Mobile App to Manage and Advertise Innovation, Research and Development (IRD) Activities at IIIT Delhi

INDRAPRASTHA INSTITUTE of INFORMATION TECHNOLOGY DELHI

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IRD

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Problem Statement

Build a Mobile App to manage and advertise the IRD Activities at IIIT Delhi. Develop a single platform for all Research related queries. The App must be robust, user friendly and self sufficient. It should be connected to the Cloud to enable Information transfer. Create it as an 'In-house App' that is accessible by all people associated with IIIT Delhi.

About the App

The App manages various IRD Activities such as the details of the Weekly Seminars and adding them to Google Calendar in one click; following the various accomplishments of people from the IIIT Delhi family through Research News updates; posting and searching for job openings (BTP/IP/Internships etc) in their respective fields. Our App aims to successfully achieve all these goals apart from few more enhanced features.
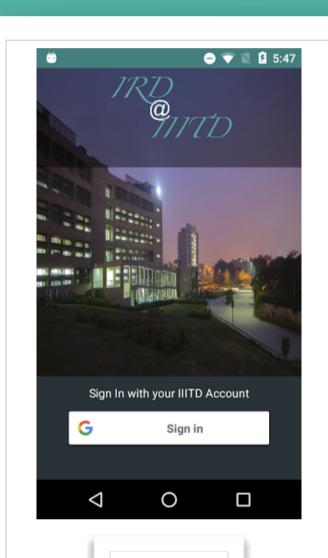
It makes use of Android Studio, Java Programming, JSoup Library and a few APIs to implement the features so far. For the next stage of the project, FireBase Cloud Services will be used to make the App cloud based. Once that is tested, the cloud based services will be shifted to IIIT Delhi Servers to make the app self reliant and secure.

Implementation

We have used **Google Authorization** to validate the user. We have built the feature to extract Seminar Details from the IIITD Website in real time using **JSoup Library** and displayed it using the **RecyclerView** Layout. The **Google Calendar API** has been used to create Seminar Events in the Calendar. This feature also provides **Notifications** and **Map** services. The App is equipped with the feature of posting New Jobs that can be viewed by all users.
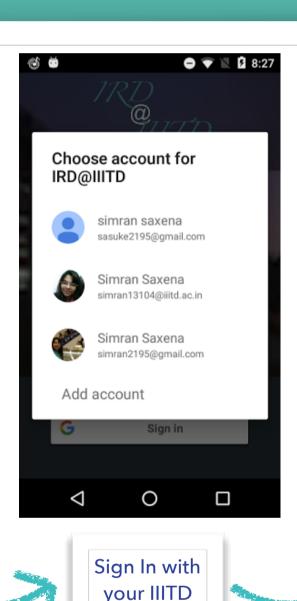
Future Prospects

1. The App will be hosted using Cloud Services to enable data from the App to be pushed onto the Server, and be fetched on choice.
2. The Users would be able to post IP/BTP/Internship Openings. The details from these forms would then be used to provide Filter options.
3. Keyword Based Searching would be used to fetch data from the Server.
4. The Users would have an option of receiving updates via Notification services.
5. An option of inviting friends for specific Seminars would be provided.
6. The App would cover the relevant sections of the Research Tab from the IIIT Delhi website.
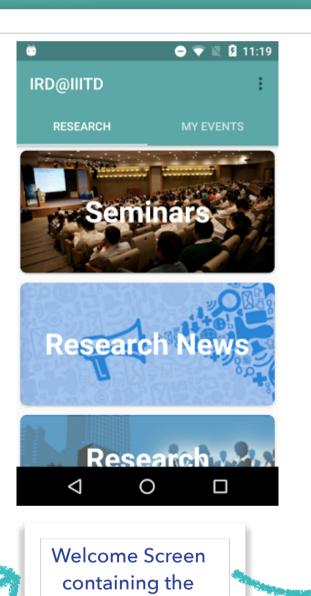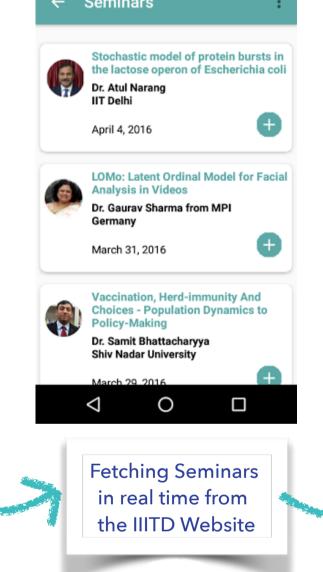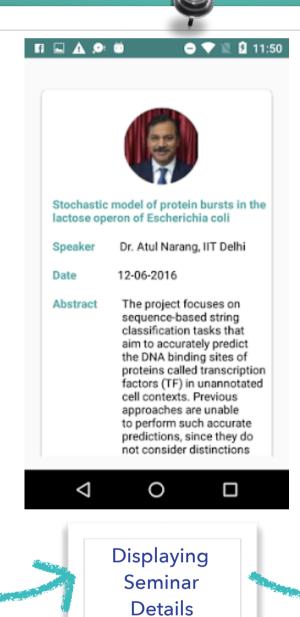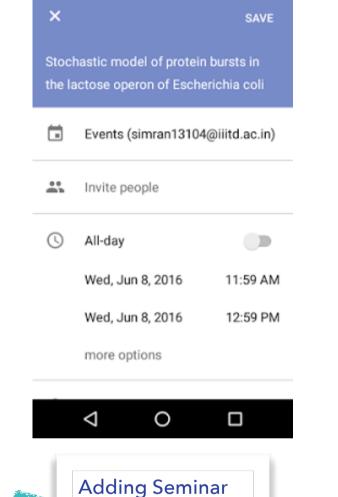7. Live Countdown until The Seminar.

Login Screen → Sign In with your IIITD account → Welcome Screen containing the major tabs → Fetching Seminars in real time from the IIITD Website → Displaying Seminar Details → Adding Seminar to Calendar in a single click → Event created in the Calendar → Event Notification → View Event Location on Maps
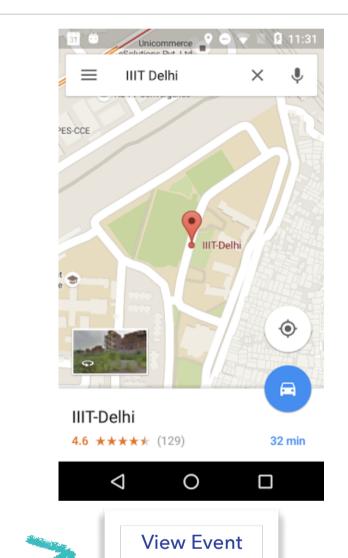
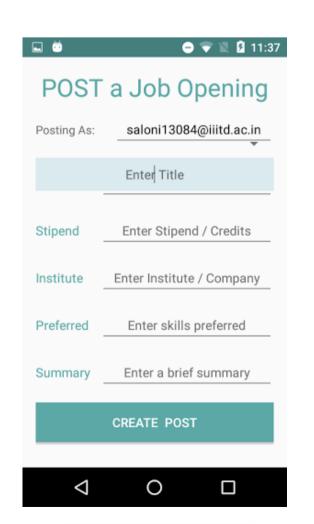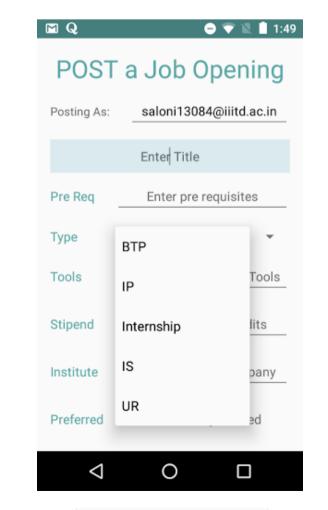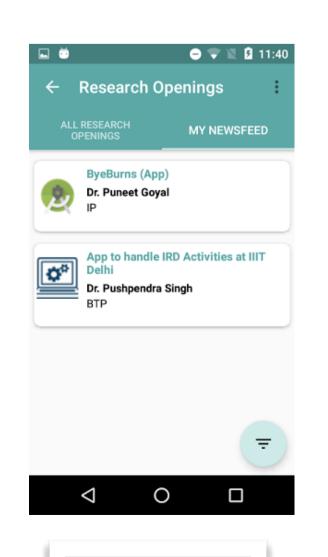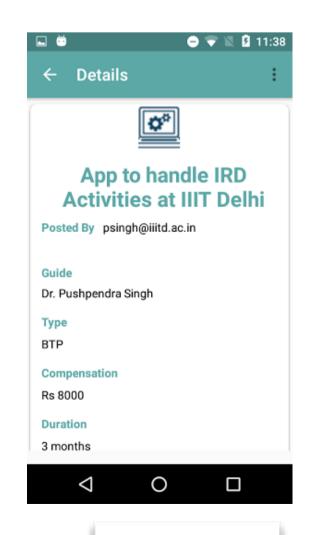List of Seminar events added to the calendar → Research News from IIIT Delhi → Details of the News item clicked → View all Research Ope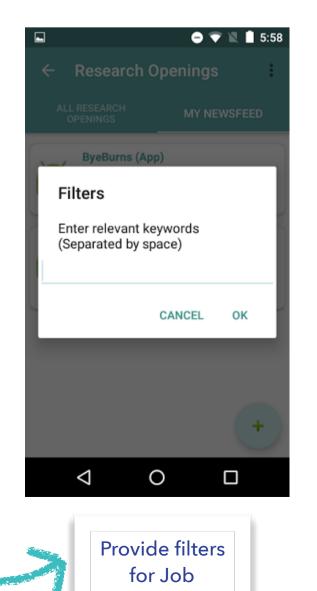nings → Post a new Job Opening → Drop down Menu options → List of Job Openings based on Filters Chosen → Details of the Project selected → Provide filters for Job Openings