Group 7- InTown

React native based Mobile Application

Introduction

Abstract

In urban cities like Bangalore, there are a lot of events happening around them. In these modern days, people are mostly busy with their work, with a little time to leisure. They obviously won’t want to waste their time searching for the best things they could do during their leisure time.

Our app helps the people to quickly find out the best events (online / offline) happening around them according to their preferences. It will also help the event organizers to post the events with its details on the app, for a wider reach.

Overview

The App will use the user's location to find events near them all at one place in our App, instead of letting them waste their time looking for events using different sources. The users will also be able to filter events according to their preferred category (E.g. Tech Events, Meetups, Concerts, Shopping).

Existing System

The present system like Facebook Events exists, but it has following shortcomings, which can be improved upon:

1. All the people not on facebook are out of its scope.
2. The Event hosts have to hope their events show up in the Facebook news feed of users. But unfortunately for event hosts, the users don’t usually look for events specifically while scrolling their news feed on Facebook.
3. A standalone app for events will provide users the ease of use, but Facebook doesn’t have Facebook Events App.

Proposed System

Proposed System

1. **Authentication :** The user will be able to login into the app using Google mail.
2. **Local Events:** The app will use the user's location to show the events near them.
3. **Online Events:** The users will also be able to join online Events, which are held on online platforms like Bluejeans, Google Meet, Twitch etc.
4. **Registration:** The users will be able to register for events they like, with the help of google forms available in details page.

5. **Searching :** The users will be able to search the events in categories like :
    a. Shopping Events
    b. Tech Events
    c. Business Events
    d. Concerts
    e. Meetups
    f. Parties
    g. Sports
    h. Health and Wellness
    i. Comedy
    j. Cultural
6. **Post Events :** The Event organizers will be able to create online and offline events in the app. They can also set maximum attendees for any event.
7. **Public Reaction:** People will be able to like any event page

Advantages

For Users

1. **Quality Time:** Spending time effectively by finding the right events that suit them quickly.

2. **Registrations:** Registering for events easily using the App.

3. **Assistance:** Getting assistance from events organizers through their contact details and mail id’s.

For Event Organizers

1. **Reachability :** The event organizers will be able to reach more audience and attract them to their events.

2. **Marketing with lower cost:** Event hosts can market their paid events/webinars to a wider audience with cheap cost using our app, which will enable them to earn more profit.

Functional and Non-functional requirements

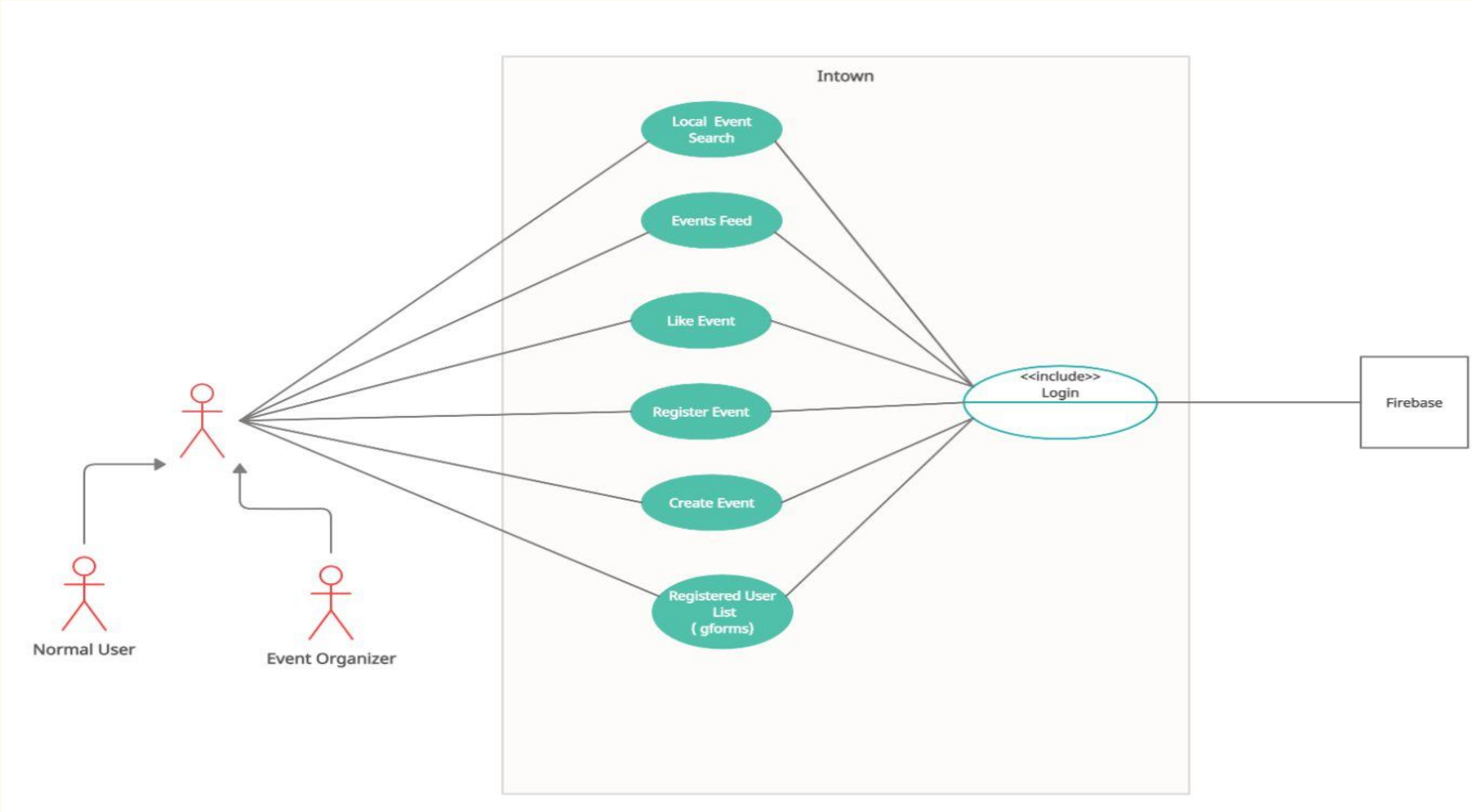
Functional Requirements

1. Users will use Google to Login to the App.
2. The Event Hosts will able create online and offline events along with its details
3. The Event hosts will be able to set a maximum count for the attendees.
4. The users will be able to search offline events and online events(Blue jeans, twitch, gmeet etc..) happening around them.
5. The user will be able to filter events in their preferred category (like Shopping, Meetups, Concerts, Parties, Comedy etc..)
6. The users will be able to register for the events easily through google form
7. Users will be able to like on the events they are interested in.

Non Functional Requirements

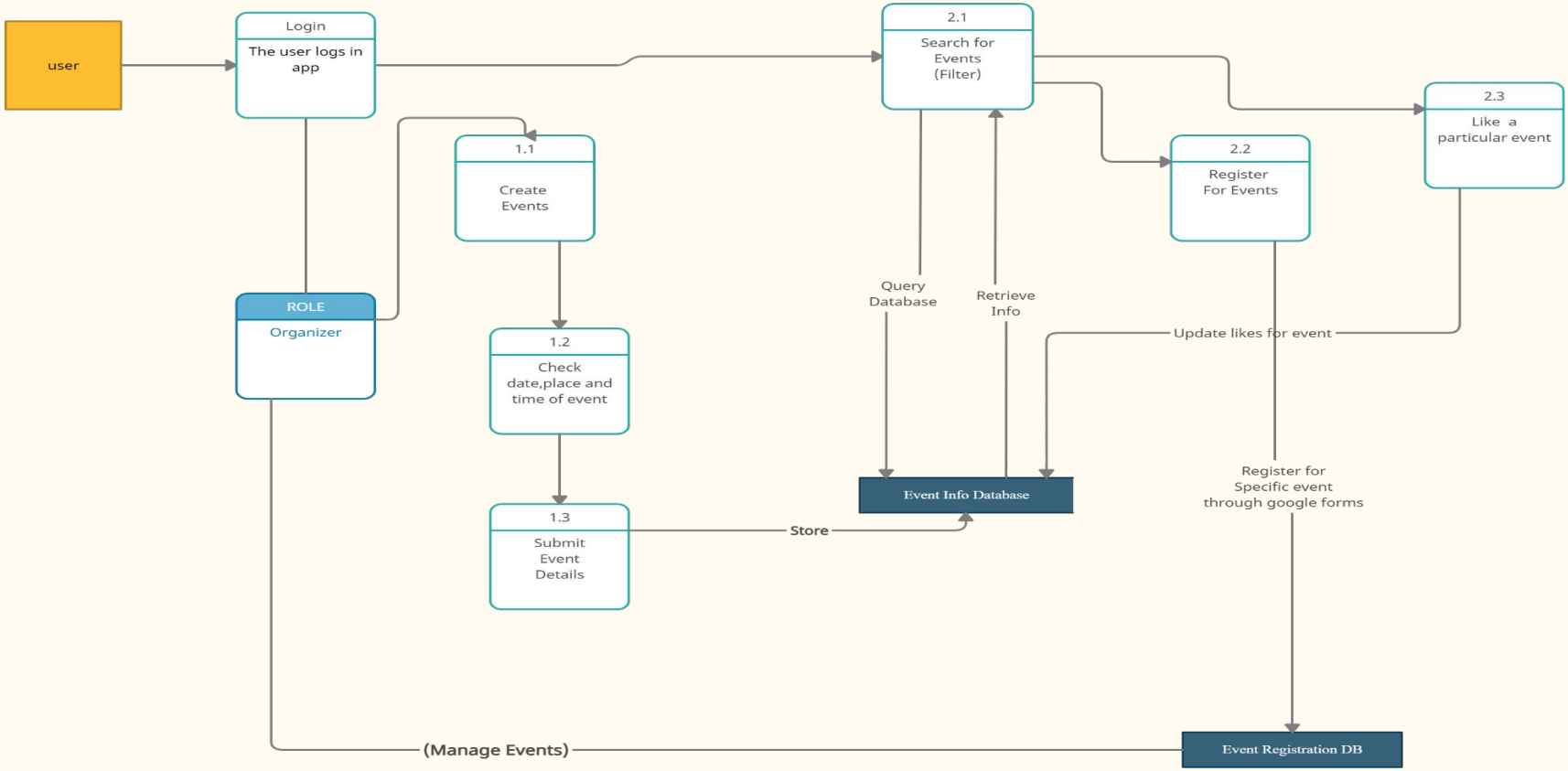
1. There will be Maximum Time Availability
2. The app will require device location permission to search nearby events.
3. There can be a maximum of 100 users at any given time.
4. The App will run on both Android and IOS

Use Case Diagram


Intown
Local Event Search
Events Feed
Like Event
Register Event
Create Event
Registered User List (gforms)
<<include>> Login
Firebase
Normal User
Event Organizer

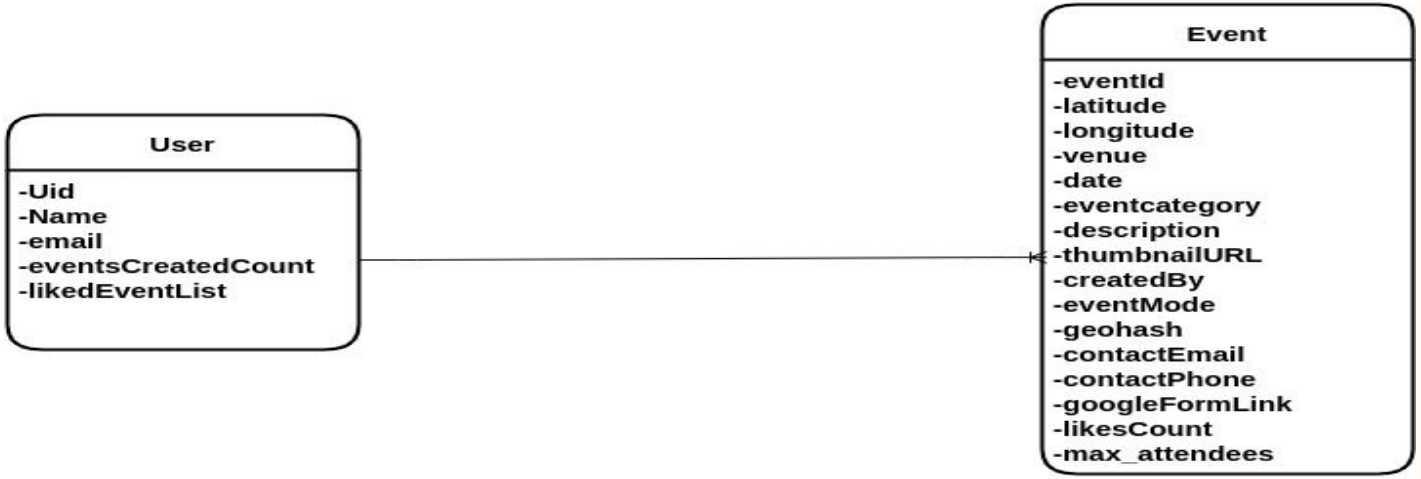
Data Flow Diagram

Level 1: DFD


user
Login
The user logs in app
ROLE
Organizer
1.1
Create Events
1.2
Check date,place and time of event
1.3
Submit Event Details
Store
2.1
Search for Events (Filter)
Query Database
Retrieve Info
2.2
Register For Events
2.3
Like a particular event
Update likes for event
Event Info Database
Register for Specific event through google forms
(Manage Events)
Event Registration DB

Database Design

Database Schema Design



- One user can like/unlike many events
- One User can like an event only one time
- Each Event will have one list of registered users in google forms

Software Part

Software Tools

1. **Client Side:** React Native App
2. **Server Side:** Firebase
3. **Development Tools:** Visual Studio Code, Android Virtual Device
4. **Programming Language:** JSX.
5. **Tested on :** Android Emulator

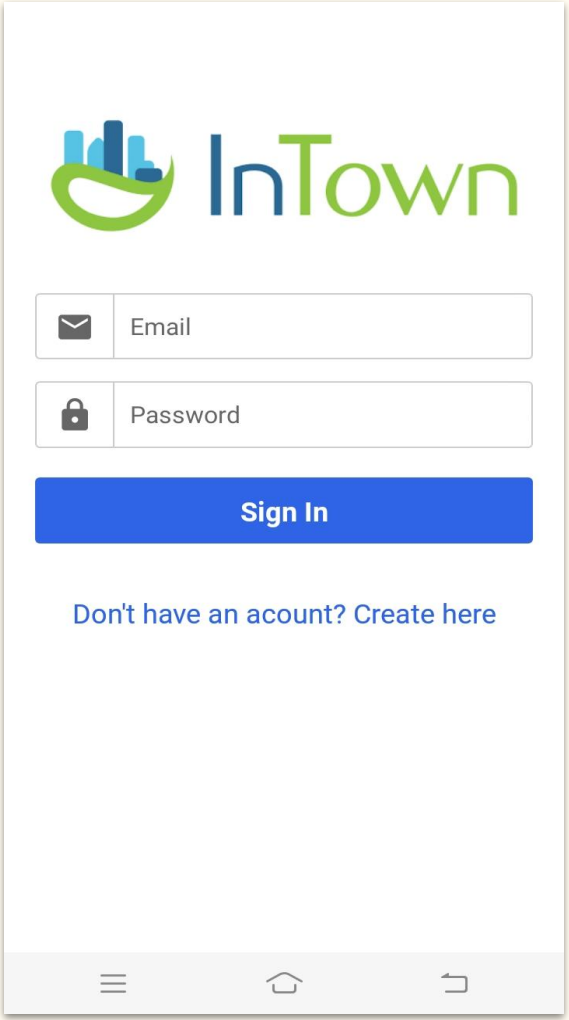
Deployment

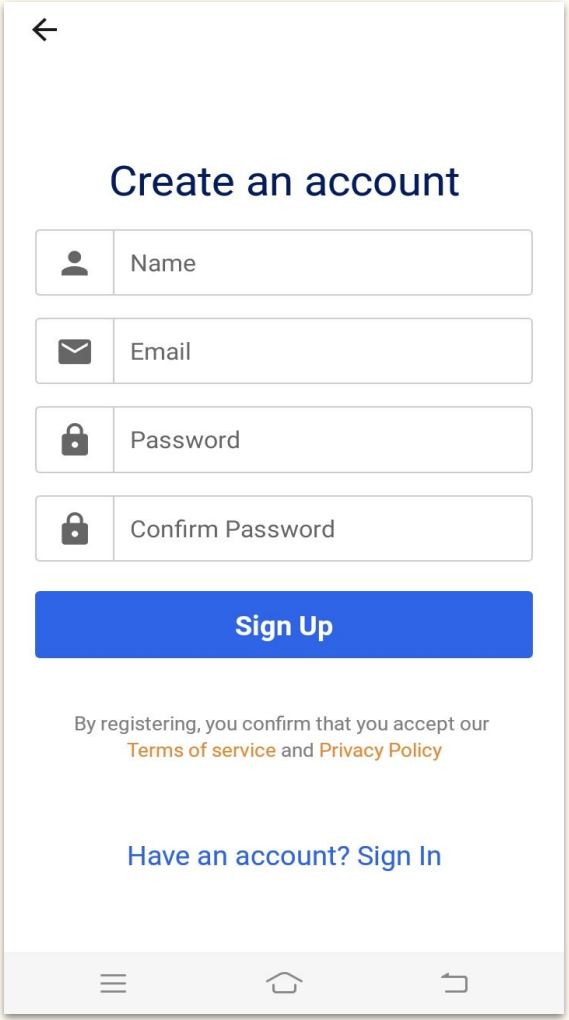
1. **Operating System:** Android 8+

Hardware Specifications

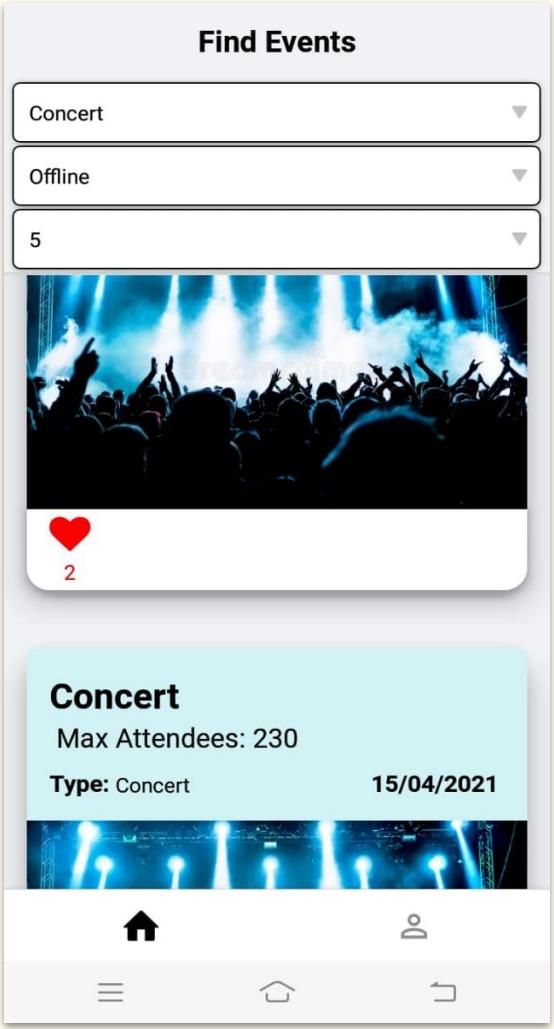
1. **Device :** Android Phone
2. **Ram :** 2GB+

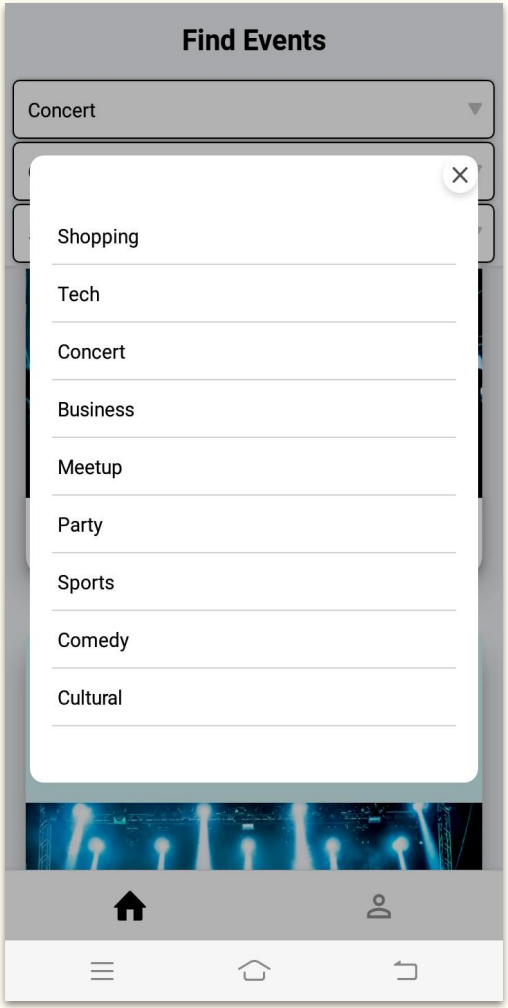
Screens



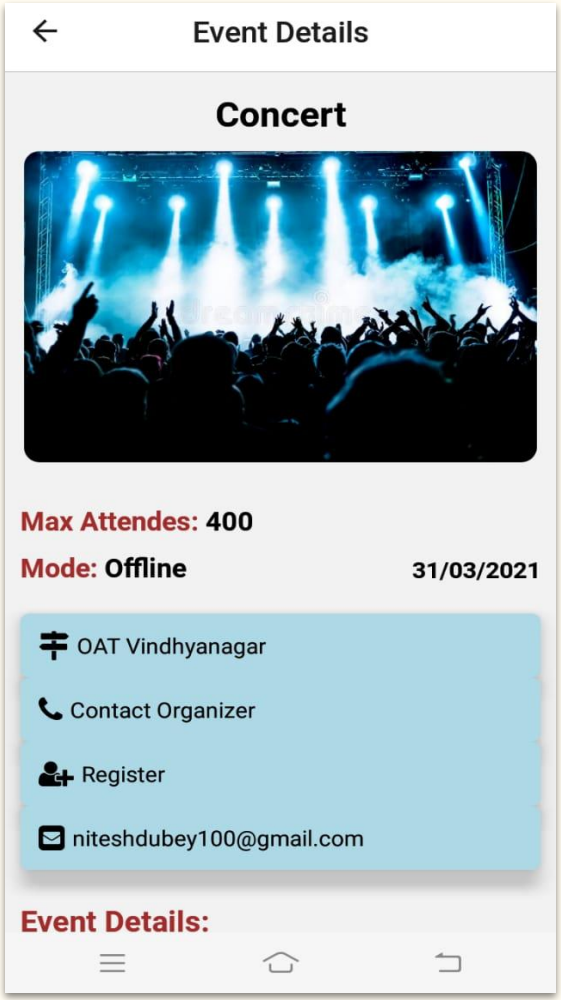


1) Login Screen
2) Create Account Screen

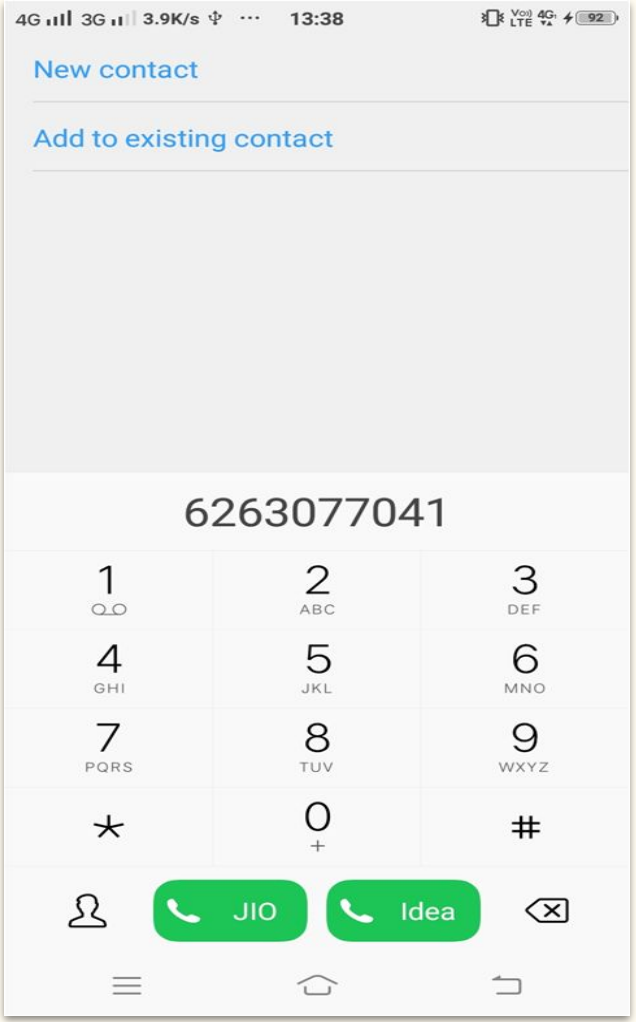




3) Event Screen with Filters based on category, (offline/online), Distance

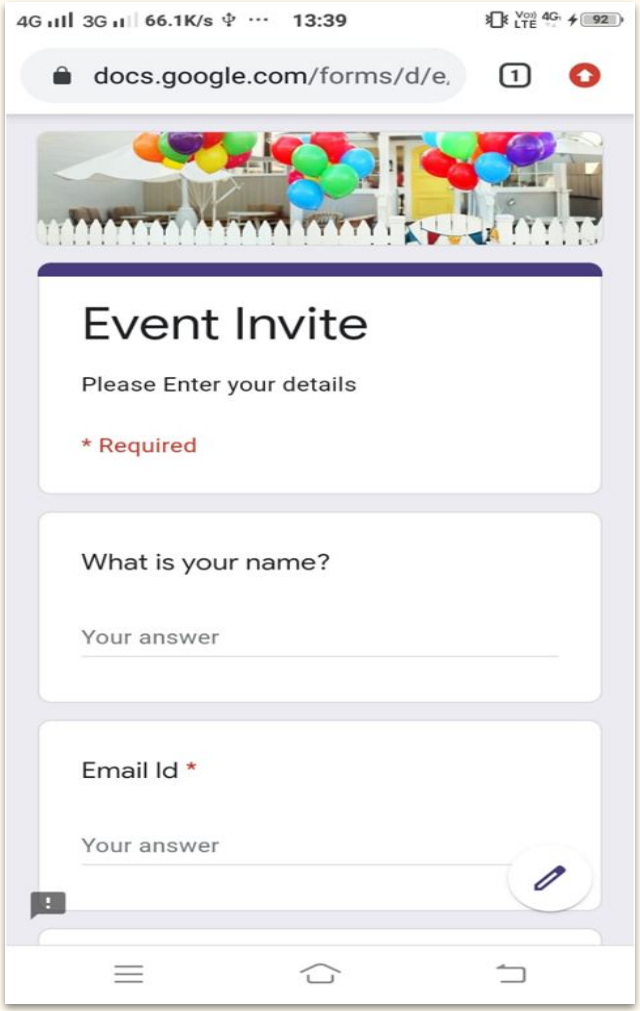


4) Event Detail Screen

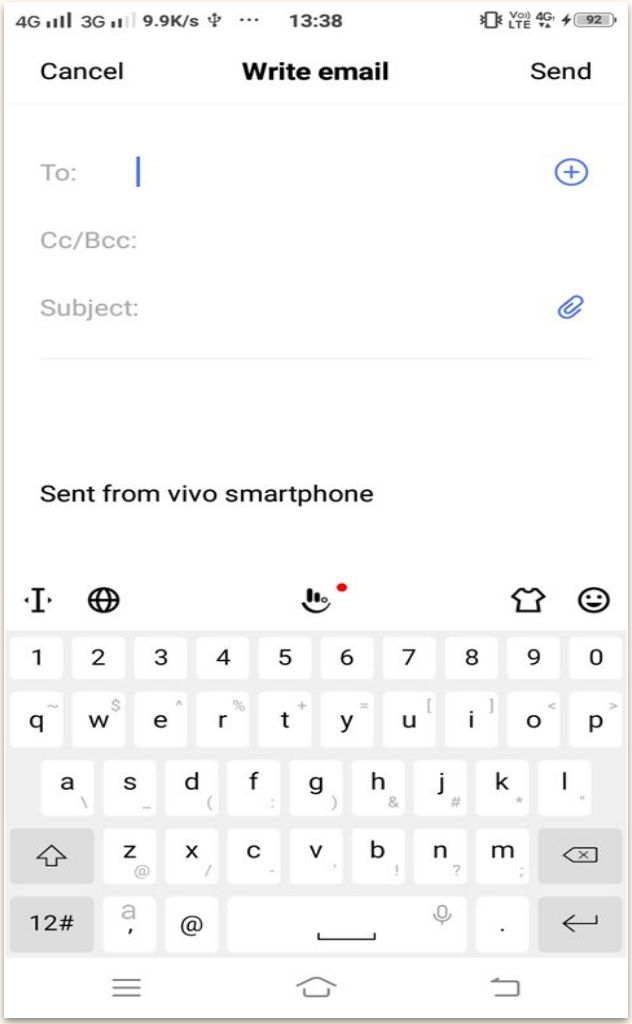


5) On press- Contact Organizer

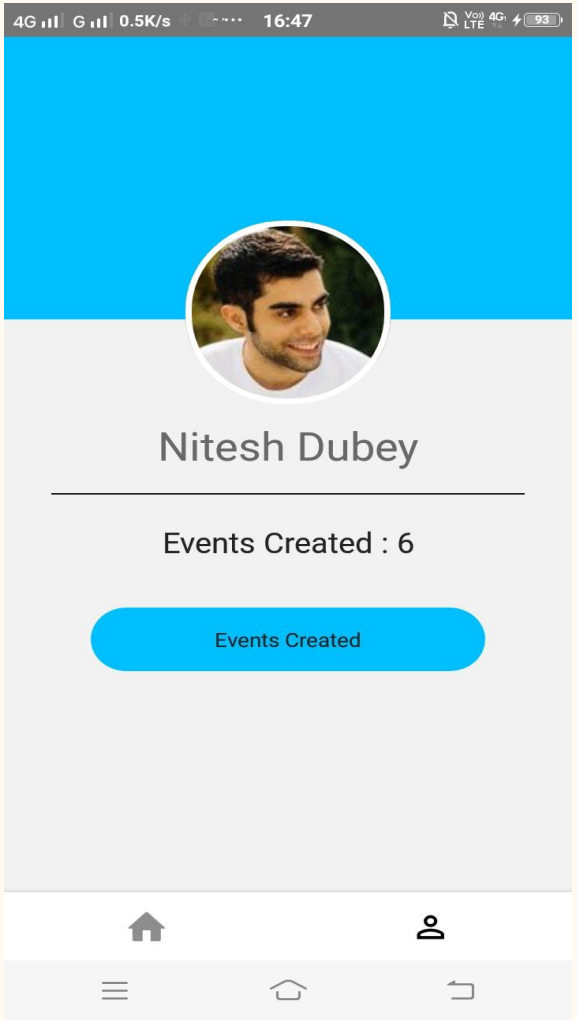
6) On press- Location

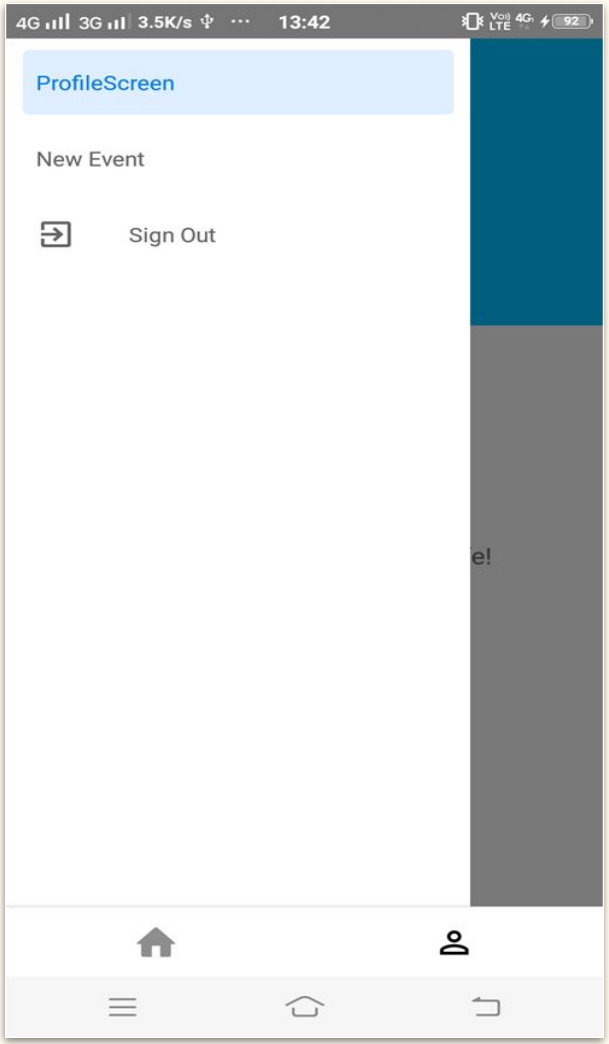


7) On press- Register direct to google forms

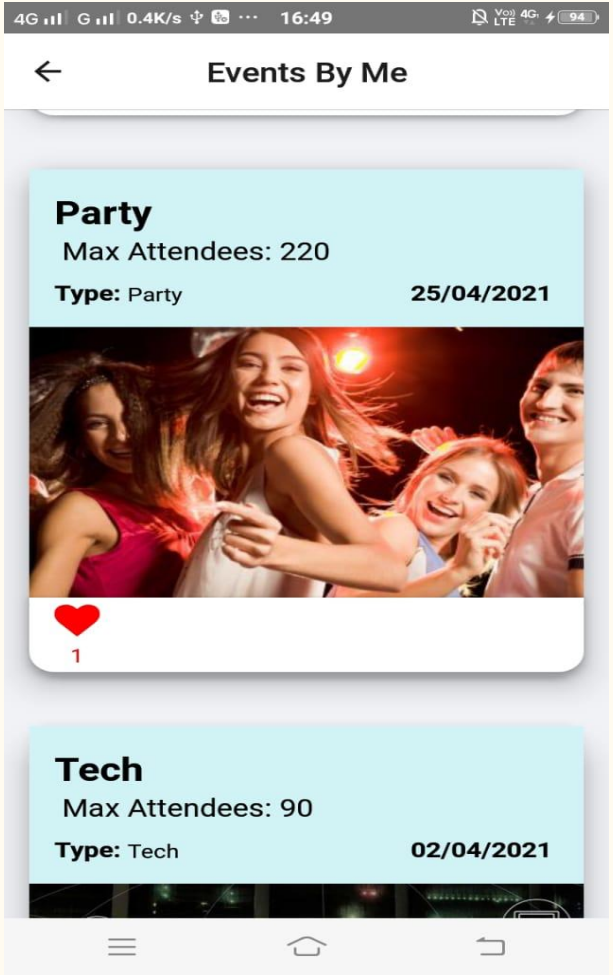


8) On press- mail



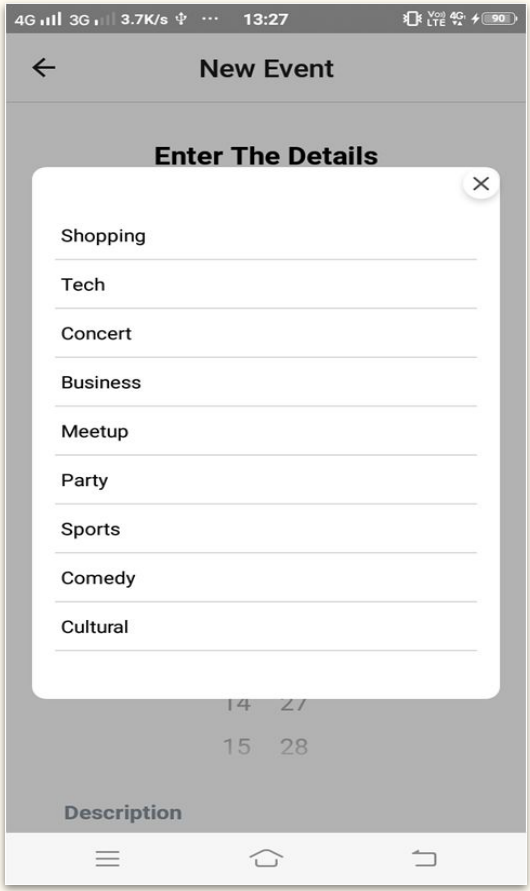


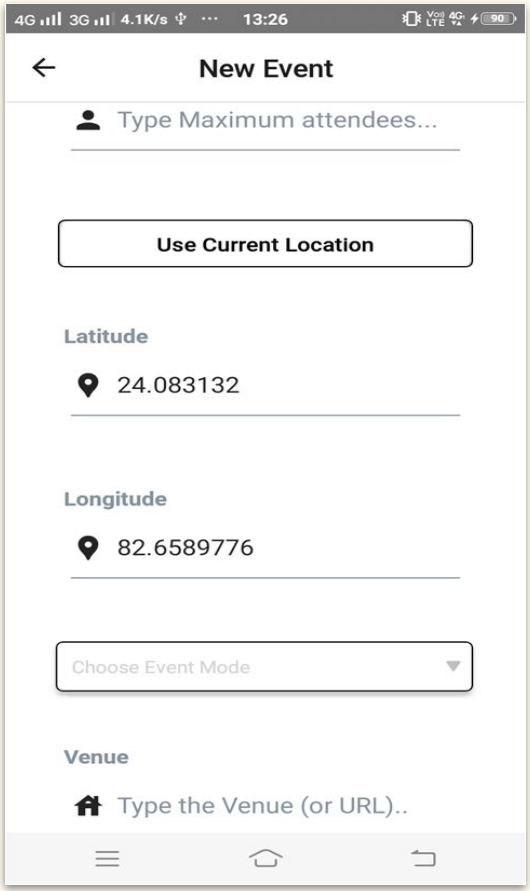
9) Profile Screen with create event and logout options

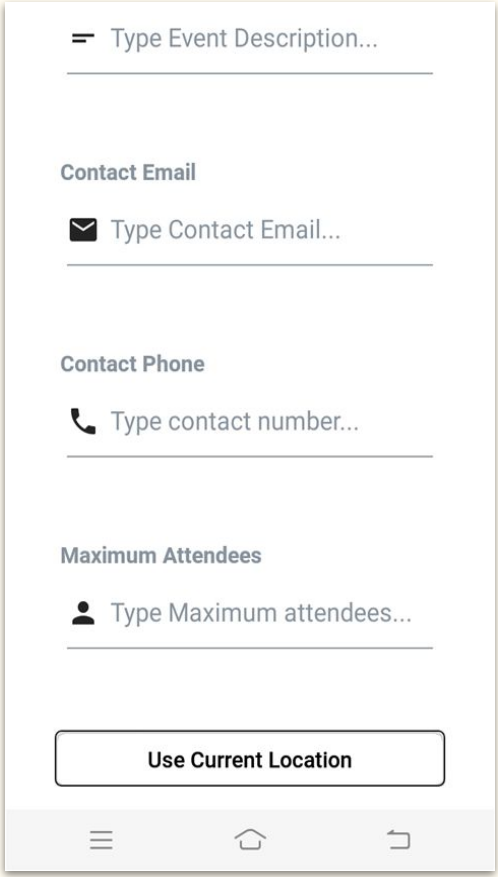


10) Events created by user

11) Create Event Screen







Future Plans & Conclusion

Future Plans

1) Personalized Recommendation
2) Adding reminders for events

Conclusion

Our react-native based event app currently can handle 100 users (free tier limit). It can be made more efficient with the help of advanced google map api for searching locations

Contribution

Nitesh Kumar Dubey :

a. Project Proposal, SRS, Use case diagram, db design
b. Project Implementation : Backend (using Firebase),User Authentication, Signin and Signup screen UI, App Navigation and State Management, Geolocation Services implementation, Event Screen UI and Backend, Create New Event Screen, Event Detail Screen, Likes feature Implementation, Profile Screen (added Events created by me)
c. Report.

Thirumurugan R. :

a. Project Proposal, SRS, DFD, db design
b. Project Implementation: Profile Screen UI, Event screen UI, Event details UI using dummy data, Google Maps Api in Detail page, Black Box testing of App.
c. Report and PPT

Demo Video