

Express Eats (Snack Squad)

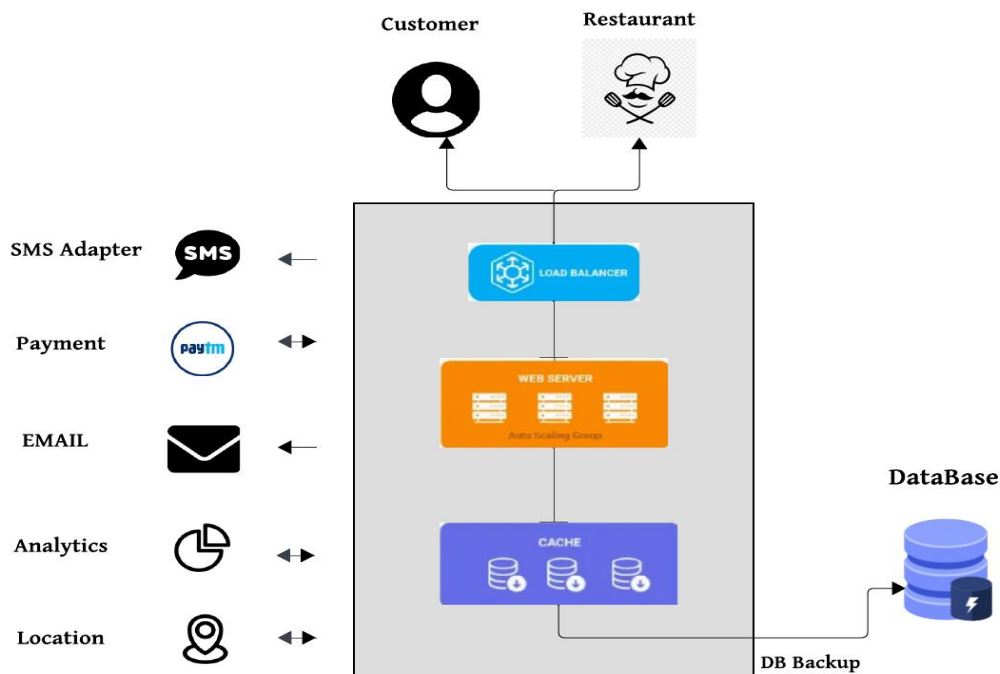
Introduction:

Food ordering apps have become essential for modern life due to their convenience and efficiency. They offer a hassle-free way to access a wide range of restaurant options, browse menus, and place orders at the touch of a button. With features like order tracking, payment options, and customization, these apps save time and provide a seamless dining experience, whether you're dining in or getting your favorite meals delivered to your doorstep. Food ordering apps are a convenient solution for busy individuals seeking a quick and enjoyable way to satisfy their culinary cravings.

Express Eats is your go-to food ordering app, designed to streamline the process of ordering and enjoying your favorite dishes from a variety of restaurants. Whether you're too busy to cook, want to enjoy a restaurant's delicacies at home, or just seeking a convenient dining experience, Express Eats is here to make your culinary journey hassle-free and delightful.

With a transparent and competitive commission fee structure, we reduce the financial burden on our restaurant partners. Our coupon system offers savings for customers while driving more business to our partner restaurants. Secure payment options, with industry-standard security protocols, protect financial data. The order process is hassle-free, with clear confirmation and tracking, and customers can access their order history for easy reordering and tracking past transactions.

Technical Architecture:



Prerequisites:

To complete this project, you must require the following software's, concepts, and packages
Software:

a. Android Studio:

Android Studio is the official integrated development environment for Android app development, providing tools, emulators, and resources for building Android applications.

b. Kotlin:

Kotlin is a modern, concise, and versatile programming language for Android development, known for its enhanced readability and maintainability compared to Java.

Concepts:

a. RESTful API (Representational State Transfer):

RESTful APIs are a set of architectural constraints used for designing networked applications. They enable communication between your Android app and a web server, supporting data retrieval and manipulation.

b. Load Balancing:

Load balancing distributes network traffic across multiple servers to ensure high availability and improved performance, making your app more resilient to server failures.

c. Web Servers:

A web server is a software that serves web content to users over the internet. It handles HTTP requests, processes them, and delivers web pages, allowing your app to interact with backend services.

Packages:

- **Material Components for Android:**

Material Components is a design system for Android that offers ready-made UI components and design guidelines to ensure a consistent and visually appealing user interface in your app.

- **ViewModel and LiveData (from Android Architecture Components):**

ViewModel and LiveData are part of Android Architecture Components and are vital for maintaining a separation of concerns and managing UI-related data in your app.

- **Hilt:**

Hilt is a dependency injection library for Android that simplifies the process of injecting dependencies into your app's components, making it easier to manage dependencies and maintain clean code.

- **Room Persistence Library:**

Room is an Android Architecture Component that provides an abstraction layer over SQLite. It simplifies database operations in your app and is an excellent choice for local

data storage.

- **Firebase (Realtime Database, Authentication, Cloud Functions):**
Firebase is a comprehensive platform for mobile and web app development. It offers various services, including a Realtime Database, Authentication, and Cloud Functions, which can be used to handle data, user management, and serverless functions.

Project Objectives:

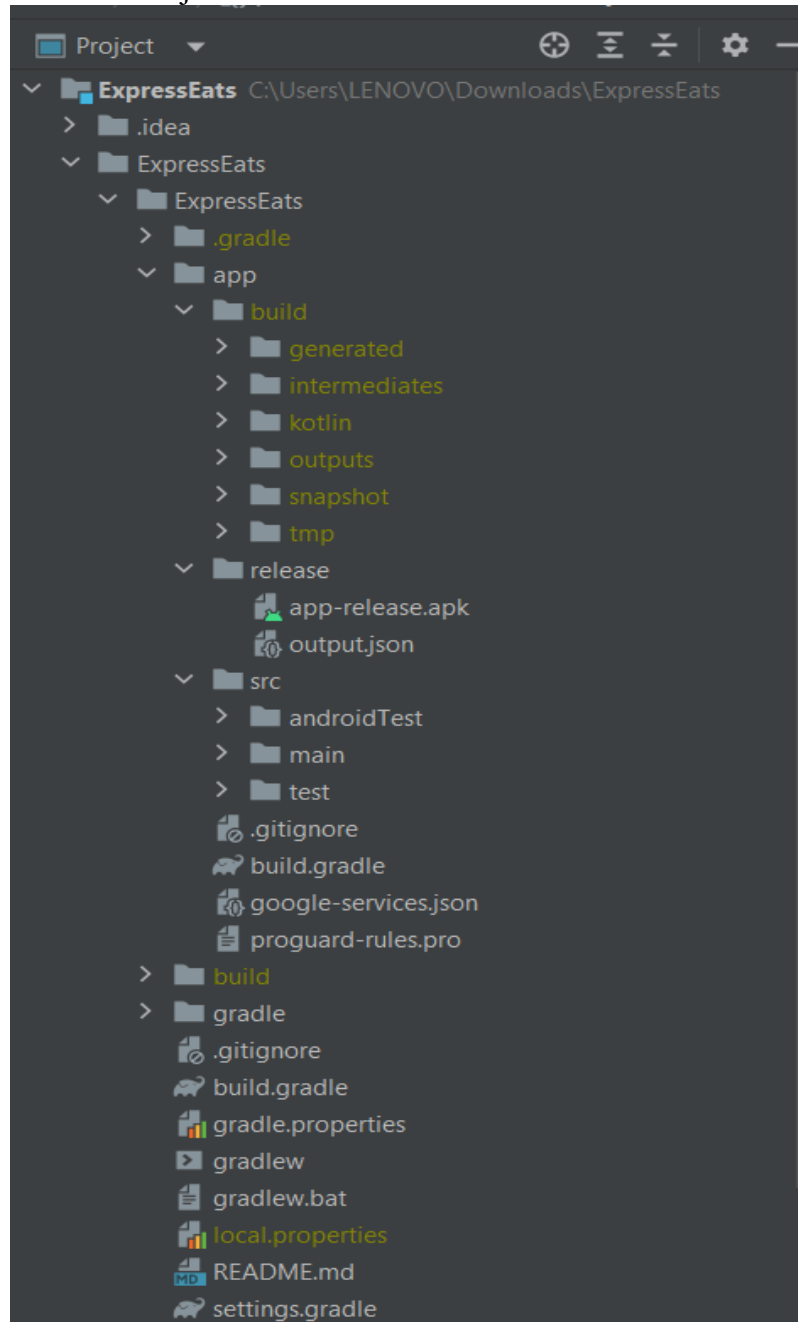
1. **Enhance User Convenience**
Simplify menu browsing, order customization, and secure payments for a seamless user experience.
2. **Expand Restaurant Selection**
Offer a diverse range of restaurants, both for delivery and dining in options.
3. **Ensure Reliability**
Implement order tracking, efficient payment processing, and consistent service quality.
4. **Optimize Performance**
Build a scalable system with load balancing to accommodate growing user demand and maintain efficiency.

Project Flow:

- **Sign-in/Sign-up:** Users start by signing in or creating an account if they're new to the app.
- **Restaurant Selection:** After signing in, users choose between delivery or dining in options.
- **Order Customization:** Users browse the selected restaurant's menu, add items to their cart, and make any desired customizations.
- **Payment Process:** Users proceed to payment, apply any available coupons, and enter their payment information.
- **Order Confirmation:** After confirming the order, the app processes the payment, and users receive a confirmation.
- **Order Tracking:** Users can view their order history and track the status of their current order in the "View My Orders" section.

Project Structure:

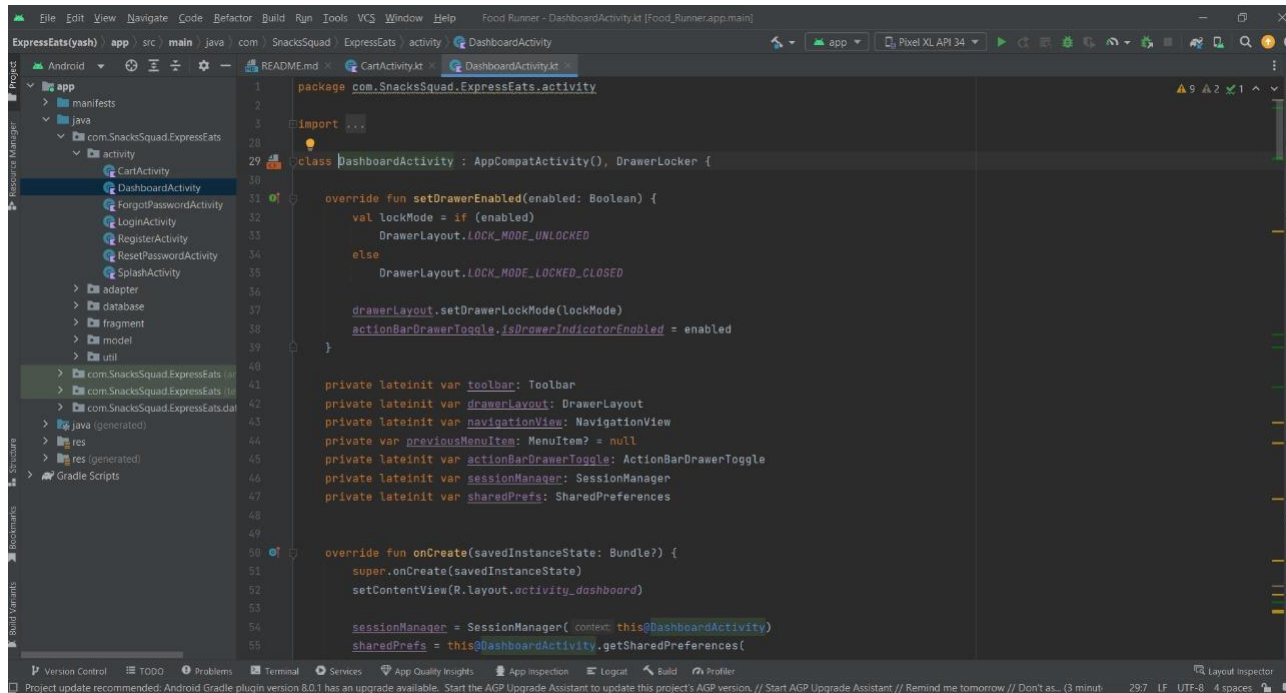
Create a Project folder which contains files as shown below



- **src:** This directory contains the source code for your app. It's further divided into subdirectories, such as:
- **main:** This is where most of your app's code resides.
- **java:** Java/Kotlin source code files for your app.
- **res:** Resources for your app, including XML layout files, drawable, strings, and other assets.
- **test:** Unit tests for your app.
- **build. Gradle:** This is the build configuration file for your app. It contains dependencies, build settings, and other project-level configurations.

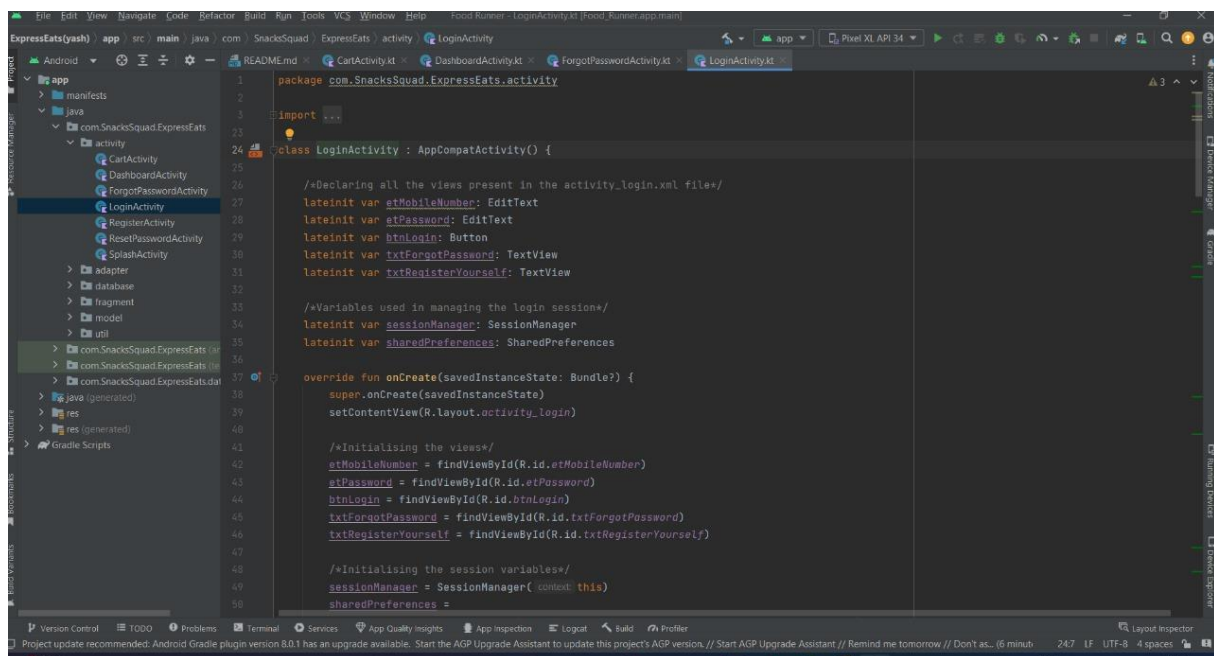
- **AndroidManifest.xml:** This XML file defines essential information about your app, like its name, package name, permissions, and declared activities.

➤ Dashboard Activity



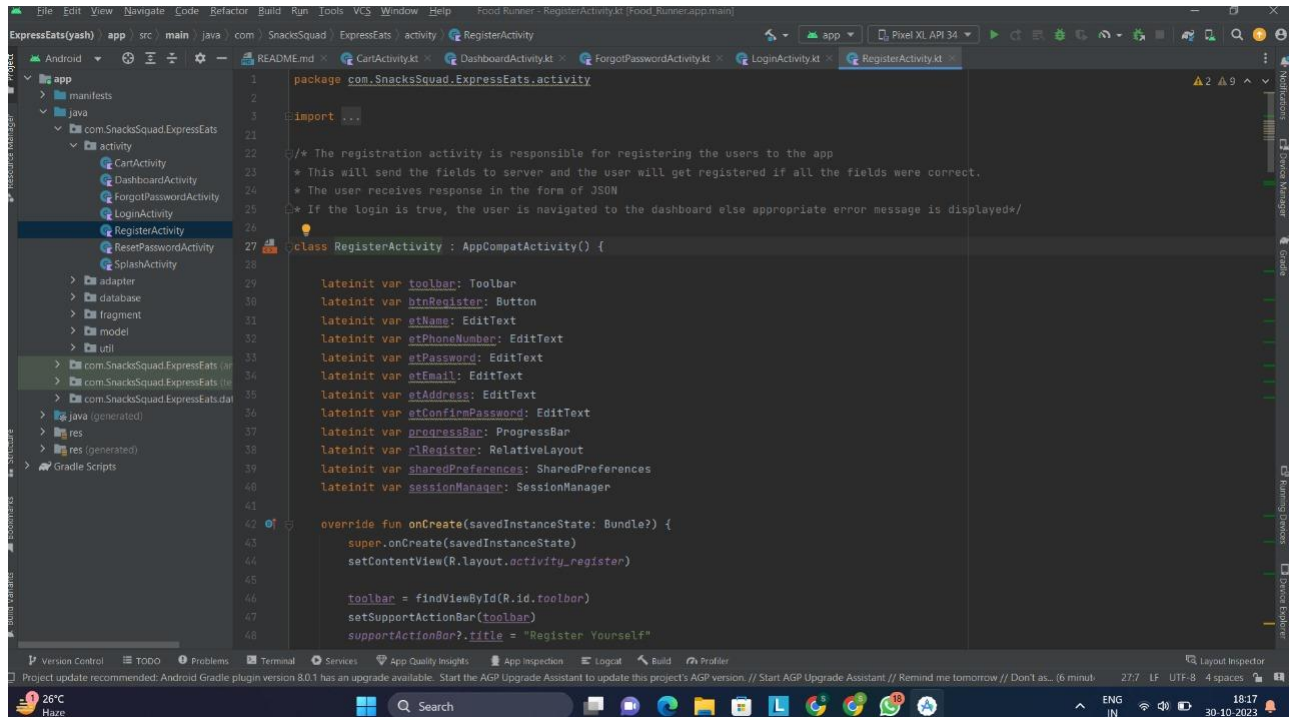
Once the restaurant owner sets up an account. They go back to the home page or dashboard. Here they can keep track of the pending orders, completed orders, and ones on the way to delivery for better insight and summary of what is going on.

➤ Login



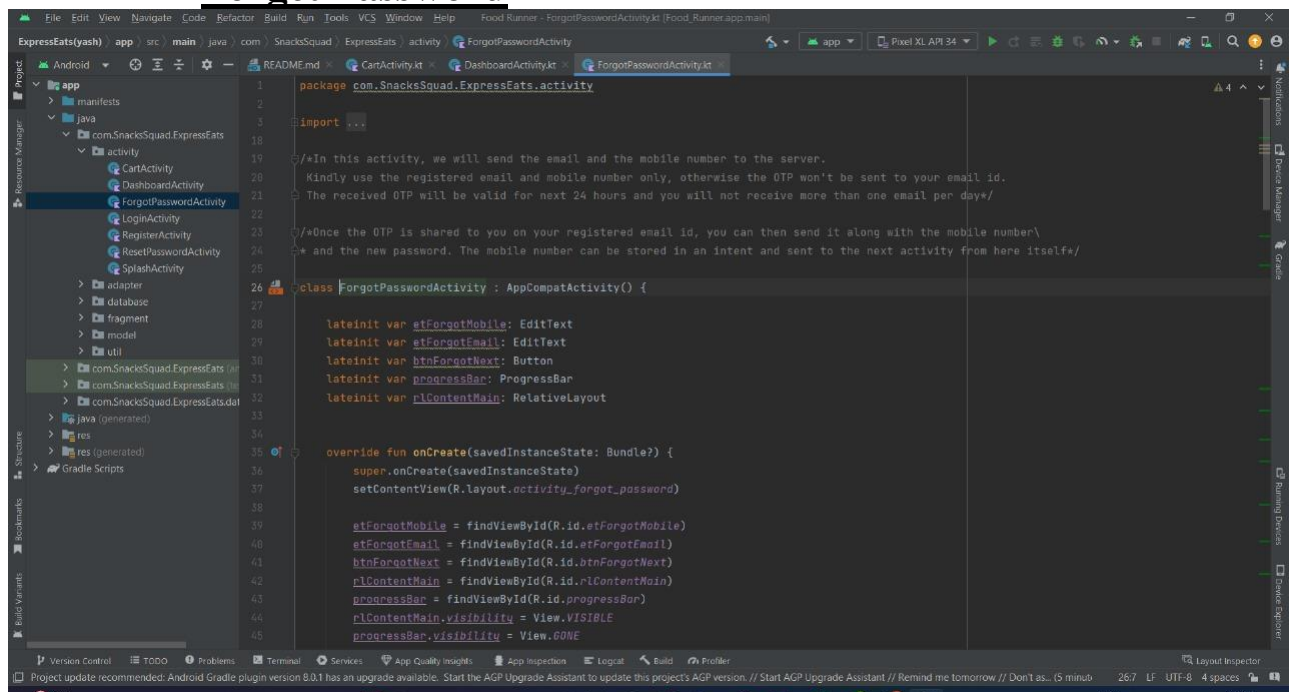
The rider will receive login credentials from the admin to enter the application.

➤ Register/Sign up

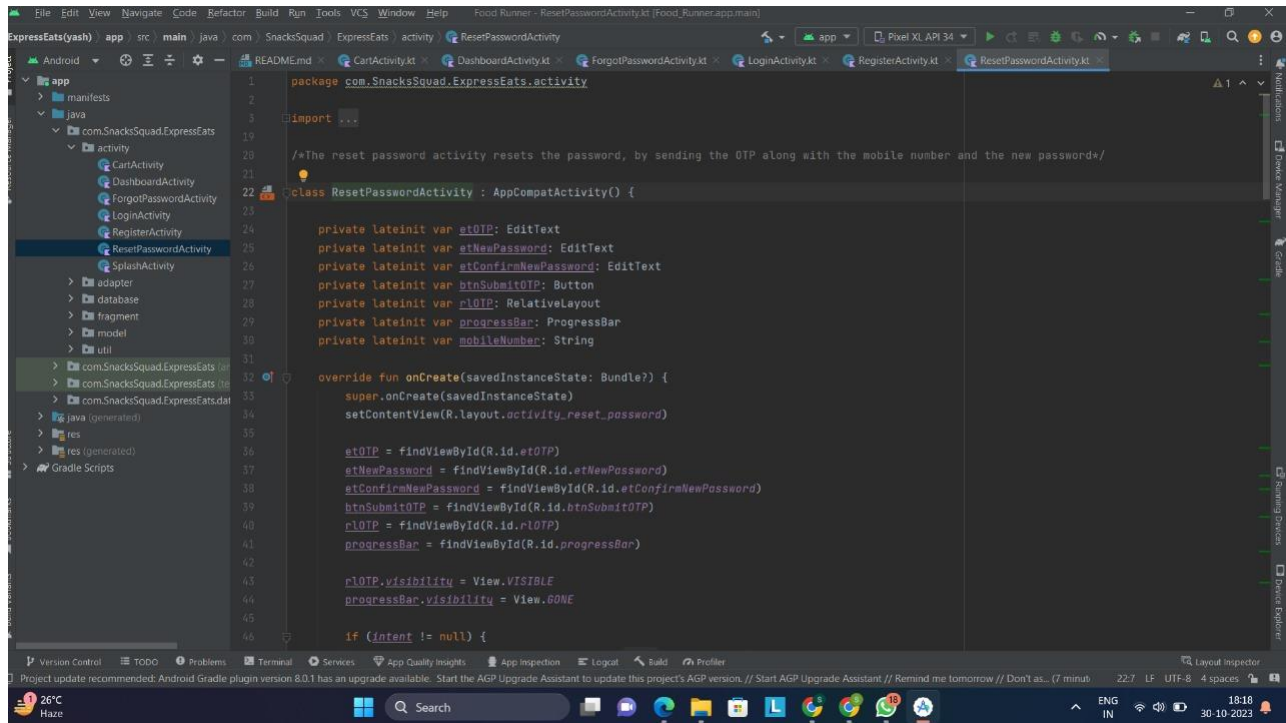


The page is about the sign-up process for a food delivery app. Users visit this page to create an account and gain access to the app's features, such as ordering food, tracking deliveries, and managing their profile. Users typically provide their personal information, including name, email, and password, to register on the platform.

➤ Forget Password

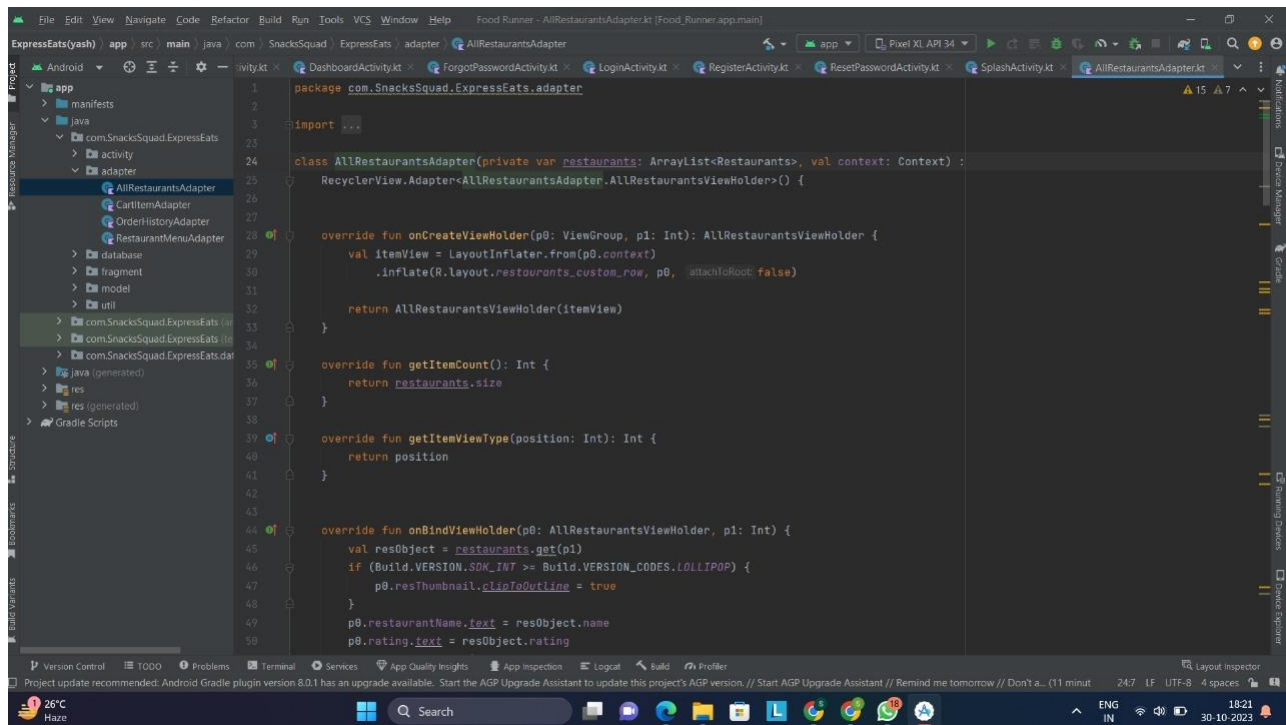


➤ Reset Password



```
1 package com.SnacksSquad.ExpressEats.activity
2
3 import androidx.appcompat.app.AppCompatActivity
4
5 /*The reset password activity resets the password, by sending the OTP along with the mobile number and the new password*/
6
7 class ResetPasswordActivity : AppCompatActivity() {
8
9     private lateinit var etOTP: EditText
10     private lateinit var etNewPassword: EditText
11     private lateinit var etConfirmNewPassword: EditText
12     private lateinit var btnSubmitOTP: Button
13     private lateinit var rlOTP: RelativeLayout
14     private lateinit var progressBar: ProgressBar
15     private lateinit var mobileNumber: String
16
17     override fun onCreate(savedInstanceState: Bundle?) {
18         super.onCreate(savedInstanceState)
19         setContentView(R.layout.activity_reset_password)
20
21         etOTP = findViewById(R.id.etOTP)
22         etNewPassword = findViewById(R.id.etNewPassword)
23         etConfirmNewPassword = findViewById(R.id.etConfirmNewPassword)
24         btnSubmitOTP = findViewById(R.id.btnSubmitOTP)
25         rlOTP = findViewById(R.id.rlOTP)
26         progressBar = findViewById(R.id.progressBar)
27
28         rlOTP.visibility = View.VISIBLE
29         progressBar.visibility = View.GONE
30
31         if (intent != null) {
```

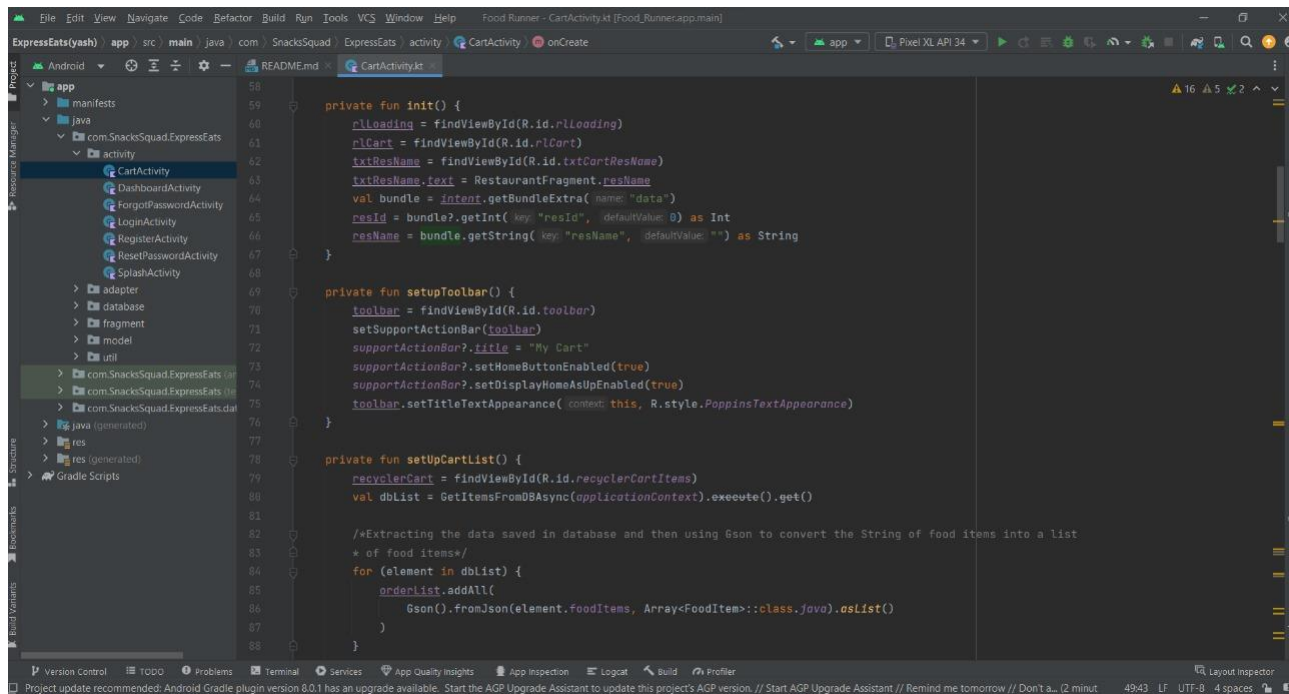
➤ Restaurant List



```
1 package com.SnacksSquad.ExpressEats.adapter
2
3 import androidx.recyclerview.widget.RecyclerView
4
5 class AllRestaurantsAdapter(private var restaurants: ArrayList<Restaurant>, val context: Context) :
6     RecyclerView.Adapter<AllRestaurantsAdapter.AllRestaurantsViewHolder>() {
7
8     override fun onCreateViewHolder(p0: ViewGroup, p1: Int): AllRestaurantsViewHolder {
9         val itemView = LayoutInflater.from(p0.context)
10             .inflate(R.layout.restaurants_custom_row, p0, attachToRoot: false)
11
12         return AllRestaurantsViewHolder(itemView)
13     }
14
15     override fun getItemCount(): Int {
16         return restaurants.size
17     }
18
19     override fun getItemViewType(position: Int): Int {
20         return position
21     }
22
23     override fun onBindViewHolder(p0: AllRestaurantsViewHolder, p1: Int) {
24         val resObject = restaurants.get(p1)
25         if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.LOLLIPOP) {
26             p0.resThumbnail.clickToOutline = true
27         }
28         p0.restaurantName.text = resObject.name
29         p0.rating.text = resObject.rating
30     }
31 }
```

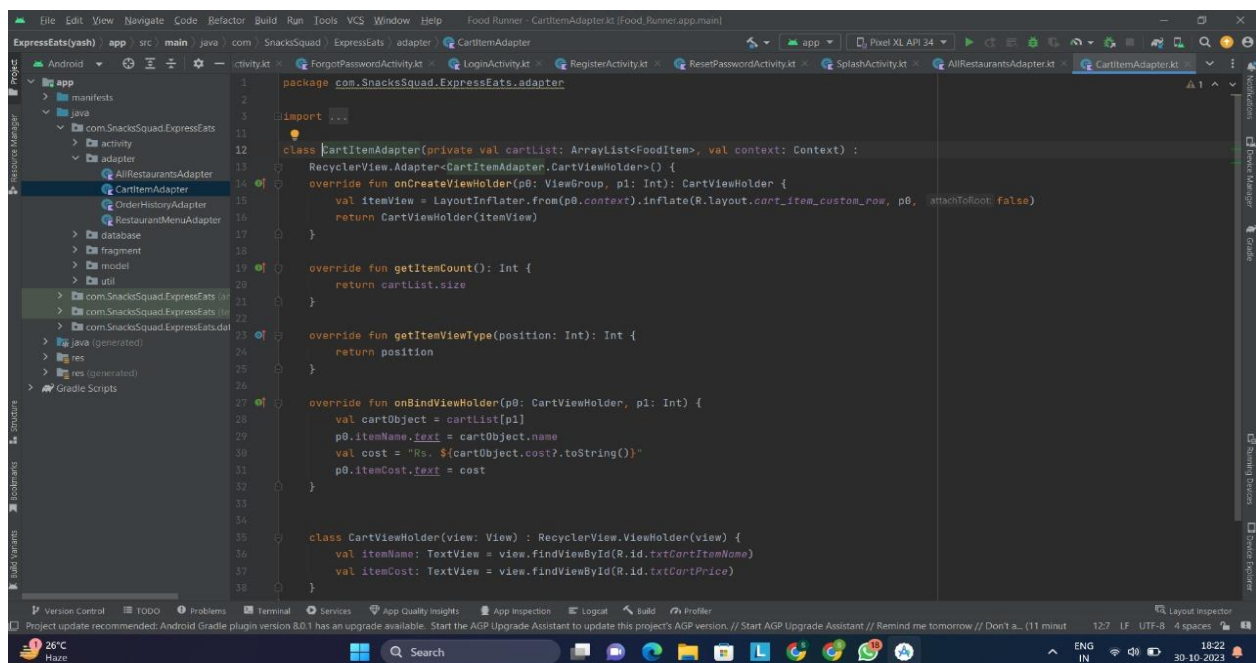
A restaurant list page on a food delivery app typically displays a curated or search-based list of available restaurants. Users can browse through these lists to view restaurant options, their menus, ratings, and reviews. This page allows users to select a restaurant they want to order from, making it a crucial step in the food ordering process.

➤ CART ACTIVITY

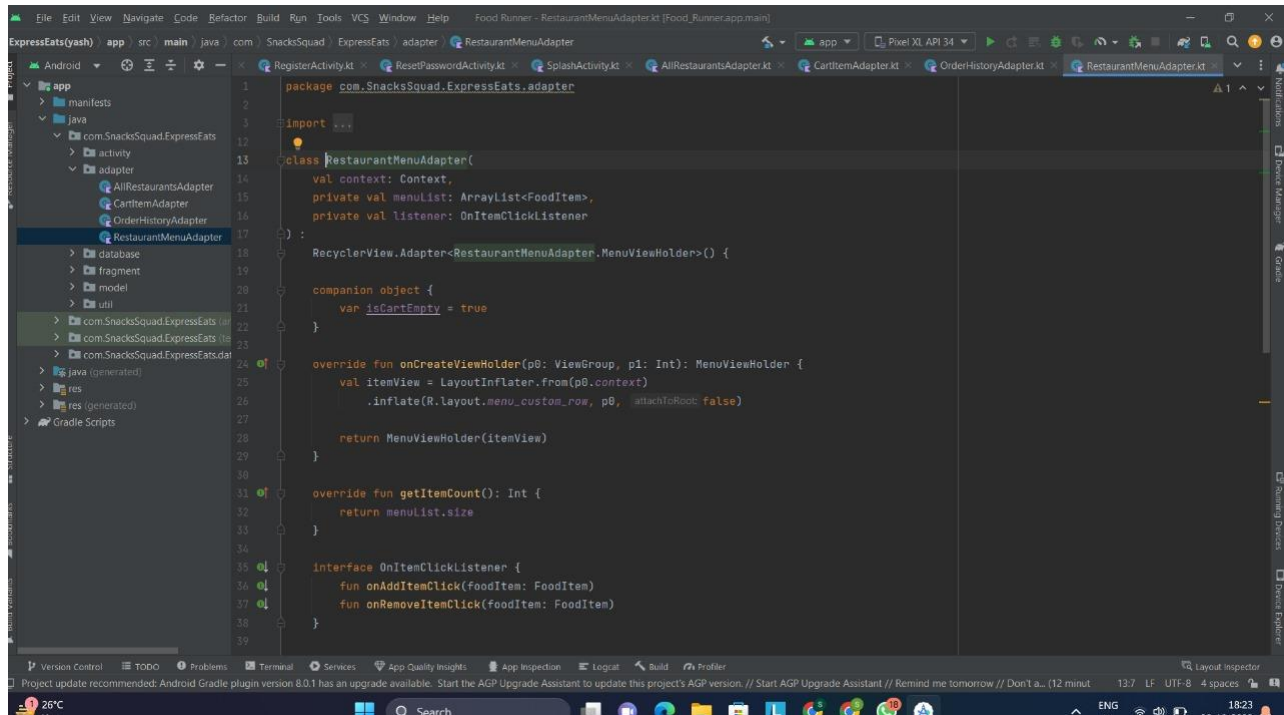


A cart activity page in a food delivery app allows users to review and manage the items they've added to their order. Users can see the selected food items, their quantities, and prices, and make adjustments like adding or removing items. They can also proceed to the checkout and payment process from this page. It serves as a summary and control center for their current order.

➤ Cart Item

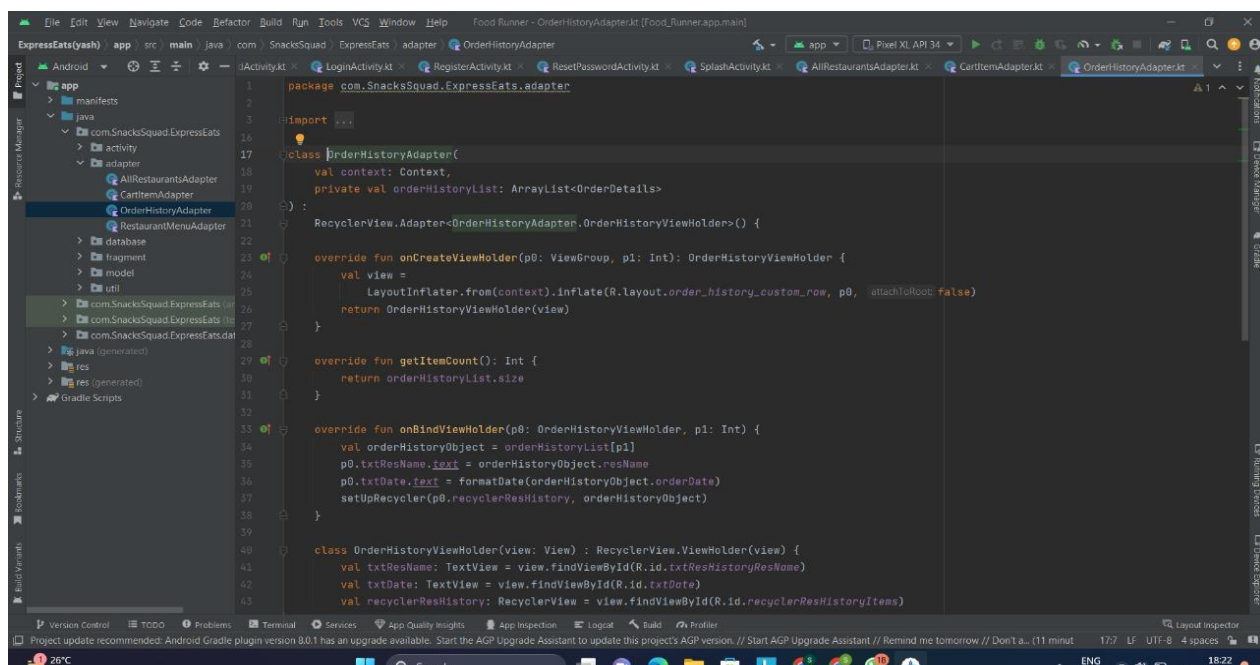


➤ Menu



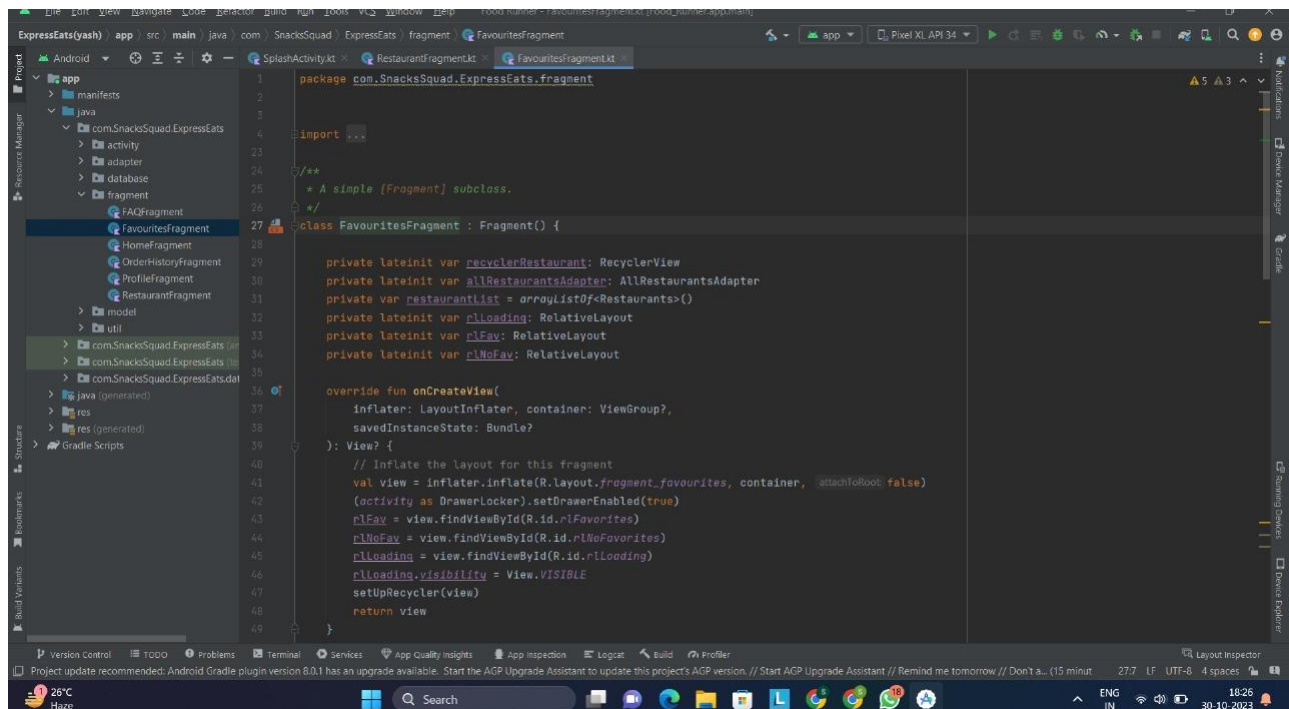
A menu page in a food delivery app presents the list of dishes and items available from a specific restaurant. Users can browse through the menu to view food options, descriptions, prices, and sometimes images. They can select items they want to add to their order from this page, customizing their meal choices before proceeding to the cart or checkout.

➤ Order History

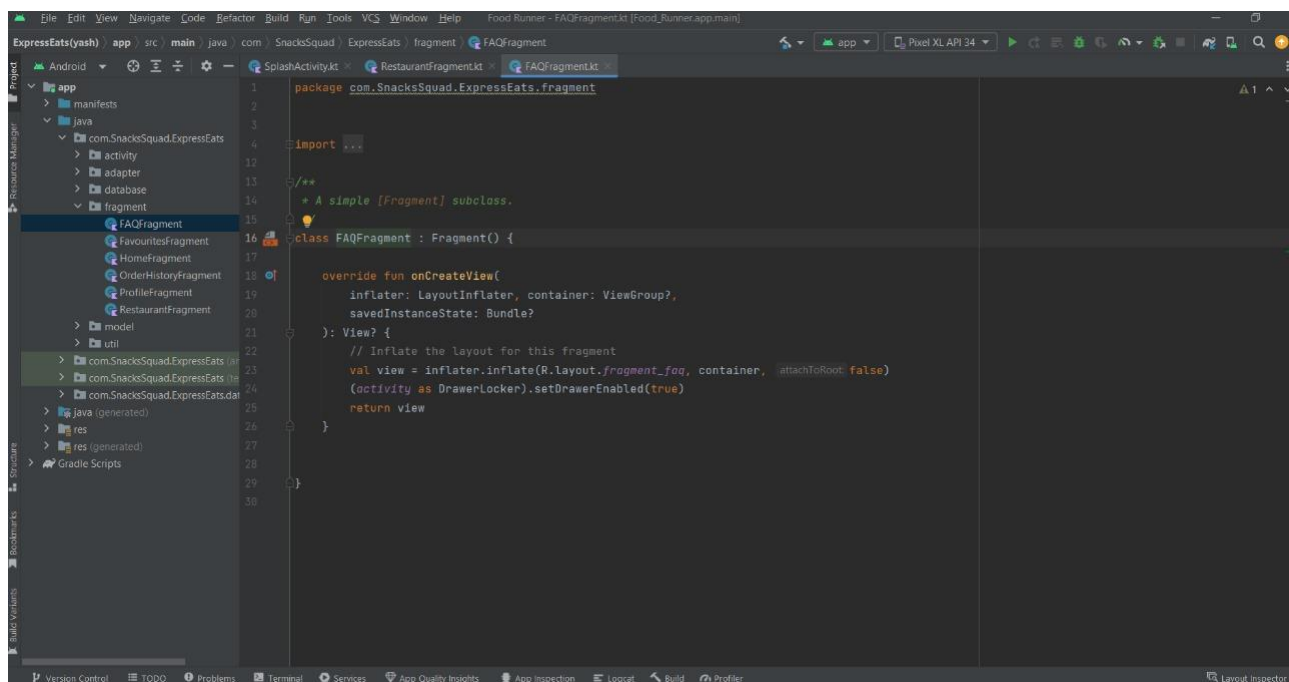


An order history page in a food delivery app displays a record of all the orders a user has placed in the past. Users can review details of previous orders, such as the date, time, items ordered, total cost, and delivery status. It allows users to keep track of their ordering history and easily reorder their favorite meals or check the status of recent orders.

➤ **Favorite**



➤ **FAQ**




APP



8:16

Yash 5G LTE

53%



Mobile Number (10 digits)

Password

Login

[Forgot Password?](#)

Don't have an account? [Sign up now](#)


8:16

Yash 5G LTE

53%

←

Register Yourself



Name (Min. 3 characters)

Email Address

Mobile Number (10 digits)

Delivery Address

Password (Min. 4 characters)

Confirm Password

Register

8:17

5G

52%

Enter the received OTP below

OTP (4 characters)

New Password (Min. 4 characters)


Confirm Password

Submit

8:15

5G

53%



Yash Verma

+91-8953731260

Home


My Profile


Favorite Restaurants


Order History


FAQs


Log out



4.1



4.6


3.4


4.2


4.0


3.8



8:16 M

Yes 5G LTE 53%

← LFC

Choose from menu listed below:

- | | | |
|----|---------------------------------------|-----|
| 1 | Chicken Feather Rs. 200 | Add |
| 2 | Chicken outside box Rs. 220 | Add |
| 3 | Non Smokin' Chicken Rs. 340 | Add |
| 4 | Chicken Spring Rs. 200 | Add |
| 5 | Chicken Box Rs. 200 | Add |
| 6 | Dancing Chicken Rs. 200 | Add |
| 7 | Chicken Autumn Rs. 200 | Add |
| 8 | Chicken Summer Rs. 200 | Add |
| 9 | Green Chicken Rs. 220 | Add |
| 10 | Chicken Prank Rs. 220 | Add |

8:16

VoLTE 5G 53%



All Restaurants



Pind Tadka



₹ 280/person

4.1



Garbar Burgers



₹ 200/person

4.6

Sort By

- ☐ Cost(Low to High)
- ☐ Cost(High to Low)
- ☐ Rating

CANCEL

OK



Smokin' Chik



₹ 250/person

4.0



Swirley's Shack



₹ 400/person

3.8



Dominoe's bread



8:16

5G 53%



All Restaurants



Pind Tadka



₹ 280/person

4.1



Garbar Burgers



₹ 200/person

4.6



Baco Tell



Confirmation

Are you sure you want exit?

NO

YES



Smokin' Chik



₹ 250/person

4.0



Swirley's Shack



₹ 400/person

3.8



Dominoe's bread



8:15

5G
LTE

53%



My Previous Orders

Your previous orders are listed below :

Dominoe's bread 26/10/2023

Bread Loaded Pizza Rs. 160

Pind Tadka 25/10/2023

Bhajia Tadka Rs. 60

Daal No Tadka Rs. 100

Mirchi Tadka Rs. 50

Roti Tadka Rs. 30

Pind Tadka 25/10/2023

Kachaa Aloo Tadka Rs. 60

Bhajia Tadka Rs. 60

Mirchi Tadka Rs. 50

Smokin' Chik 25/10/2023

Vegetarian Chicken Rs. 340

Lamb Chicken Rs. 320

8:15

5G 53%



Favorite Restaurants



Pind Tadka



₹ 280/person

4.1



Garbar Burgers



₹ 200/person

4.6