

# **MOBILE APPLICATION DEVELOPMENT**

FINAL PROJECT REPORT

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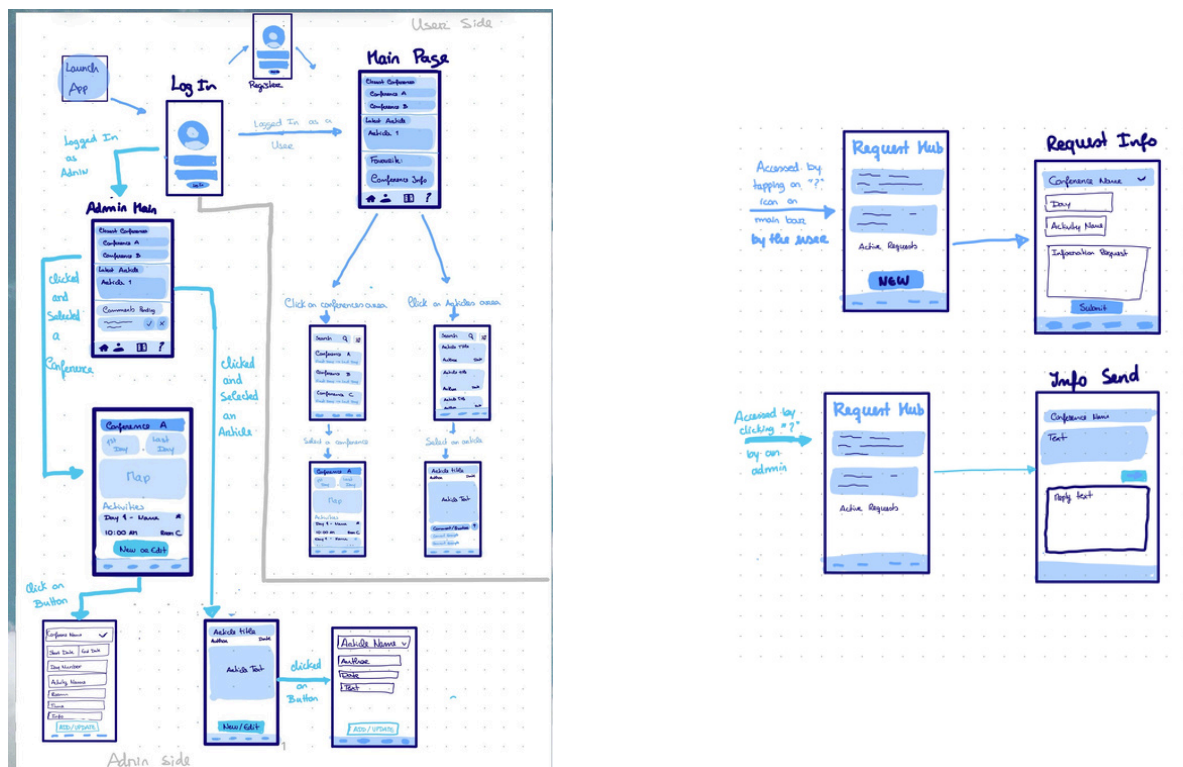
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# Introduction

For the final project of the subject Mobile Application Development, we were assigned to develop a mobile application to help manage and display scientific conferences that are happening or will happen in a near future. The Application displays all the information related to the conferences, such as the based articles, the schedule and the precise location.

## Project Overview



These images are a mockup, which we sent on the first project delivery, which acted as a base for the project overall. There were some alterations/ upgrades made but the main structures remained the same, which we will go in detail more in the next chapters.

Extra information - Admin's credentials:

- Username: admin@gmail.com
- Password: admin123

User credentials to test the app:

- Username: rodrigo@gmail.com
- Password: 123123

# Application Flow and Functionalities

Once the user launches the app, it opens on the log in page, and after the user signs-in the application, it redirects to the Main Page.

From the Main Page, the user is able to view the ongoing conferences and articles, and see the information by clicking on the buttons available.

On the application, the user can use the search functionality to browse and find either articles or conferences more quickly.

When choosing a specific article, the user can read all related informations about it, such as the authors, the date of publishment and the article text. The user is also capable to post comments and ask questions on the articles.

After selecting a conference, the user can find information about it, such as the days when it will be active, a map with the location address and the presentations scheduled for each day.

If an admin launches and logs in with the admin credentials, the main page to which it redirects to is different. In the Admin's main page, the admin can manage the existing conferences and articles - he is able to edit or delete them - but can also create new ones. The admin also has the functionality of deleting comments posted by the user.

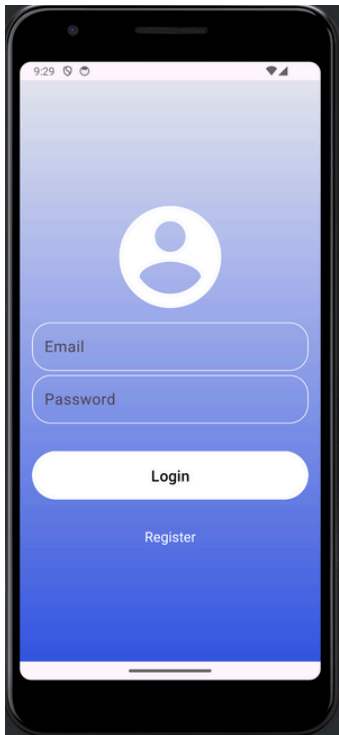
## Database

We settled on using the Firebase platform to provide the databases for the project.

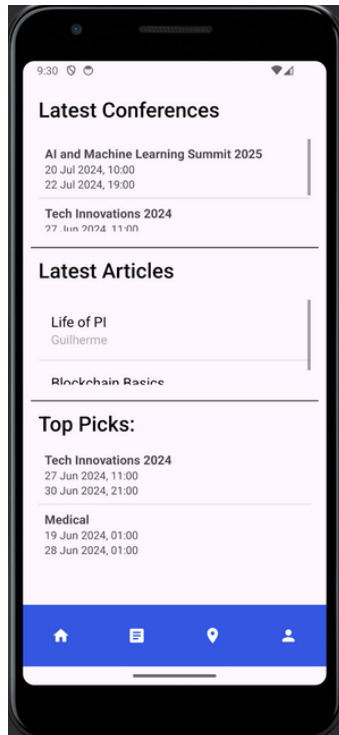
We have two main sections inside the Firebase:

- **Authentication Database** - Used to store users information:
  - User ID, Username and Password
- **Firestore Database** - Multiple tables:
  - Articles Table:
    - Article ID, Date, Author, Title, Main Text
  - Conferences Table:
    - Conference ID, Title, MapPoint (as a GeoPoint), Start Date. End Date
  - Comments Table:
    - ID Comment, Article ID, CommentAuthorID, Main Text
  - Days Table:
    - ID Days, Activity Name, Conference ID, Day Number, Info, Room Time,

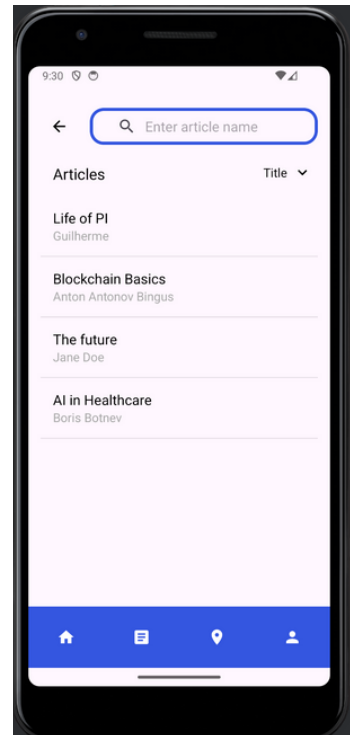
# Application Images



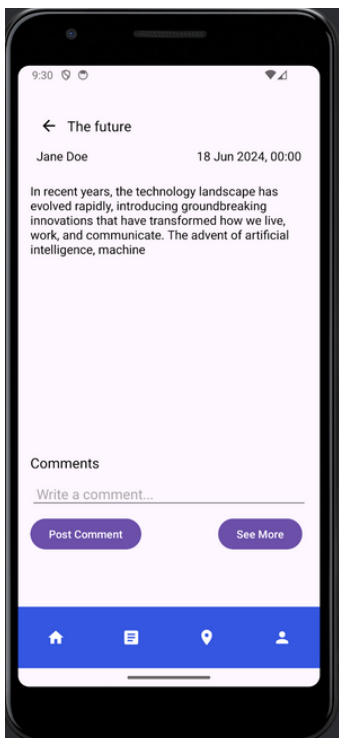
Login Page



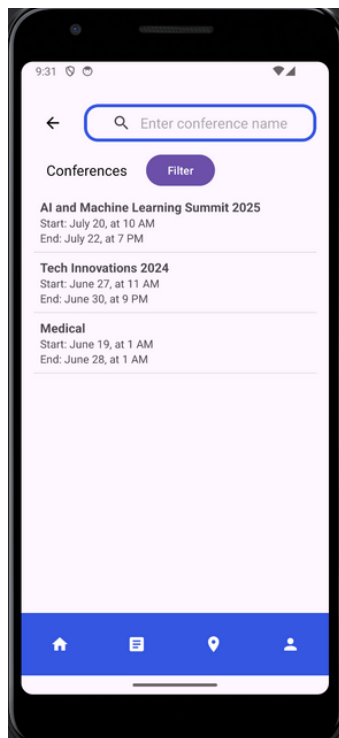
Main Page



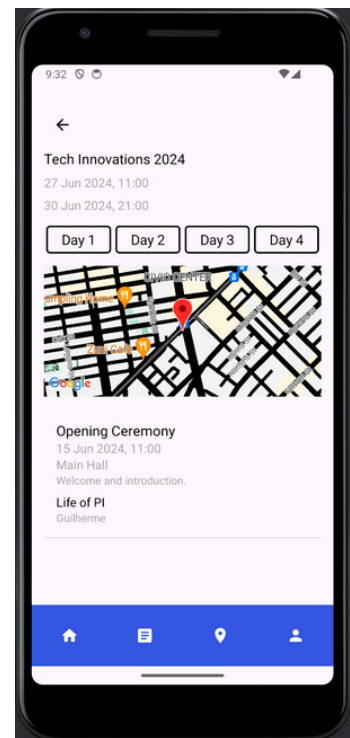
Articles Search



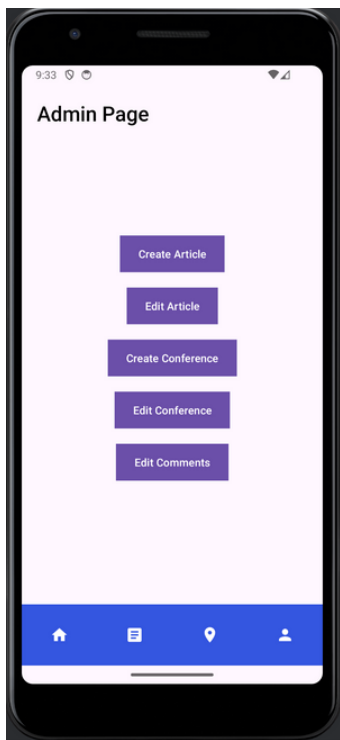
Article Page



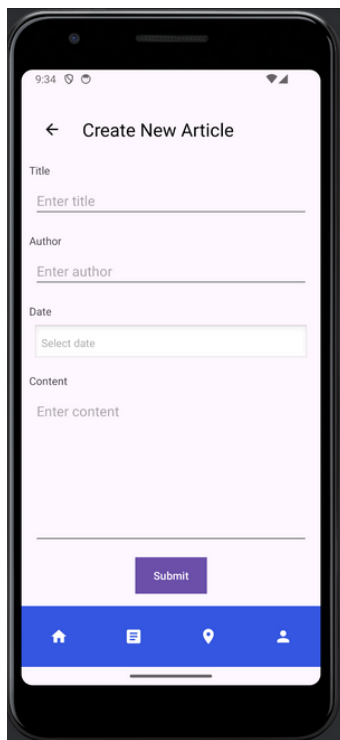
Conference Search



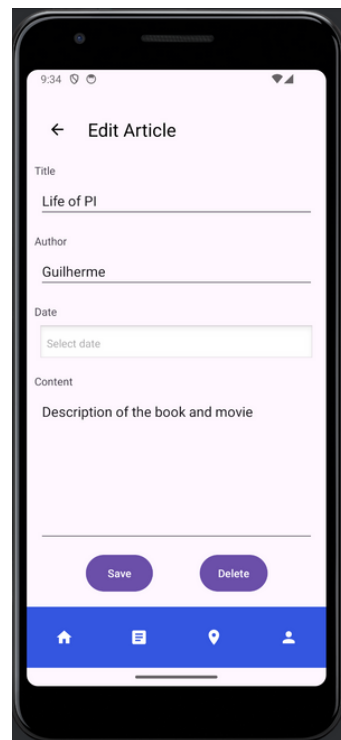
Conference Page



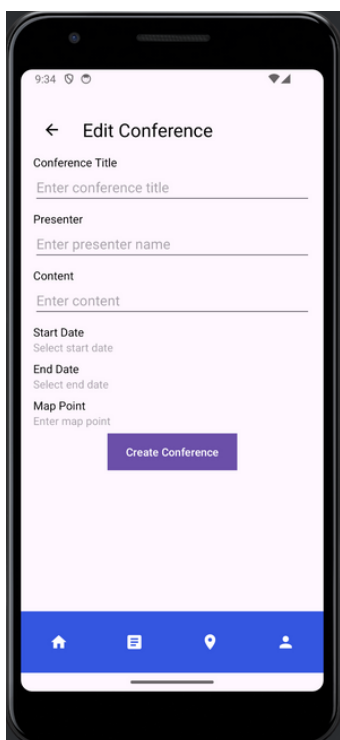
Admin Main Page



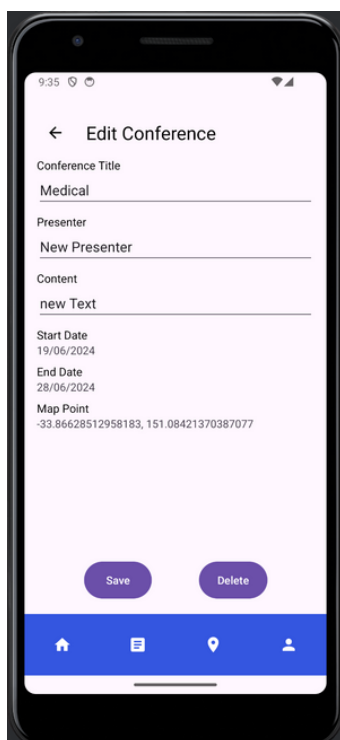
Create Article Page



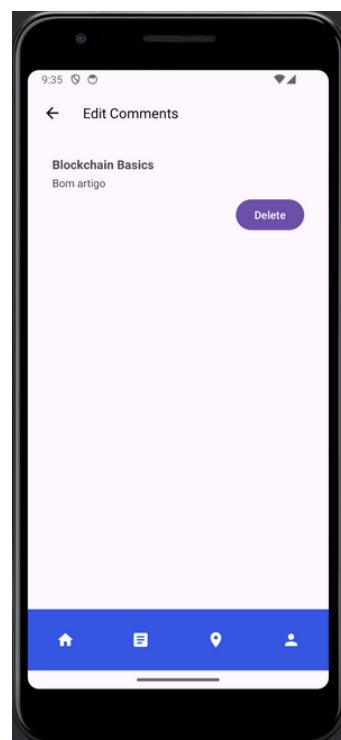
Edit Article Page



Create Conference Page



Edit Conference Page



Edit Comments Page