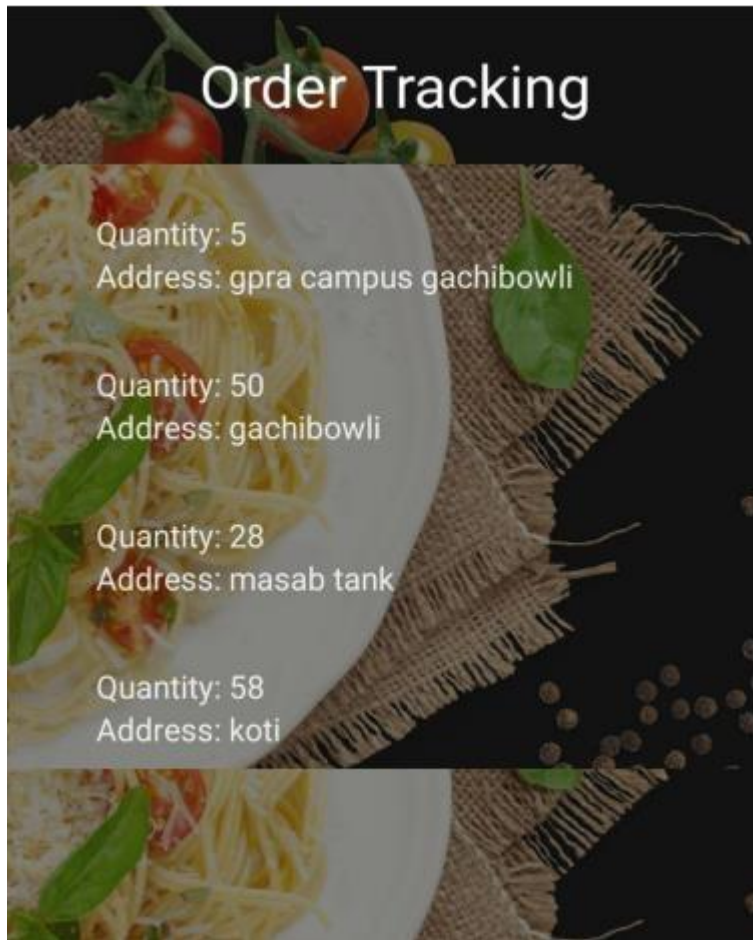
User Module: Login
Page :

Register Page :

MAIN PAGE:

Location
📍 Accra

Get Special Discounts

up to 85%

Claim voucher

Popular Food   view all

⭐ 4.3

Sandwich
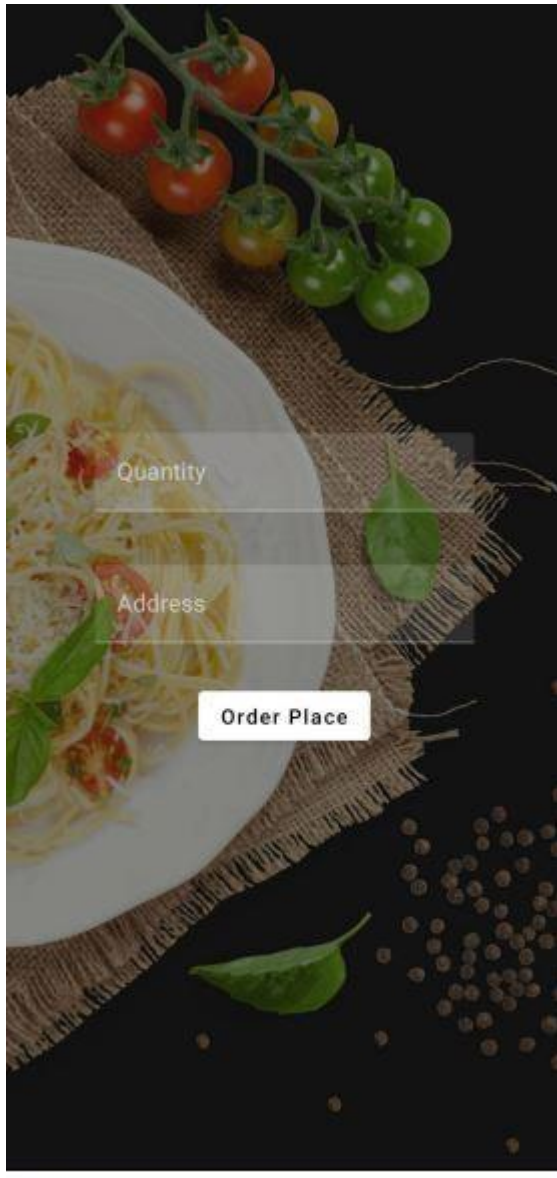$50   🛒

ORDER PAGE:

CONCLUSION

In conclusion, the SNACK SQUAD app is a customizable snack ordering and delivery platform that offers a convenient solution to traditional snack purchasing methods. With a wide range of snacks from different vendors and customizable snack orders, the app provides users with more options and flexibility than they might have had otherwise. Additionally, the app's delivery services and digital payments options make snack ordering and delivery more accessible and convenient than ever before. While there are some potential drawbacks associated with the app, such as technical issues and delivery fees, overall, the SNACK SQUAD app has various potential applications in different industries and provides a convenient and customizable solution to traditional snack purchasing methods.

FUTURE SCOPE

1. Expansion to new geographic regions: The app can be expanded to cover new geographic regions and countries, making it accessible to a larger user base.

2. Integration with third-party services: The app can be integrated with third-party services such as loyalty programs or meal planning apps, providing users with additional benefits and features.

3. Diversification of snack options: The app can expand its snack options to include more diverse and specialized snacks, catering to users with specific dietary needs and preferences.

4. Inclusion of user-generated content: The app can include user-generated content such as reviews and ratings, allowing users to share their experiences and provide feedback on snacks and vendors.

5. Integration with IoT devices: The app can be integrated with Internet of Things (IoT) devices such as smart refrigerators or snack dispensers, providing users with more convenient and seamless snack ordering and delivery experiences.