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**Eaterer App**

**Abstract:**

The Eaterer App is a complete solution designed with diners in mind, simplifying the booking procedure and optimizing the whole eating experience. Offering a user-friendly interface and an extensive range of functions, it makes it simple for consumers to find, reserve, and manage restaurants. The app offers comprehensive restaurant profiles along with the calorie count of the food items. Individuals can create profiles. The app wants to be the go-to platform, providing a seamless, user-centric approach to menu card exploration and reservation management, with a focus on security and privacy.

**Introduction:**

The goal of this app is to satisfy a wide range of user needs while guaranteeing an enjoyable dining experience. With the help of this app, users can quickly and easily browse a wide variety of restaurants, all of which have attractive photos, thorough descriptions, and atmospheric details. The app makes it easier to find restaurants by seamlessly considering user preferences like accessibility, and ratings. By simplifying the reservation procedure, customers may easily reserve tables, improving the whole eating experience. This software is committed to improving the dining experience and offers users a simple and pleasant way to find, choose, and book tables. It does this by focusing on simple layouts.

**Technical Requirements:**

1. The minimum required version of iOS is 11.0 or later.
2. Version 14.0.1 or higher of Xcode is required for development.
3. It is suitable for iPads as well as iPhones.

**IOS FEATURES:**

**Login Functionality:**

Secure login with Email/Username for personalized access.

**Item Details Display:**

Comprehensive item information:

1. Description
2. Ingredients
3. Calories

**Dynamic Menu Cards:**

Core Motion functionality:

Tilting the phone reveals alternative menu cards.

**Data Model:**

The way that data is arranged within the application databases is specifically defined by the data model for the application, which is implemented using Google Cloud Firestore. This model consists of collections and documents. Data fields are supplied in key-value pair format in each document. Firestore's structure enables for efficient information retrieval and storage. The application uses Google Firestore's "Email and Password" authentication technique for user authentication. With specified ways that make user authentication and password reset functionalities easier, this authentication mechanism provides users with a secure way to access the application while guaranteeing a dependable and strong authentication procedure.

The firestore database starts out with a set of Users, Offers, Restaurants, and Categories. The relevant information is added to the "User Profile", which contains user details, each time the user attempts to save or reserve a table.

**Collections in the database for the application are:**

**Category consists of the following data fields:**

1. description – string
2. foodImage – string
3. ingredients – string
4. Calories – string

**Offers consists of the following data fields:**

1. Image – string

**Restaurants consists of the following data fields:**

1. bookingAmount – number
2. countryAndPin – string
3. haveOffers – Boolean
4. id – number
5. image – string
6. location – string
7. name – string
8. rating – string
9. time – string

**Users consists of the following data fields:**

1. email – string
2. name – string
3. password – string
4. phone – string
5. username – string

**Fire Store:**

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**Architecture:**

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**Working Visualization:**

**Registration Success Screen:**

This the registration screen where a new user can create an account by entering information like username, name, email, phone number and password. On clicking the sign-up button, a popup window appears saying Registration Successful. If the user is an already registered user, they can simply click on the login button to redirect to the login screen, where they can login using the registered username and password.

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**Login Screen:**

Login screen welcomes the user to login using the registered username and password. After the correct credentials are entered, clicking on the login button will redirect the user to the home page.

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**Home Screen:**

This is the home page. It opens when the user is logged in successfully. This page consists of different categories of foods, available offers and a variety of Restaurants to choose from.

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**Profile Screen:**

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**Category Screen:**

Clicking on any one of the categories will redirect the user to a page where the description, ingredients, and number of calories of that item is displayed. To display the Calories, We have used the HealthKit Package here.

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**Search Screen:**

Enter a restaurant name and click on the search button, it will redirect to the related restaurant name. If we click on the Restaurant name, then it will be redirected to the Restaurant Screen where we can book a table or view the menu. For the “Show Menu”, we have implemented the Core Motion Package.

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**Offers Screen:**

When the user clicks on the offer’s images, then we will navigate to the offers Screen, where we can see the restaurants in which offers are presented. When we click on the restaurant, then we will be redirected to the Restaurant Screen.

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**Restaurant Screen:**

When the user clicks the Restaurants that are present then user will be navigated to the Restaurant Screen. In this Screen, The User will be able to book the Restaurant Table by selecting the Date and Time for number of persons User wants to book.

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**Menu** **Using** **Core** **Motion**:

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**Conclusion:**