

A Study and Application Development for POMP Decorum and its Transformation System

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Abstract: POMP is an App for decorum (events and functions) organizing an android application project that provide the basic functionality of a decorum organizer. The application will grant only existed users to log in, and new customers are permitted to register in the application. It is proposed to be an Android application. The plan provides the majority of the essential functions necessary for an occasion. It allows the user to select from a list of occasions and foyers list for every category of occasion. Once the user choose the occasion type, for example, Marriage, Birthday, Conference, Product launch, etc. The application grant the users to select the date and time of the hall or foyer if any additional requirements needed can be placed in front of the admin view. Since the app contains a list of the hall so the user can select the foyer according to his/her preferences, every information is stored in the record, and the customer can check out their bookings in the booking section. The user data is then transferred to the admin of the application, and if any unavailability of date is occurred will notified to the user immediately. And user data stored in the database. Along with that, a gallery provided to the user or customers to have a view over the halls or foyer for every particular event.

Keywords: *Foyer, Booking, Firebase, Possessor, Occasion*

1. INTRODUCTION: It is an android application which mainly

focuses on decorum (events and functions). It is a known fact that everyone needs to celebrate an occasion grandly, so we come up with an idea to ease the needs of the customer or end-user who are in search for a foyer or function hall. The fact of today's world is smart phones, and android apps, everything from small to more significant works are carried out through apps in smart phones. Back in the old days, when a person wants to search for a foyer for any occasion, the end-user has to take a physical tour i.e., the customer has to move around several places to fix a lobby, which is time-consuming and stressful. This app mainly focuses on customer needs people who are looking foyer or hall for occasions like marriage, birthday, conference meetings, etc. We bring all kinds of lobbies required for different events into a single app. This app contains all the information about the foyer and details about the owner who owns and what are the services provided by the particular foyer.

Unlike another database system, here we used a powerful and firmly secured server database which is provided by the Google

called Firebase, with the help of Firebase the user privacy data is protected with a well-built security mechanism.

2. LITERATURE SURVEY:

A literature survey is nothing but a set of systematic rules or protocols to be governed when researching a particular topic. A detailed and systematic search over the matter among all published subject before proposing a custom made system or project. Going through all existed papers and literature helps to develop a custom made literature report or document. This literature survey helps you to identify many relevant or related records according to your proposed literature survey.

- To have knowledge over the topic and what is all the existed information about a particular topic that we want to propose in our survey.
- It is like a starting point to build our work of interest.
- A literature survey helps in providing authority to our work of proposing our document.
- It is more of like gathering all the recourses and consuming information effectively from various resources to build our presenting paper.
- It helps to avoid duplication of content in presenting a paper.
- Collecting information from the existed application may result in building a compelling application than the existing system.
- It helps in overcome the disadvantages of the existing system so that we can able to rebuild or build a new custom application.

3. IMPLEMENTATION:

Build better apps:

3.1 Firestore: It is a cloud database platform applied to web and mobile applications. Firestore does not follow the SQL document so that we can easily store, sync, and retrieve data from cloud storage.

3.2 ML Kit: It is an SDK introduced for mobile, which brings the machine learning concept to IOS and android applications. Just by using some lines of codes, we can implement ML in mobile apps. It does not require much knowledge over machine learning.

3.3 Functions: when some actions take place, Firebase runs some backend codes automatically by analyzing HTTP requests.

3.4 Authentication: Authentication is one of the essential requirements. Firebase helps authentication of users through email and password, phone number, Google, Facebook.

3.5 Cloud Storage: firebase provides provision for storing files and accesses those files through cloud storage. User can upload files (text, images, audio, and video) even without not considering network quality.

3.6 Hosting: one of the other functionality provided by firebase is hosting service. Just by using simple command prompts, we can set up web applications. It provides both static and dynamic web hosting.

Real-time Firebase Database: it is a cloud-based

Improve app quality:

Firebase provides functionality to monitor the application in various ways like

application performance and how it is making efficient use of the resources available so that we can able to maximize the usage of the application. This helps in analyzing and evaluates our application to function even better than it was before.

Crahlytics: it is more of like a reporter with a featherweight process that helps us to identify any crash or bugs that occur in our application in run-time. By which we can track down the germs and fix it, also we could able to monitor the stability of our application. It reduces our troubleshooting time by highlighting the crashes or bugs that occurred in our application; this feature is applicable for android and ios applications.

Performance monitoring of application: as the name suggests, it entirely deals with the tracking of the performance of our application. Its inbuilt service provided by the Firebase. It will collect and gather information from the app, which is then analyzed and evaluated in the firebase console. After its calculations, it will give a suggestion which part of the application can be maximized to perform even better. Accordingly, we can fix the performance problems quickly. This feature applies to applications of android and ios.

Test labs: if a developer finds any lack of infrastructure in case of testing related issues, Firebase provides a provision for testing by providing a cloud-based application testing environment. This environment contains a considerable number of devices to check and run our mobile applications efficiently. This

feature of firebase test labs is provided for both android and ios applications.

Grow your Business:

By using firebase, we can grow our business through our application. Firebase provides a mechanism to gain more user interest and user rendezvous in our application. And some of the arrangements are as follows,

In-App messaging: people who are making active usage of the application can be contacted with the help of a built-in messaging service. We can target a set of users and send messages like if a new product is added can be displayed immediately to all the users just in simple ways. This feature is made available for ios and android mobile applications.

Google Analytics: this is an analytical solution section provided by firebase SDK to know the insight of our application and how much the user is showing much interest in our application. This helps in decision making and what are the solutions that can be made to get attention from the users. We can make new marketing strategies to make our application even more beneficial. It is available for mobile platforms like ios and android.

Predictions: every behaviour of users who are using the application is monitored so by applying machine learning concepts to the information to generate user segments. This prediction functionality can be applied to remote configuration, in-app messaging and testing phase.

Cloud messaging: it provides a standard connection between the server of our application and devices that the user uses. By which we can deliver, receive messages as well as notifications. This service is provided for free with no cost for all android, ios and web applications.

Remote configuration: if the developer wants to update or modify any operation in the application can be made without going into our coding of system. I.e. if the developer wants to change the color of the layout, it can be done quickly by using a remote configuration feature of the firebase. Instead of creating a new version of the application, we can add additional functions to our mobile apps. It is done for ios as well as android.

Dynamic links: with the help of active connections, we can be able to open the content with the provided link in the application or a native application. Just a click on a link will take us to the content as it was linked before. It is possible in C++, web, unity and other applications.

A/B Testing: if we want to enhance our application feature and its functions, user experience can be done quickly with this testing facility. We can run and improve the application of UI components rapidly. It mostly supports C++, unity and other mobile application platforms.

4. Results & Discussion:

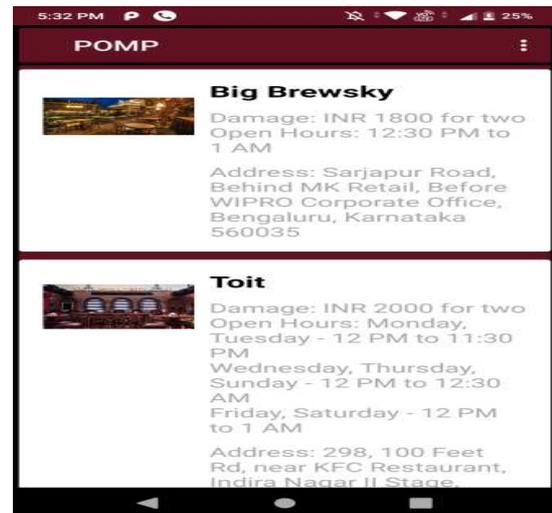


Figure 1: Task Discussion



Figure 2 : Creative Ramada

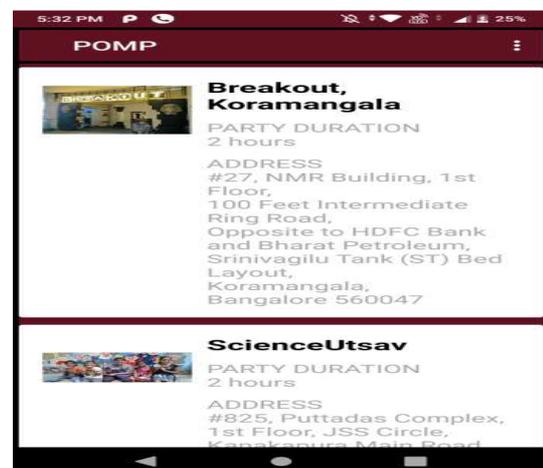


Figure 3 : Data POMP Applications

5. Conclusion:

POMP a Decorum Organizing app is an android application developed and implemented to ease the work of people who are looking for foyer or halls reservation for various occasions. Nowadays, the android app is widely used in every sector of business, so simple to book the foyers without taking any physical tour to visit halls. The implemented android application will overcome some disadvantages of the existed system, i.e. the existed system includes physical centers to look for foyer, and there will be no direct contact with the possessor, mostly the third person involves frequently in occasions like marriage. By this app, the user can install and explore the applications and ease of reserving the foyer.

The user can make multiple reservations of the foyers simultaneously and if the user wishes to delete or modify the dates and days provided will be done quickly. The admin will always be at user service if any unavailability of foyer occurs.

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