ABSTRACT

The purpose of Book My Slot is to automate the existing manual system with the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy access and manipulation of the same. The required software and hardware are easily available and easy to work with. Book My Slot, as described above, can lead to an error-free, secure, reliable, and fast management system. It can assist the user to concentrate on their other activities rather than on record keeping. Thus, it will help the organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant while being able to reach the information.

INTRODUCTION

The " **Book My Slot** " has been developed to override the problems prevailing in the practicing manual registration system. This software is supported to eliminate and, in some cases, reduce the hardships faced by the existing registration systems. Moreover, this system is designed for the need of the company to carry out event registration operations smoothly and effectively.

The application is reduced as much as possible to avoid errors while entering the data. It also provides an error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. Book My slot, as described above, can lead to an error-free, secure, reliable, and fast registration system. It can assist the user to concentrate on their other activities rather than on record keeping. Thus, it will help the organizations in better utilization of resources. With my Book My Slot event registration app, attendees will be able to easily register for your next event using their smartphones. The app provides innovative features that make it simple to collect registrations and track who has registered.

The project consists of two apps, the first app helps the participants to register for the events which are present in the given list of events, in which after registration a ticket is generated with a QR code present in it. The second app helps the event manager to check whether participants have registered for the event or not and check that the participants are verified or not, scanning the QR code provided ed the participants present in the ticket, which displays the participants' details.

While organizing any event one of the major works is two make sure that the participants are easily able to register, as my app easily allows the participants to register, they have to login into their account after which they must select the event in which they want to register and then fill out their detail after which their ticket will be generated which they will save in their gallery. Which they will provide on the site when asked. The second app helps our event manager to easily verify the participant by scanning the participant ticket using the scanner provided in the app, the app shows the detail of the participant and whether he has resisted the event or not.

LITERATURE SURVEY

Conventional Paper Based System: -

This is the basic method that is used for centuries. In this process, the invitation is sent on paper and a participant takes part in the event by filling out the form given in paper format. it has a lot of disadvantages such as it is slow, and it is not possible to send every one written invitation. The main drawback of the following system is the waste of time and money and it is not very easy to manage.

Book My Show & Book My Trip: -

There is some app that has the same process of registration but works for movies and trips. They show the user the show or the trip and then the user fills out the details and gets his ticket booked.

Event Registration Software: -

Event registration software helps in increasing the response rate by creating automated forms, tailored to your business requirements. This software eliminates the manual, archaic methods of rolling out registration forms, collecting information, and preparing datasheets. Customizing a digital form is simple with event registration software. You can provide supplementary information that participants can voluntarily add for statistical and analytic purposes in addition to the basic details, such as name, address, and phone. numbermkgmbym

Google form: - Nowadays a lot of event organizers use Google Forms to perform as it is easy to manage but it has a lot of features that event registration apps have.

METHODOLOGY

IDEATION:

The process of registration for any event is not easy to manage. So, I thought of developing an app that not only helps the event manager to organize the registration and allow only verified participant to enter the event, but also make the process of registration easy for the user.

PLANNING:

So, I plan to divide the project into two different apps one for the event manager and one for the event participant. The first app will log in the user into his account and the second app helps the manager to scan the ticket to see the user's detail and whether he has registered for an event or not.

WORKING: -

So, first login the user into his account and verify the account. Then the user will see the list of the event present in the app he will select one of the events and then he will be taken page containing a form which will be saved on Firebase after he fills in the form and clicks on the register. Then he will be taken to a page where he will see a QR Code which he will save in his gallery. Here the QR Code is noted but the UID of the user as any information stored on Firebase is linked to UID. In the second app, a scanner is provided this app, the scanner will scan the code and find the user UID and extract the information from the Firebase, and display the information which are user details and whether he has registered or not.

DATA FLOW DIAGRAM

Book My Slot is a type of software that allows the event participants to register and allow the manager to check the registration of the participants. In this, the user details are stored on firebase which is further read while checking for registration. Let us understand the working of the Book My Slot App with the help of a DFD (Data Flow Diagram). DFD for Book My Slot is shown below.

Level 0 DFD: -

DFD Level 0 is also called a Context Diagram. It is a basic overview of the whole system or process being analyzed or modeled. It is designed to be an at-a-glance view, showing the system as a single high-level process, with its relationship to external entities. It should be easily understood by a wide audience, including stakeholders, business analysts, data analysts, and developers.

At this level, the Input and Output of the system are shown. The system is designed and established across the world with input and output at this level.

Book My Slot App1 has the following input:

- User Account and password
- User detail

Book My Slot App1 has the following output:

- Ticket with QR Code

Book My Slot App2 has the following input:

- QR Code

Book My Slot App2 has the following output:

- Participants details
- Whether participants have registered or not.

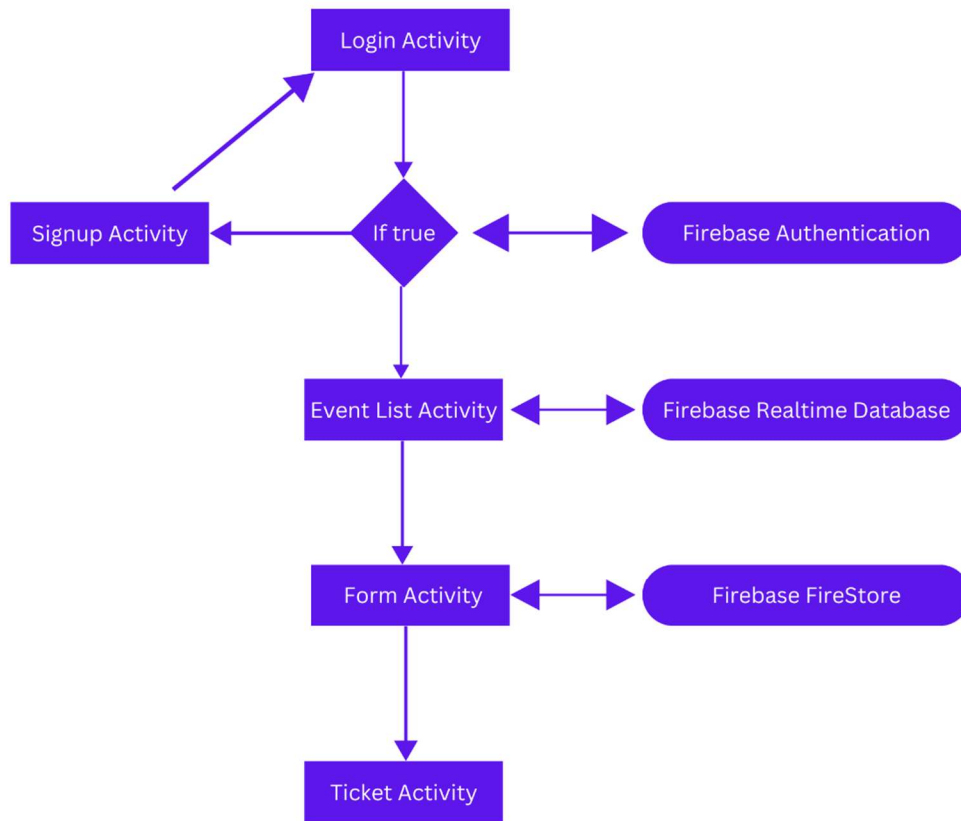Data Flow Diagram for App1(Event Participant): -

Figure 1 Dataflow of App1
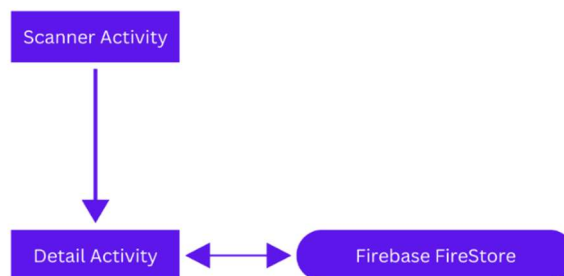
Data Flow Diagram for App2(Event Manager): -

Figure 2 Dataflow of App2

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FACILITIES REQUIRED FOR PROPOSED WORK

HARDWARE REQUIREMENT: -

- 64-bit Microsoft® Windows® 8/10/11

- 8 GB RAM or more

- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)

SOFTWARE REQUIREMENT: -

- OS: Windows 8 or 10, Mac, Linux, or Chrome OS

- ANDROID TECHNOLOGY: XML, KOTLIN, JAVA

- DATABASE (BACKEND): Firebase

- ARCHITECTURE: 3-Tier Architecture

- ANDROID VERSION: Pie – 9.0, Android 10, Android 11

ENVIRONMENT SETUP: -

1. Android Studio
2. Firebase
3. Figma

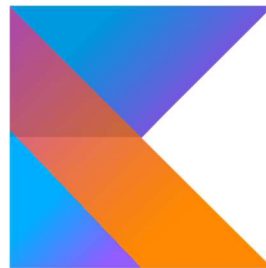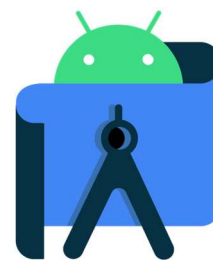Figure 3 Java   Figure 4 Firebase   Figure 5 Kotlin   Figure 6 Android Studio

CONCLUSION

Book My Slot app is designed for the need of the company to carry out event registration operations smoothly and effectively. The application is reduced as much as possible to avoid errors while entering the data.

It also provides an error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. Book My slot, as described above, can lead to an error-free, secure, reliable, and fast registration system.

It is a responsive design, so it can be used on any smart device. Book My Slot provides an error-free and secure event registration system. It has a user-friendly interface, so non-technical users can also use this app. The application has a user-friendly interface.

FUTURE WORK

The future scope of the project circles around maintaining information regarding:

1. We can add a printer in the future.
2. We can give more advanced software for the Event Management System including more facilities
3. We will host the platform on online servers to make it accessible worldwide
4. Integrate multiple load balancers to distribute loads of the system
5. Create the master and slave database structure to reduce the overload of the database queries
6. Implement the backup mechanism for taking backup of the codebase and database on regular basis on different servers

The above-mentioned points are the enhancements that can be done to increase the applicability and usage of this project. Here we can maintain records of Events and bookings. Also, nowadays the players are versatile, i.e., there is a scope for introducing a method to maintain the Event Management System. Enhancements can be done to maintain all the Events, Booking, Customers, Employees, and Inquiries.

We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them. In the last, we would like to thank all the persons involved in the development of the system directly or indirectly. We hope that the project will serve the purpose for which it is developed thereby underlining the success of the process.

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