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Dine Ratings : A Restaurant Review and Rating Android Application for Informed Dining Decisions

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ABSTRACT — The "DineRatings" app, a restaurant review and rating app, lets users find and rate restaurants in their area. Clients can see bistro depictions, assessments, and reviews set up by various clients, and can moreover leave their examinations and overviews. Customers will be able to provide feedback to café owners and administrators and make informed decisions about where to eat with the assistance of the application. DineRatings is a useful tool for people who want to share their dining experiences with others or discover new dining options. It has a user-friendly interface and a substantial database of restaurant information.

This is an Android app that shows you the delicious dishes at a specific restaurant in your area that have been recommended by people who have already eaten there. The IDE for this project is Android Studio. The user method and the administrator method will be the two types of login options. The user can see the restaurant, make a suggestion, and rate it so that new users can refer to it in the future. The administrator can add restaurants.

KEYWORDS – Android Studios, Sqlite Database, Review, Ratings, Food Preferences, Food Recommendations, Informed Dining Decisions.

I. INTRODUCTION

Due to the wide range of devices it supports, Android is the ideal platform for developing such an application. The First Activity Contains a Scroll view that provides the connection to basic activities, and this Android app supports basic functionality such as viewing suggestions from other users who have tried the food items and adding new restaurants so that users can add suggestions of food items from those restaurants. By clicking the "Register Here" button, a new user can sign up. He can then login after registering, and the list of restaurants will appear.

When a user clicks on a restaurant item, he or she will be taken to a different layout where more information about the restaurant will be displayed.

After the user has tried a dish from the restaurant, he or she can rate the review and write a review about it.

Application will have the following features:

- Admin can add new restaurants
- A user who already tried some dish he can give suggestion
- User can also rate the dish
- User can also update the rating

- Admin can change the user to critic

II. LITERATURE SURVEY

Nowadays reviews and ratings for restaurants are influencing consumer decision making.

1. Online reviews and ratings have a significant impact on consumer decision-making when it comes to restaurant selection. Users rely on these reviews to inform their choices, and are more likely to patronize restaurants with higher ratings and positive reviews.
2. The credibility and usefulness of review platforms depends on a variety of factors, including the volume and quality of reviews, the accuracy and completeness of restaurant information, and the transparency and objectivity of the review process.
3. Restaurant attributes such as cuisine type, price level, location, and ambience can influence the content and impact of reviews, as can user characteristics such as demographics, dining habits, and review history.
4. Review platforms that offer features such as personalized recommendations, social sharing, and interactive maps can enhance user engagement and satisfaction, and may lead to increased usage and loyalty.

III. EXISTING SYSTEM

There are several existing food rating and review applications some of the most well-known applications include:

- Yelp: Yelp is a popular food rating and review application that allows users to search for restaurants, read reviews and ratings from other users, and leave their own feedback and suggestions.
- Zomato: Zomato is another popular food rating and review application that allows users to search for restaurants, read reviews and ratings. Zomato also provides information about businesses such as hours, menus, and pricing, as well as online ordering and table booking services.
- TripAdvisor: TripAdvisor is a comprehensive travel and food rating and review application that allows users to search for restaurants, read reviews and ratings. TripAdvisor also provides information about hotels, flights, and other travel-related services.

IV. LIMITATIONS OF EXISTING SYSTEMS

- Limited information: Some existing frameworks may provide limited information about the restaurant, such as its menu or space.
- Poor user experience: Some of the current review and rating frameworks may be difficult for customers to explore or use, leading to dissatisfaction and lower usage rates.
- Language barriers: Non-local speakers of those regions will most likely be unable to utilize a portion of the current frameworks since they are just accessible in specific regions.
- Technical issues: Technical issues with existing systems include bugs, crashes, and sluggish loading times.
- Incomplete data: Reviews and Ratings may be skewed or inaccurate as a result of the fact that the existing system may require extensive restaurant information.

V. PROPOSED SYSTEM

- This project is about a Review and Rating system that provides a platform where users can discover new restaurants, read reviews and ratings from other users, and leave their own feedback and suggestions about restaurants they have visited.
- This Application provides a valuable service to both users and restaurants by facilitating the process of discovering new restaurants, providing information, and encouraging feedback and engagement.
- From the Admins side Administrators can add or remove their restaurant details by logging into the application.
- The users can see the restaurant and give a suggestion which will be referred to by new users later on the user can also rate his suggestion.
- This Application contains features like
 1. Admin can add new restaurants
 2. A user who already tried some dish he can give suggestion

3. User can also rate the dish
4. User can also update the rating
5. Admin can change the user to critic

Integrated Development Environment (IDE):

Android Studios is the Integrated Development Environment (IDE) of choice for Android development. It is created to support a wide range of application development, from small, standalone solutions to large, enterprise-scale ones. When it comes to creating apps for Android telephones, tablets, Android Wear and Android television, Android Studios is an excellent choice. To facilitate development activities, the project primarily makes use of the following features:

- Step through debugging;
- User-friendly code editor with responsive code completion;
- Source code version control

Architecture:

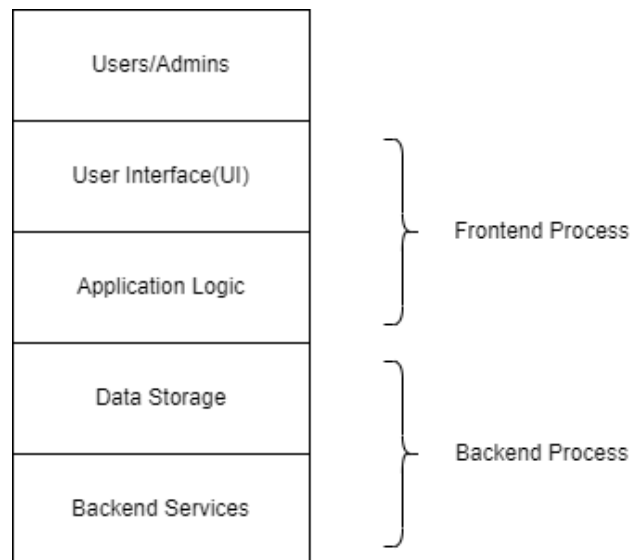


Figure 1. Architecture of the application

User Interface: This layer is responsible for the presentation of information to the user and for accepting user inputs. It includes screens, menus, buttons, and other visual elements that allow the user to interact with the application.

Application Logic: This layer processes user inputs and communicates with the backend services to retrieve data and update the system. It includes Java files that process the input given by users with specific actions.

Data Storage: This layer stores all the information needed by the application, including user profiles, restaurant data, and reviews. It may use a variety of storage solutions, such as a relational database, SQLite database, or a cloud storage service.

Backend Services: This layer provides the business logic and data storage services required by the application. It may include web services, APIs, and other backend components that handle the communication between the application and the data storage layer.

Flow Chart

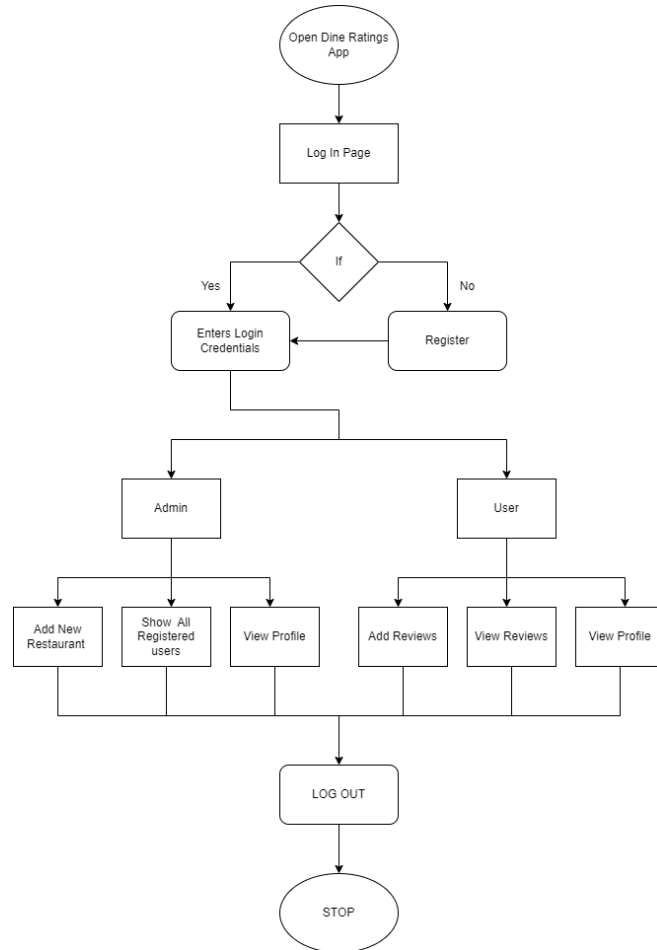


Figure 2. Front-end implementation diagram

As you can see in the above figure 2 the implementation part in this phase we will use Android Studios to make a Dine Rating application. The above flowchart shows the frontend implementation flow of the application. When we open the application, we will get a login page which gives the option to select login for registered users and Register now for new users, and after logging in Admin have options like Add New restaurant details, Show All registered Users, and View Profile. The Users have options like Add review, View the previous ratings/reviews, and View Profile . We will build a user-friendly UI for the application in this Phase.

In this proposed system for the backend implementation we will use the default Database Sqlite from Android Studios to store the data which was entered by the users or admins by logging into the Application. This also may help in security purposes to cross check and track the fake users of this application. We can download the Database file of the application and can be used for security purposes.

VI. SAMPLE OUTPUTS

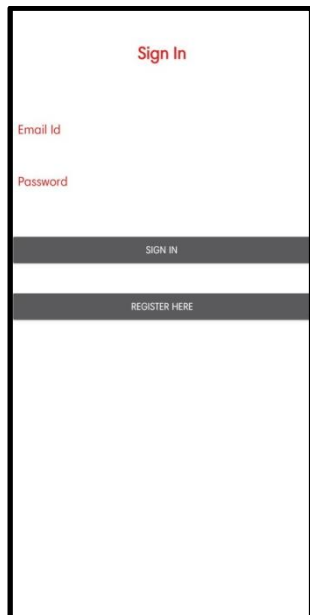


Figure 3. Sign In Page

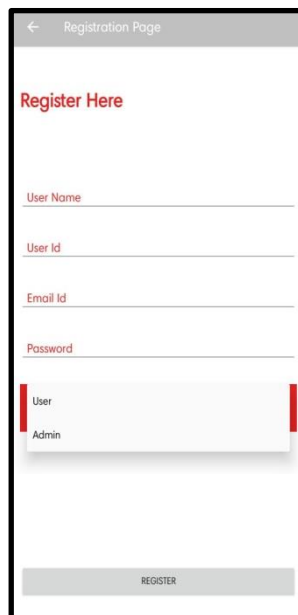


Figure 4. Register Page

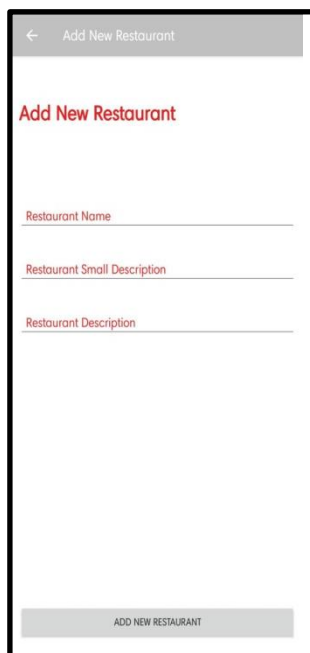


Figure 5. Adding Restaurant

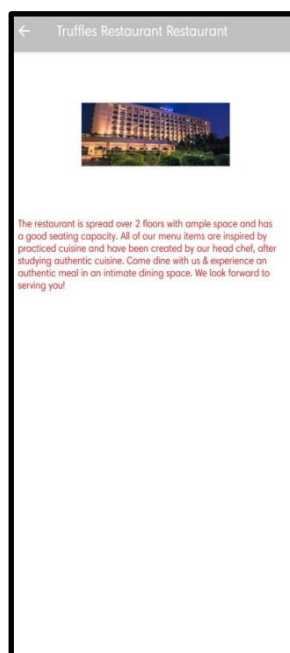


Figure 6. Restaurant Description



Figure 6. Restaurant List Page

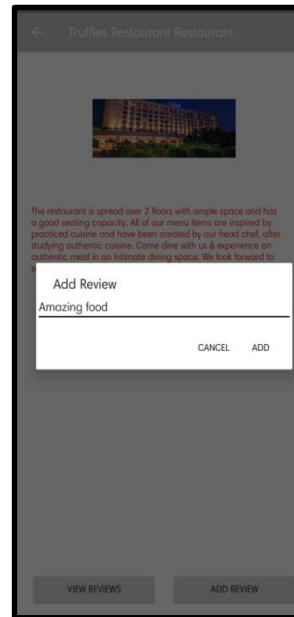


Figure 7. Add Review Page



Figure 6. View Review Page

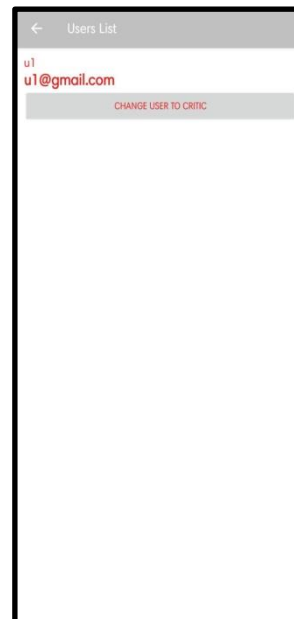


Figure 7. Users List Page

VII. CONCLUSION

The purpose of the "DineRatings" application is to give users a comprehensive platform for searching, rating, and reviewing local restaurants. The app aims to assist users in making informed decisions regarding where to dine and enhancing their dining experiences as a whole through its user-friendly interface, personalized recommendations, and dependable ratings and reviews.

It is abundantly clear from the literature review and related works that restaurant review and rating applications are in high demand, with numerous well-known platforms already available on the market.

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