



Ahsanullah University of Science and Technology (AUST)
Department of Computer Science and Engineering

FOODGRID

Final Report Submission

Course No: CSE 2200

Course Title: Software Development

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Section – A₂

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FOODGRID

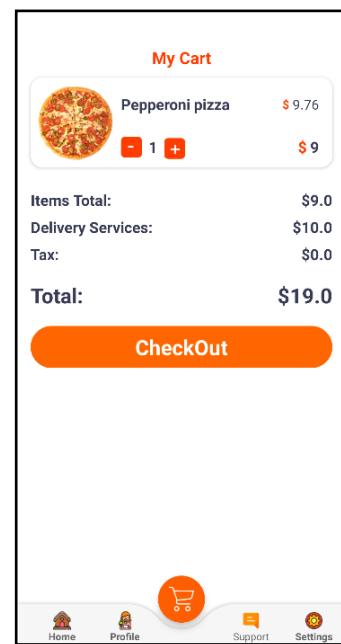
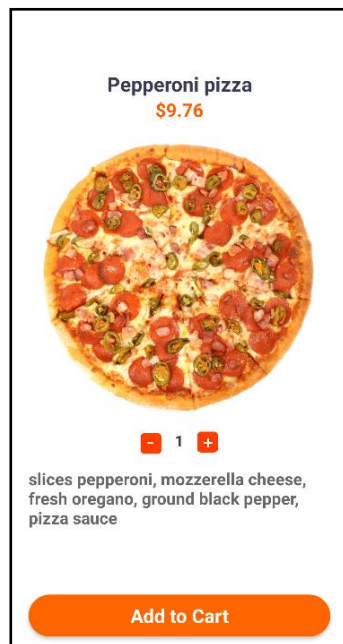
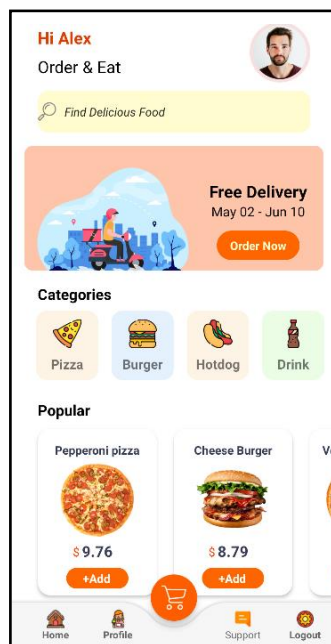
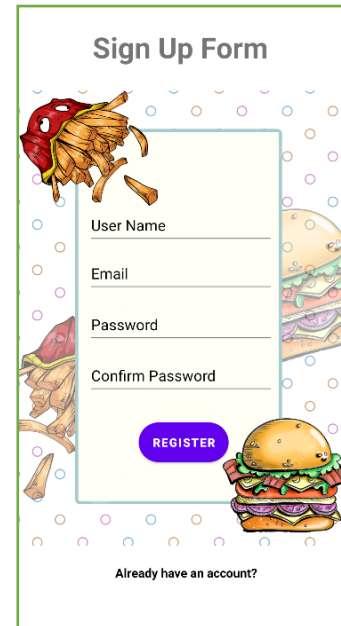
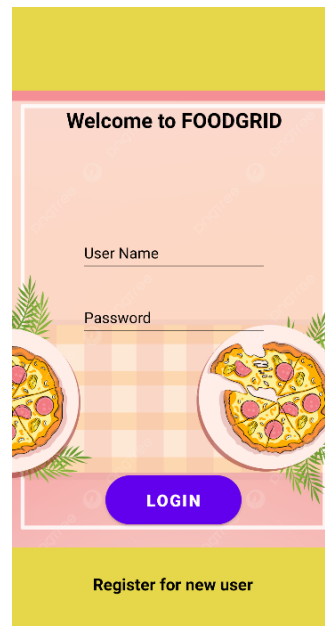
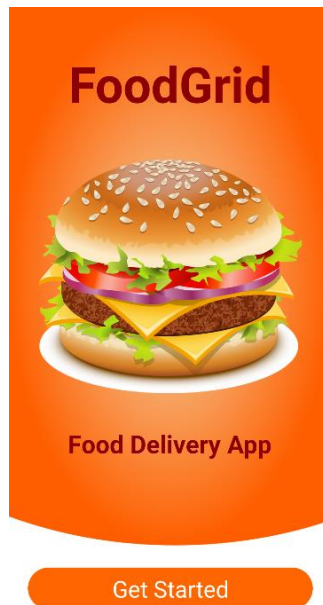
Introduction:

The massive growth in the field of online food delivery has also brought changes to lifestyles and society in general. Food delivery has become an integral part of the modern lifestyle, providing convenience and accessibility to people with busy schedules. With the rise of technology, food delivery applications have become a popular way for people to order food from their favorite restaurants, cafes, and food trucks. Our aim is to provide a seamless and hassle-free food delivery experience to users. **FoodGrid** is an android application where people can buy different types of food without exploring the city where a delivery man can deliver the food and life becomes easier.

Motivation:

The motivation behind FoodGrid application is to provide a convenient and hassle-free option for people to order their favorite foods and drinks. With the busy schedules and fast-paced lifestyle of people, the need for a reliable food delivery service has become increasingly important. We all know that with COVID-19 becoming increasingly widespread again, the lives of people around the world have changed. So, in this Covid situation one can easily buy foods whatever they want without any health risk. Waiting in lines for food is a very common situation in our country and sometime it feels so annoying. Online FoodGrid application will eliminate this problem. In windy weather one can buy delicious food without going anywhere. Moreover, people become very busy nowadays and they don't have much time to buy food by going to the shop. So, they can enjoy delicious food staying at home. Sick people can buy their favorite foods staying at home. This application will also create job opportunities for the new initiators.

Design:



App Specification:

- + Language: Java
- + Platform: Android
- + API Level: 30: Android 7.0(Nougat)

Features:

- + User friendly UI
- + Secure Login
- + Registration
- + Dashboard
- + Food Category
- + Discount Rewards and Cashback
- + Easy Payment Option
- + Easy Order Placement
- + Order Cancelling
- + Order History
- + Reviews and Ratings

Functionalities:

+ Login:

Users can easily login to this healthcare app by applying a valid username and password and access the functionalities of this app. If a user does not have an account, he/she can go to the registration page and make an account.

+ Registration:

If a user does not have an account, he/she can easily make one of his own by giving some simple information like username, email and password. The username must contain alphabet and digits are not allowed. And the password must contain capital letters, small letters, digits and at least a special character for being a valid password. The toast messages also show some important notifications that must be followed.

+ Home:

Home page contains different categories of foods including Pizza, Burger, Donuts, HotDogs and Drinks. One can buy different types of delicious food on clicking the Add button. There is a bottom navigation bar which contains four buttons like Homebtn, profileBtn, supportBtn and logoutBtn. There is a cart button which is used for store data of our shopping.

Payment:

Our project contains easy payment option. One can buy different types of delicious food by pressing add button. After adding food by the user all the information stored in the cart option.

Order Cancelling:

Users can cancel the order at any time. If he/she wants to cancel the order he/she have to go to the cart option and cancel the food.

Logout:

Which allows the user to securely log out of the application.






Implementation Approach:

UI Design:

The user interface of the application will be designed using Android Studio, a popular development environment for building Android applications. The design will be created using XML layouts and Material Design guidelines. The user interface will be designed to be responsive and easy to navigate.

Back-end development:

The back-end of the application will be developed using Java. We use SQLite for storing data. SQ Lite provides a cloud-based database, authentication, and hosting services, which will be used to build the back-end of the application. The back-end will include the following components:

-  User authentication and authorization
-  API endpoints for foods and drinks data
-  API endpoints for order placement and management
-  Payment gateway integration
-  Dashboard for managing foods and order

Problems Faced While Developing the Project:

- ✚ We have faced a huge problem with the emulator. Most of the time the android emulator does not work.
- ✚ After applying constraints of the buttons and other stuffs in the design section, the buttons and important elements were displacing randomly. It was so disturbing for us.
- ✚ We faced problems while transferring our project from one computer to another.
- ✚ We also have faced problems while connecting our project to the database.

But we solved all the problems at last.

Database:

SQLite database is utilized in the FoodGrid application for storing user Login and Registration data and for confirmation purposes. The Database contains essential user information such as their name, email address, phone number and password.

Conclusion:

The FoodGrid application has a significant potential for growth and profitability, with the increasing demand for food delivery services. The application offers a convenient and hassle-free way for users to order food, making it an attractive option for people with busy schedules. FoodGrid application aims to provide a comprehensive solution for users to order their favorite food and drinks. The application offers a user-friendly interface that makes it easy for users to browse through menus, select dishes, and place their order. The real-time tracking of the order, multiple payment options, and the ability to rate and review the restaurant ensures a high-quality experience for the users. FoodGrid is the perfect app for anyone who loves food.