

Pizzeria

Mobile Application Development

INSTRUCTED BY: MR. Ved Prakash Bharadwaj



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| Name: | Hardik Gupta |
| Course: | BCA(IoT) |
| Year: | Third Year |
| Sap ID: | 500089339 |
| Roll No: | R252221023 |
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Abstract

In this project, I present a Java Android application designed to revolutionize the way we order pizza. With the increasing popularity of smartphones and the on-demand culture we live in, our application aims to provide a seamless and convenient pizza ordering experience. Through a user-friendly interface, customers can easily browse through a variety of pizza options, customize their orders, and track the delivery status in real-time. By leveraging the power of technology and innovation, our application seeks to enhance the overall pizza ordering process, saving time and ensuring customer satisfaction.

1 Introduction:

The Pizza Ordering Application is designed for making ordering of custom pizza convenient and easy. Basically this application will come in use when customer will be wanting to order pizza etc. according to their interest. The registered restaurant / café will charge according to the items furnished/added in pizza. Also this application will help to store and restore the data of customer so that if a customer wants to order the same, they can easily order by going in history. By this the application will lead to error free, secure, reliable and fast management system.

This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executives who are always on the go, our system come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

2 Objectives:

- The main objective of this project on Pizza Ordering System is to get customized pizza according to the requirements and the choices of the users/customers.
- It provides reliable and easy to use application because of the simplicity in the User Interface of this pizza ordering application.
- It provides users/customers authority to make pizza according to their choices.
- This project will also give access to user to experience how their customized pizza will going to look.
- Basically this project provides a section with easy and reliable user interface where user can make pizza and can see it whether their pizza will going to look nice or not.

3 Functionalities in this Project:

- Provides the searching facilities based on various factors such as Pizza, Order Status.
- Provides access for ordering customized pizzas according to interest/choices.
- It tracks all the information of online order, payments etc.
- Shows all the information and description of the Pizza to Customer.
- Provides easy and reliable UI where user can see how their customized pizza will look.

4 User Module Features:

- User can register with their details into the application.
- User can Login to the application with username and password.
- User can order listed pizza's from the application.
- User can also create their own customized pizza according to their requirements in the application.

5 Hardware required technologies used:

5.1 System Requirements:

- Minimum 4 GB RAM / 32 GB Internal memory android phone.
- Internet Connectivity.

5.2 Technologies used:

- Android Studio (For Front-end Back-end Development).
- Java Language used for back-end functionalities.

6 Working

6.1 Algorithm:

6.1.1 User Registration:

- Allow users to create a new account or log in to an existing account.
- Collect user information such as name, email address, and phone number.
- Store user information securely in a local database or cloud-based storage.

6.1.2 Browse Pizza Menu:

- Display a list of available pizza types and toppings.
- Allow users to filter the menu by pizza type, topping, or price.
- Provide detailed descriptions and images of each pizza.

6.1.3 Customize Pizza:

- Allow users to select their desired pizza size (small, medium, large).
- Provide a list of available toppings and allow users to select their desired toppings.
- Display a preview of the customized pizza with the selected toppings.

6.1.4 Calculate Order Price:

- Calculate the base price of the pizza based on the size.
- Add the price of each selected topping to the base price.
- Display the total order price to the user.

6.2 Screenshots:



Figure 1: Home Page

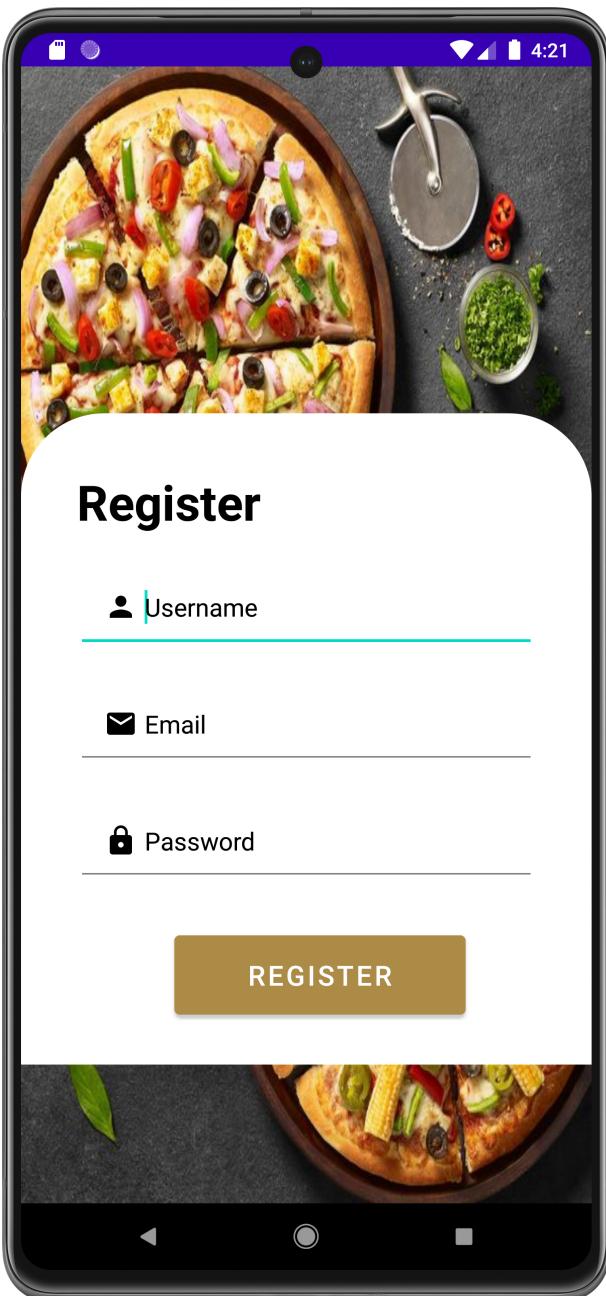


Figure 2: Register Page

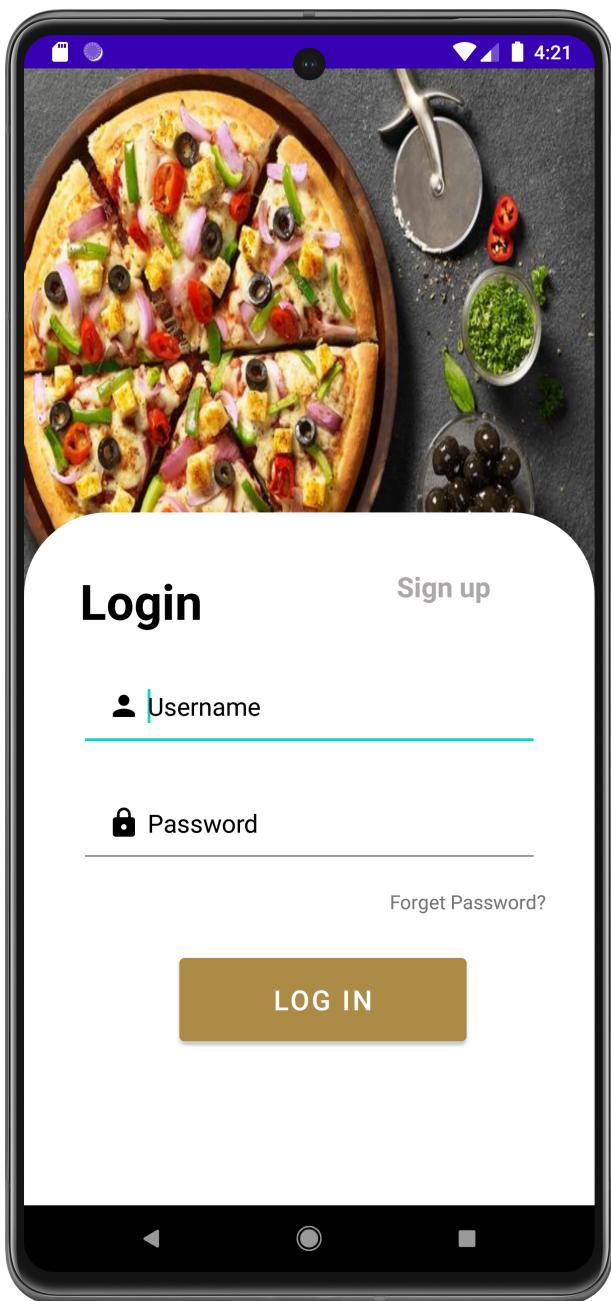


Figure 3: Login Page

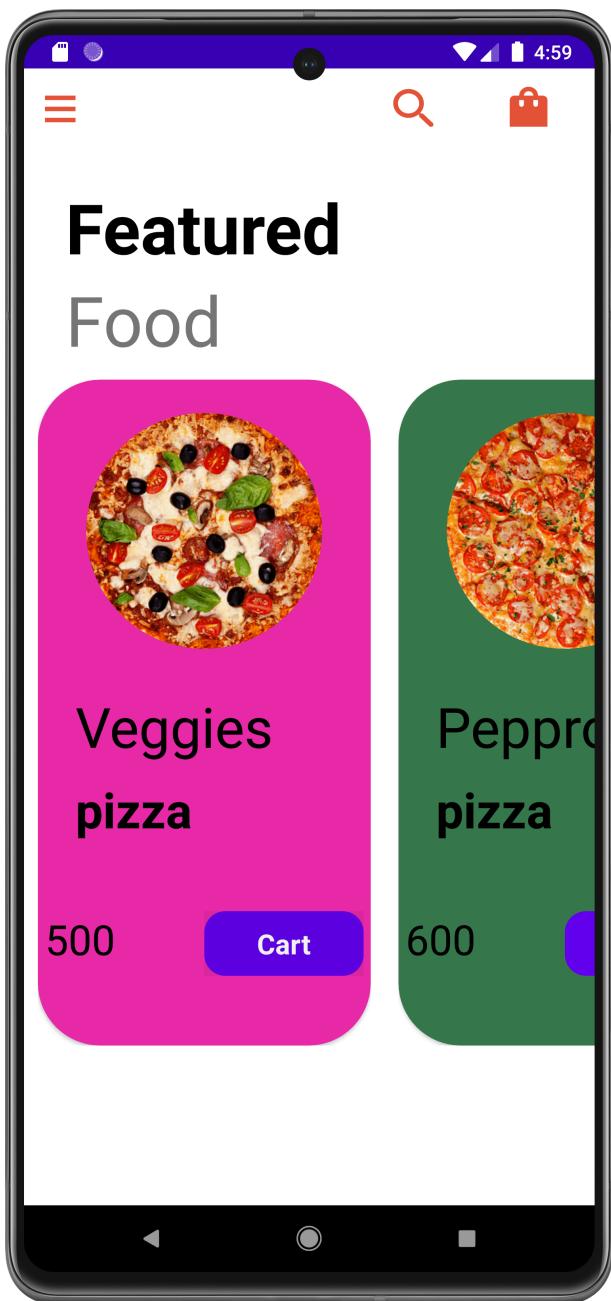


Figure 4: Landing Page

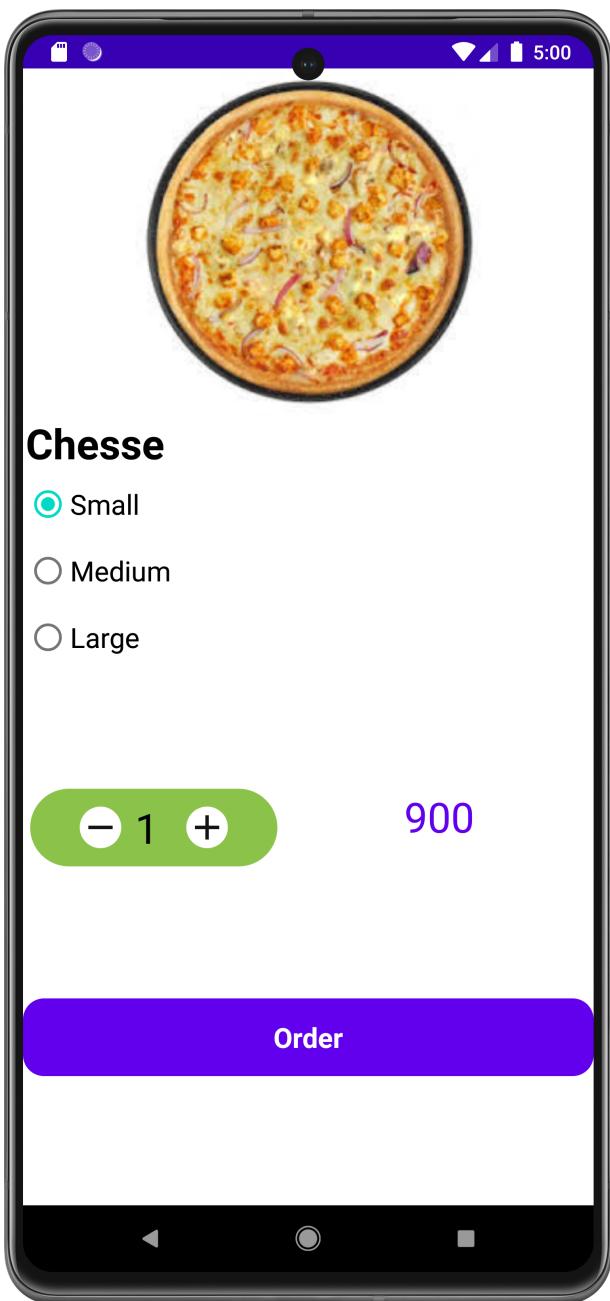


Figure 5: Cart Page

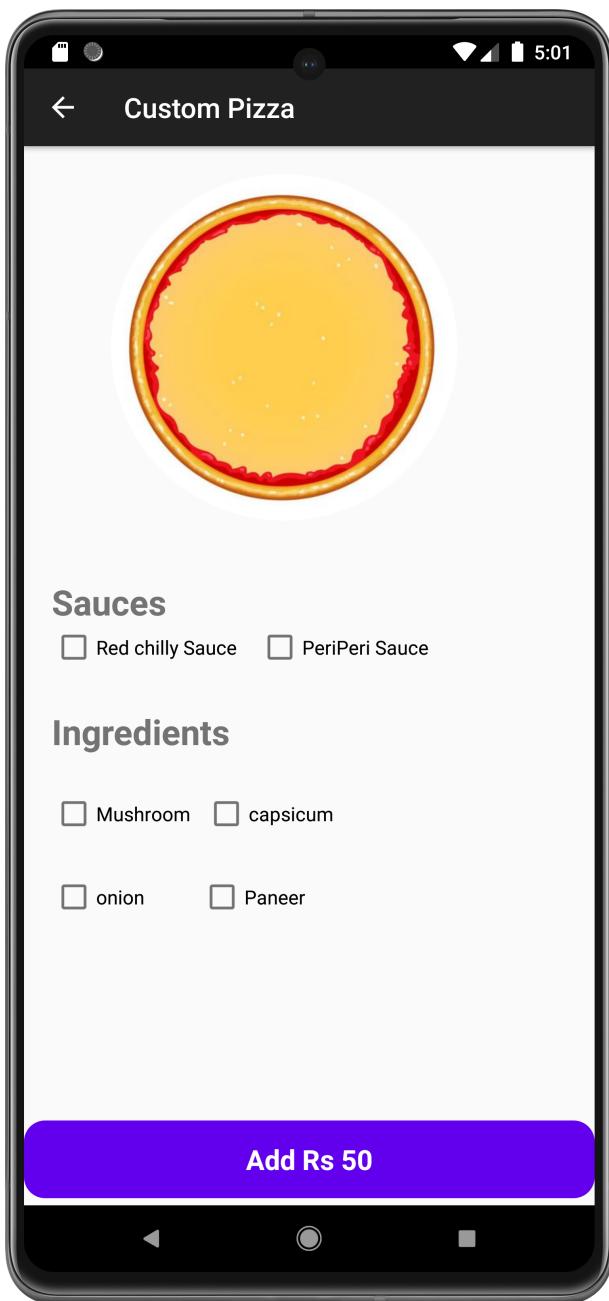


Figure 6: Custom Blank Page

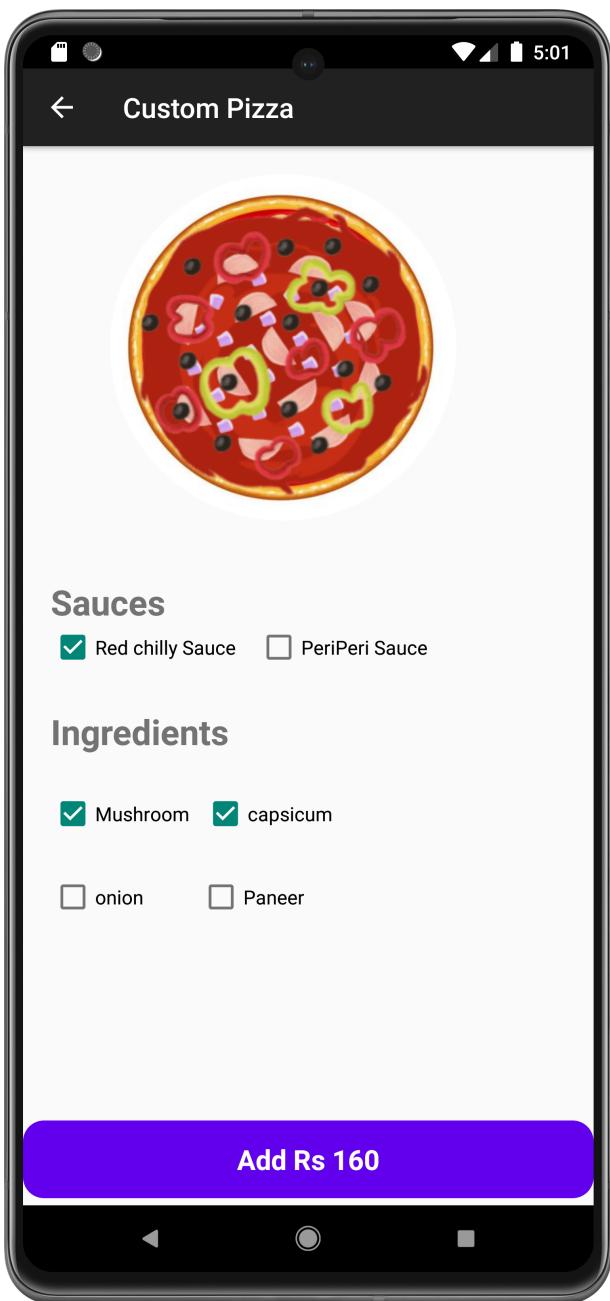


Figure 7: Custom Page

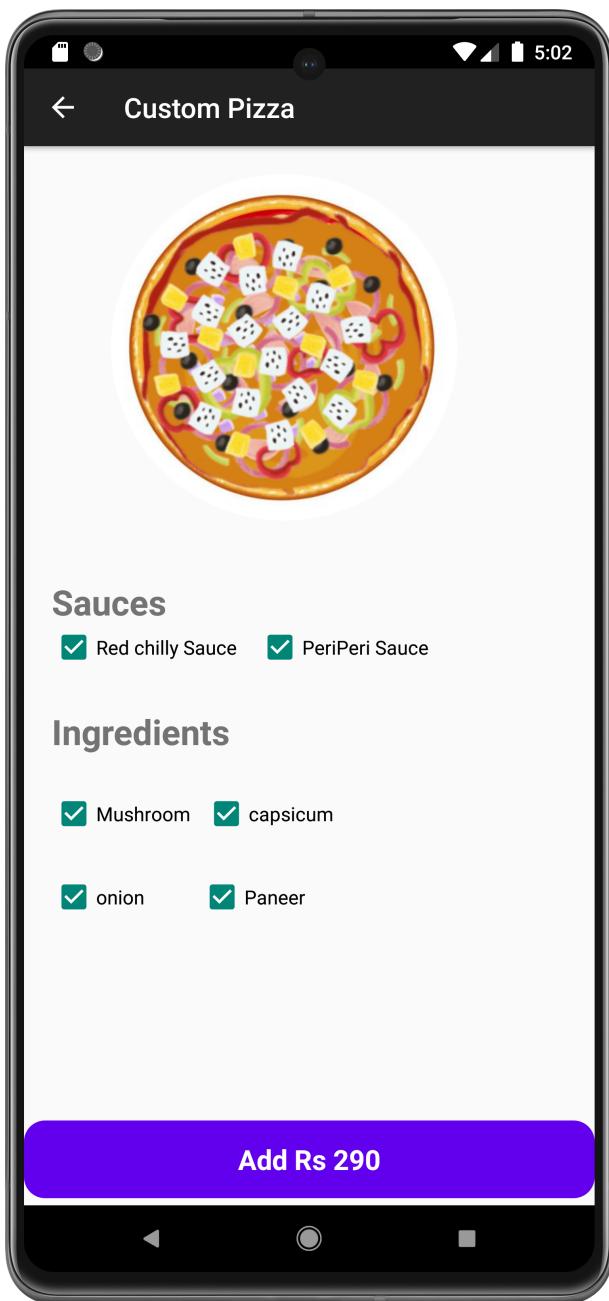


Figure 8: Custom Page

7 Conclusion

The Pizza Ordering Application successfully fulfills its objective of providing a convenient and user-friendly platform for ordering custom pizzas. The application streamlines the ordering process, enabling customers to easily browse, customize, and place orders for their preferred pizzas. The integration of user registration, order history, and order tracking features further enhances the user experience, while the seamless integration with payment gateways ensures secure and efficient online transactions.

The application's robust design and efficient functionality make it a valuable tool for both customers and restaurants. Customers can enjoy the convenience of ordering custom pizzas from the comfort of their homes, while restaurants can benefit from increased order volume and streamlined order management.

Overall, the Pizza Ordering Application demonstrates the power of mobile technology in streamlining everyday tasks and enhancing user experiences. Its user-centric design, functional features, and secure infrastructure make it an ideal solution for both customers and businesses in the food industry.

8 Links and References

- [Including Images in Overleaf](#)
- [How to write a thesis in La-Tex](#)
- [Positioning images and tables](#)
- [Android Studio](#)
- [Android Studio Tutorial](#)
- [Learn Java For Android App Development – A Complete Guide](#)