IS - GUIDE

Final Report

https://github.com/cm7cd/UMKC-IS-Guide

Spring 2016

TEAM - 3

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- Manne, Chaitanya Sai - 26
- Patel, Marmikkumar Navinchandra - 43
- Ponnuru, Karthik - 48

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1. Introduction

UMKC - International Student Guide (ISG)

ISG is a forum to guide students starting, from get admit to settling up in UMKC. International student will have option to register to the application and login with their credentials, Application will guide student to set a deadline for their application and come up with reminders. It will give student with overview of pre departure and post departure information.

Student will get information regarding Exams pattern and can post their queries, existing student can reply to the queries. A board will be created which will allow to track their progress. Student can start with application process by submitting all mandatory documents and wait for admit.

Once they receive their I-20, they can move with Visa process and book flight tickets, Application will provide suggestions based on destination and cost. Student can start working on their travel, necessary shopping. Predeparture can help students plan for temporary accommodation and airport pick-ups by connecting with old students with in the same city where they can post and comment about accommodation.

Post departure will consists of University Check-ins, Student Card issuing, attending Semester and academic orientation. They can look for permanent accommodation by connecting with new and old students.

2. Project Goals and Objectives

2.1 Overall Goal

Goal is to create Hybrid Application which is easy to access for students where they can plan and organize their study and living for their academic goal at UMKC.

2.2 Specific Objectives

To guide International students travelling from different geographies to UMKC to understand admission and travel process to United States.

2.3Specific features

2.3.1 Post and Comment – Students can post and comment on the queries.

2.3.2 Dashboard – Students can set up their account, track their progress.

2.3.3 Reminders – Tasks which are due will be send a reminder to students.

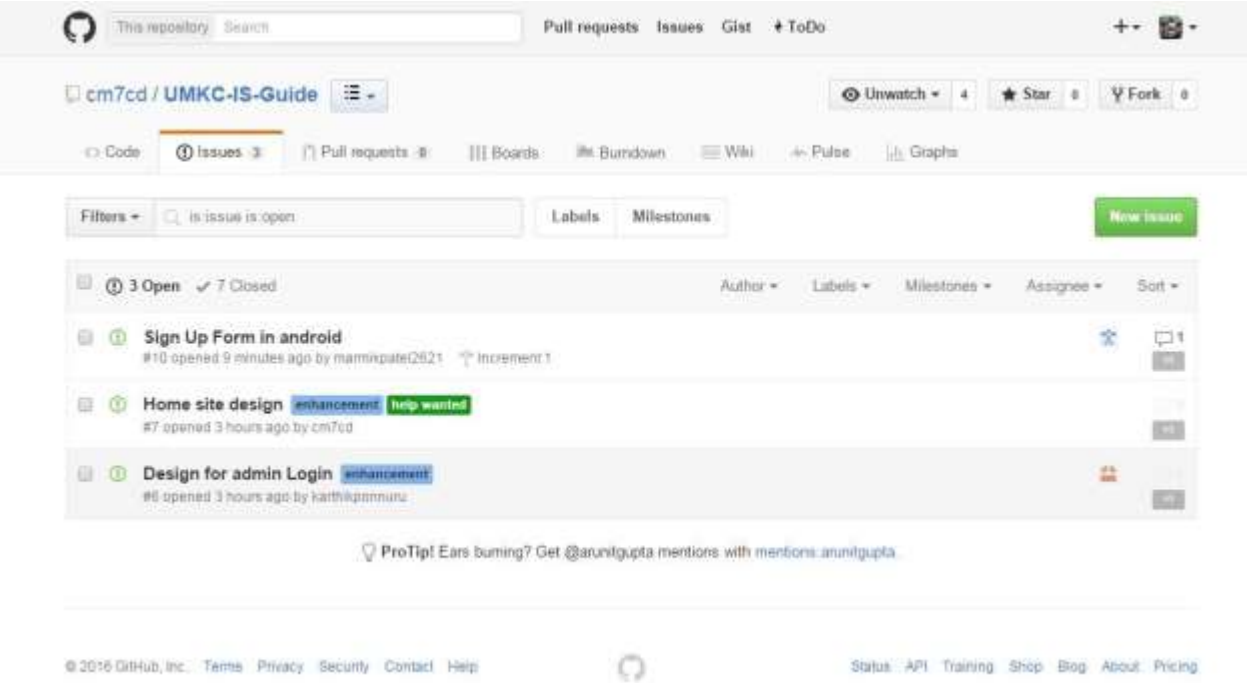
2.3.4 Allocation – Temporary accommodation will be assigned based on requirements.

2.4 Significance

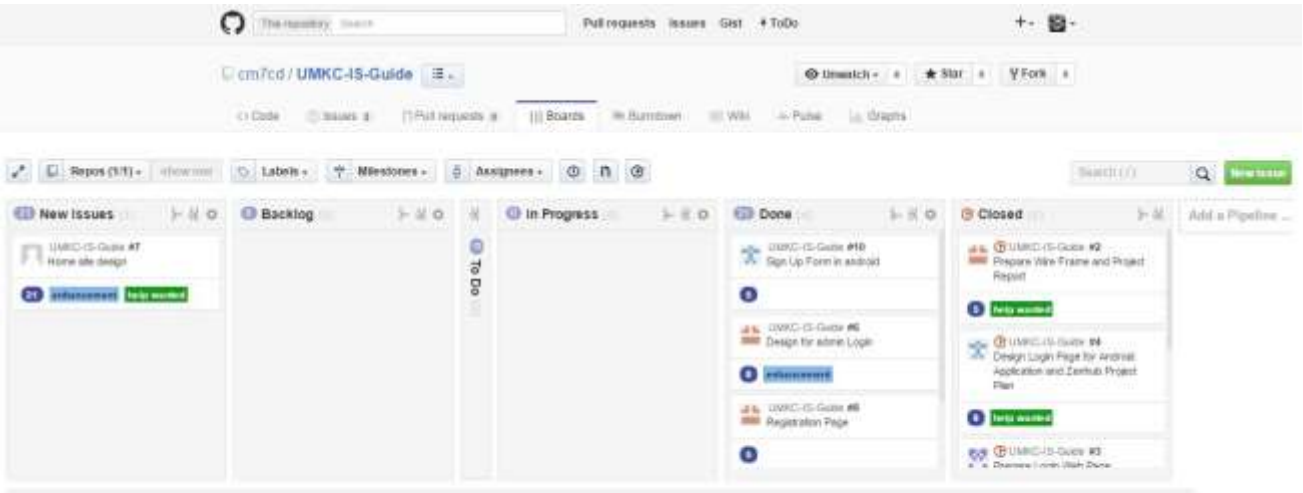
This Application provides a wide range of information to guide the upcoming students, there are a couple of sources which exist but are not official.

3. Project Plan

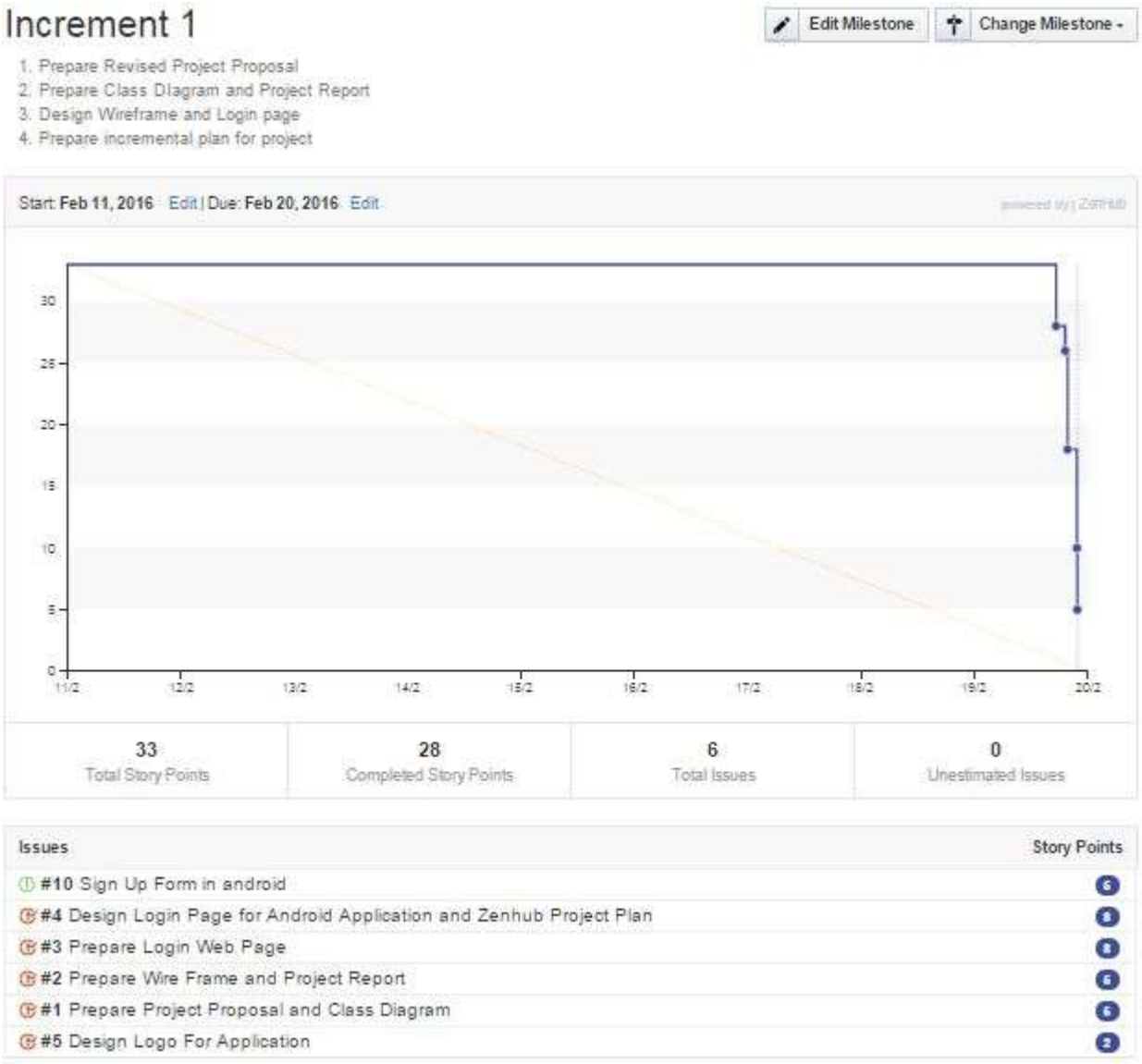
3.1 Zen Hub Screenshot



3.2 Project Timelines, Members, Task Responsibility



3.3 Burn down Chart

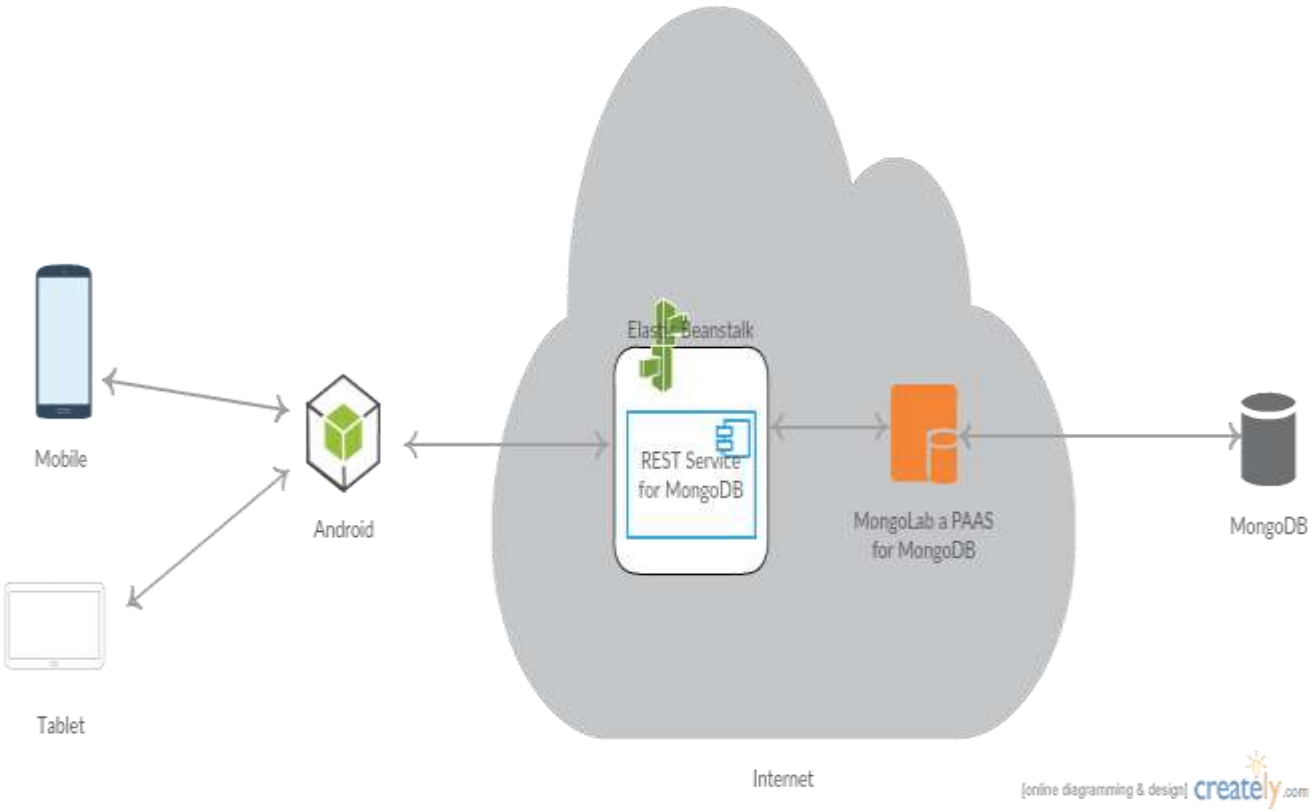


4. Technology Used

4.1 System Requirements

- ❖ Operating System : Windows 7 and above
- ❖ RAM: Minimum 2 GB RAM
- ❖ Data Base: Mongo DB (can alter depending upon future enhancements.
- ❖ Hard Disk: 500 MB and above
- ❖ Servers: Amazon Web Server or other (based on deployment)

4.2 Architecture



UMKC IS-Guide is an android application which can run on android mobile and tablet devices.

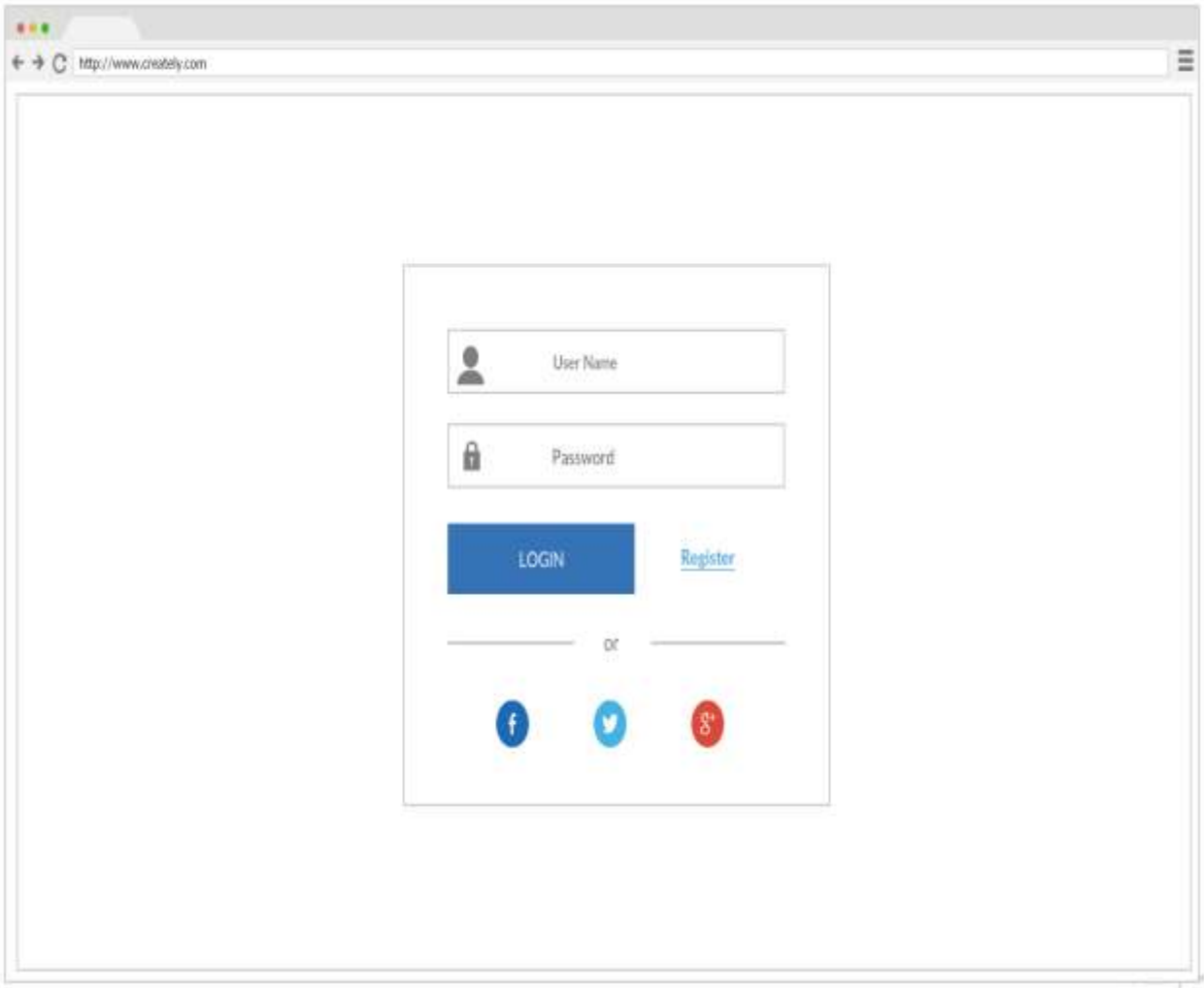
Coming on Architecture, Front end is developed in Android Studio and back end is supported on MongoDB, where we have used Mongo Lab which can be accessed using Rest service. MongoLab is used as a PAAS which is platform as a service. We have used Mongo Driver for implementation in out project for accessing database using MongoLab.

We have hosted our application on Amazon web service elastic bean stalk, which connects our front end and back end. For running this application, we require internet service for posting queries and commenting from different users across the world.

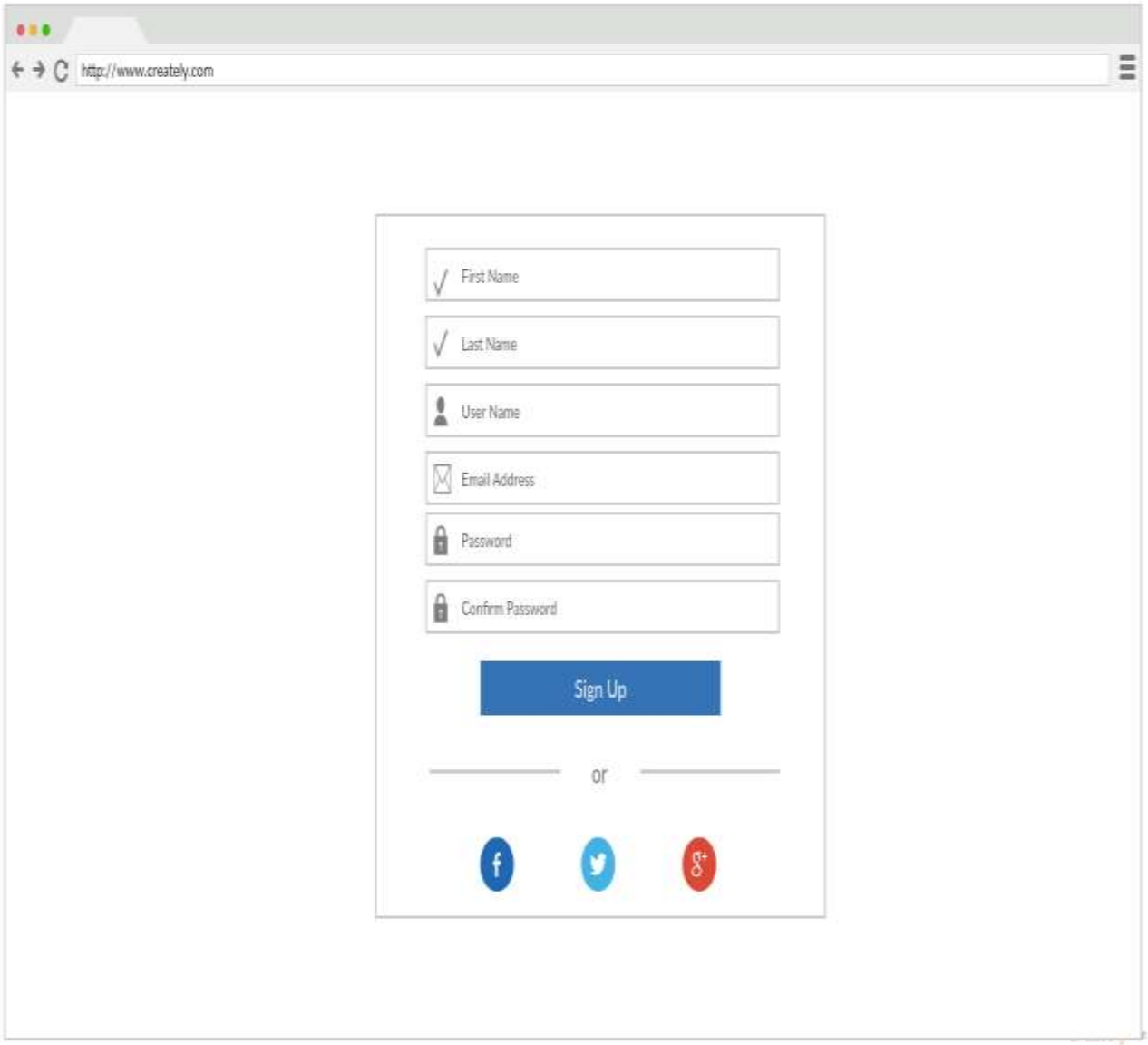
5. Design

5.1 Wireframes

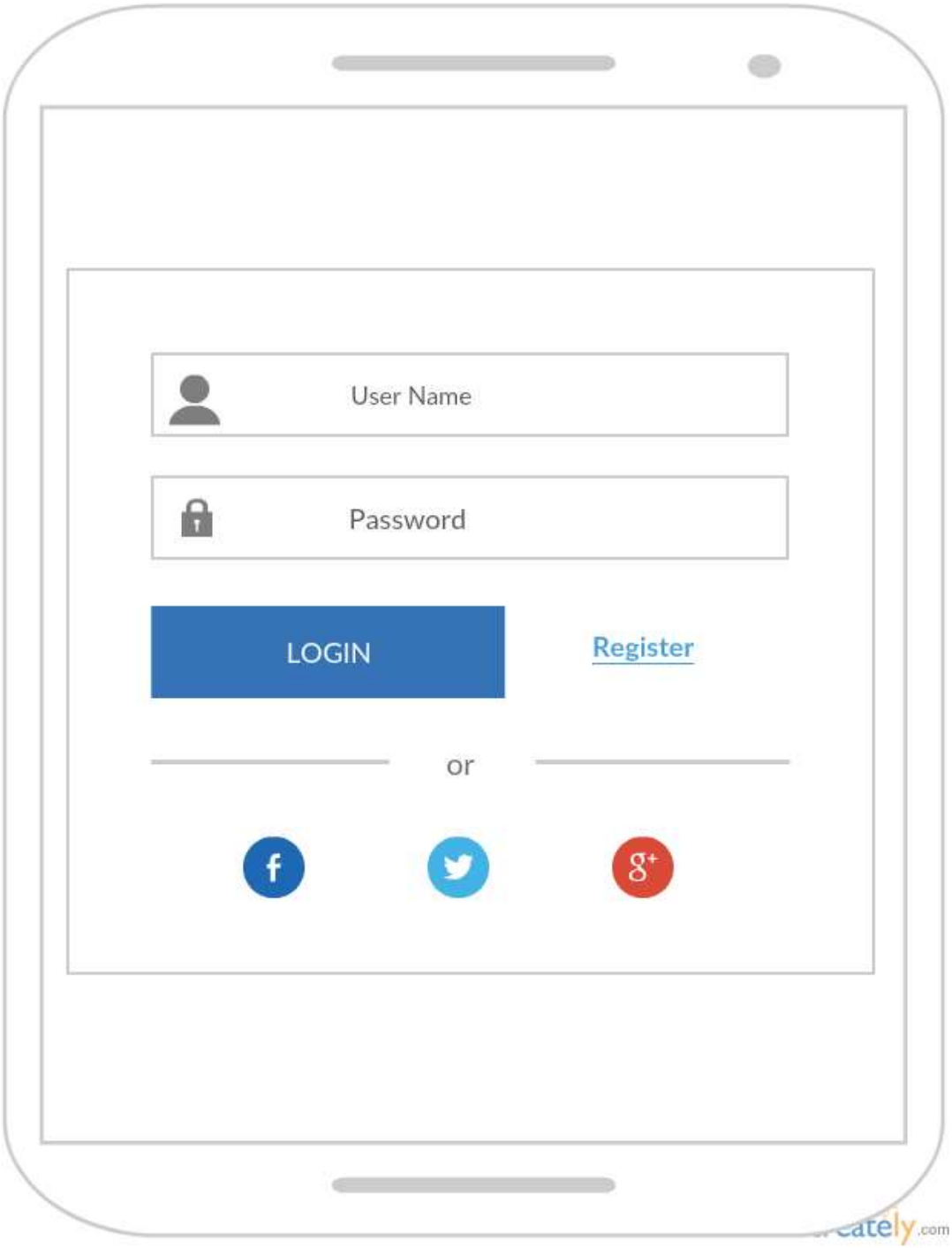
❖ Login through Website



❖ Registration through Website

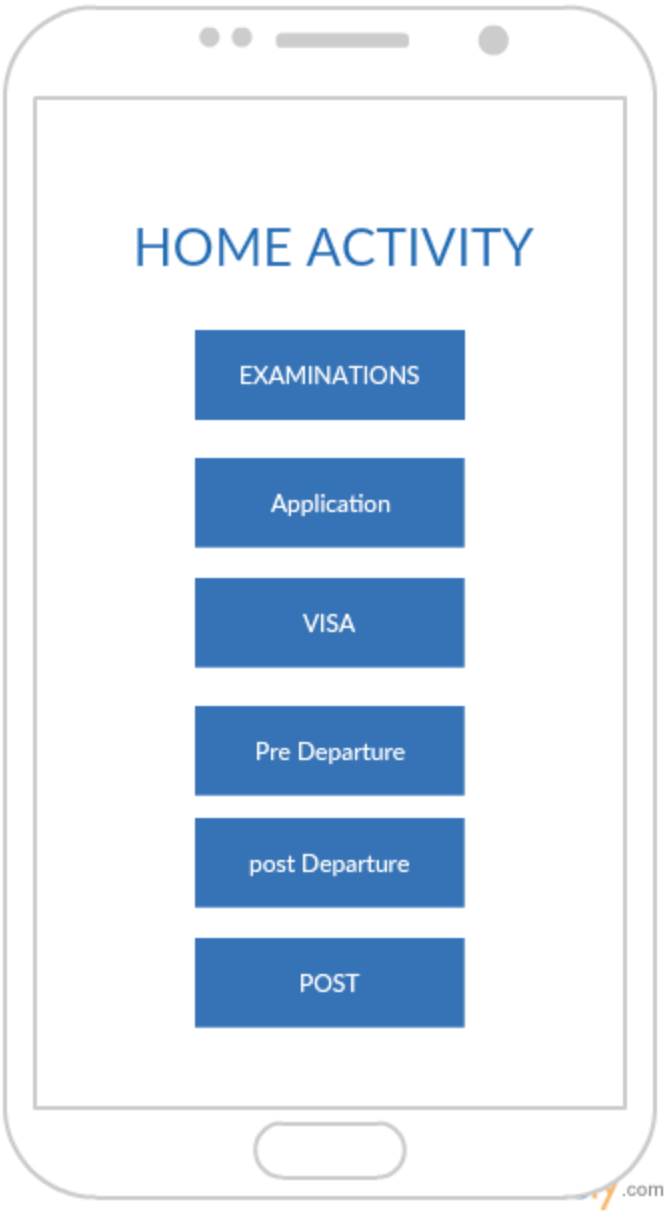


❖ Login through Android



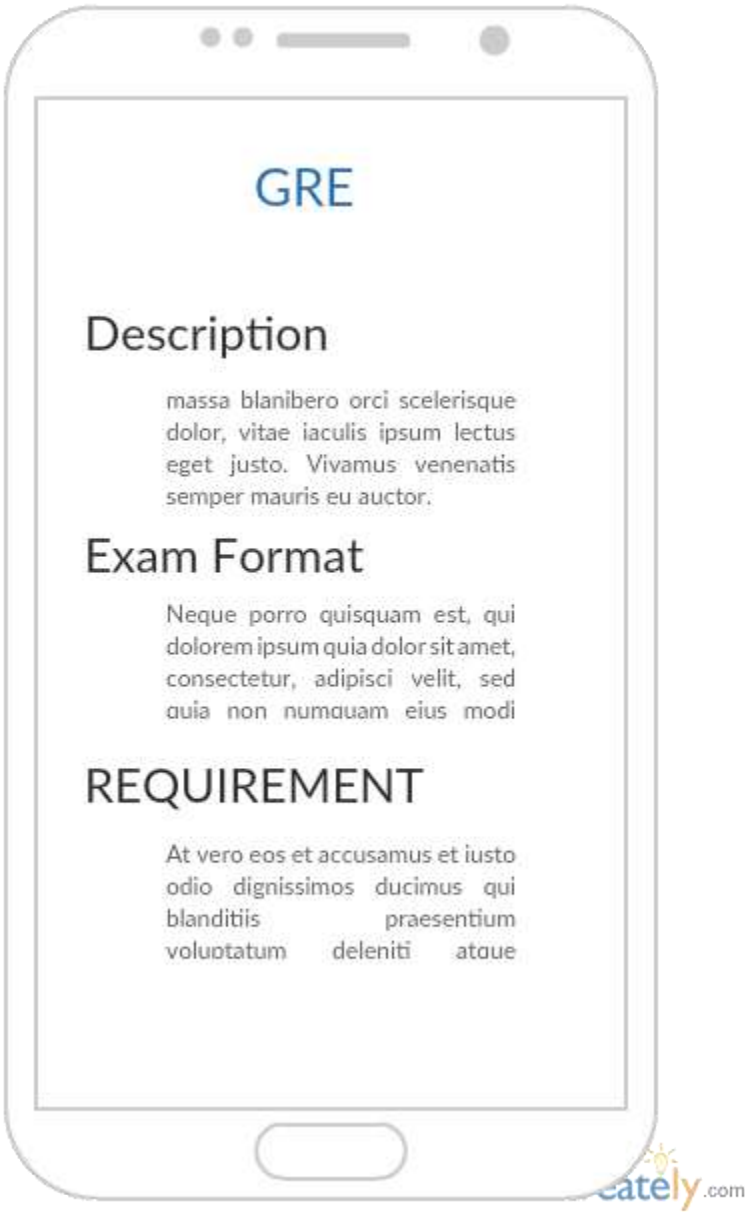
❖ Registration through Android

❖ Home Activity



❖ Exam Activity

❖ GRE Activity



❖ IELTS Activity

❖ Resource Activity

❖ TOEFL Activity

❖ VISA Activity

❖ Flight Activity

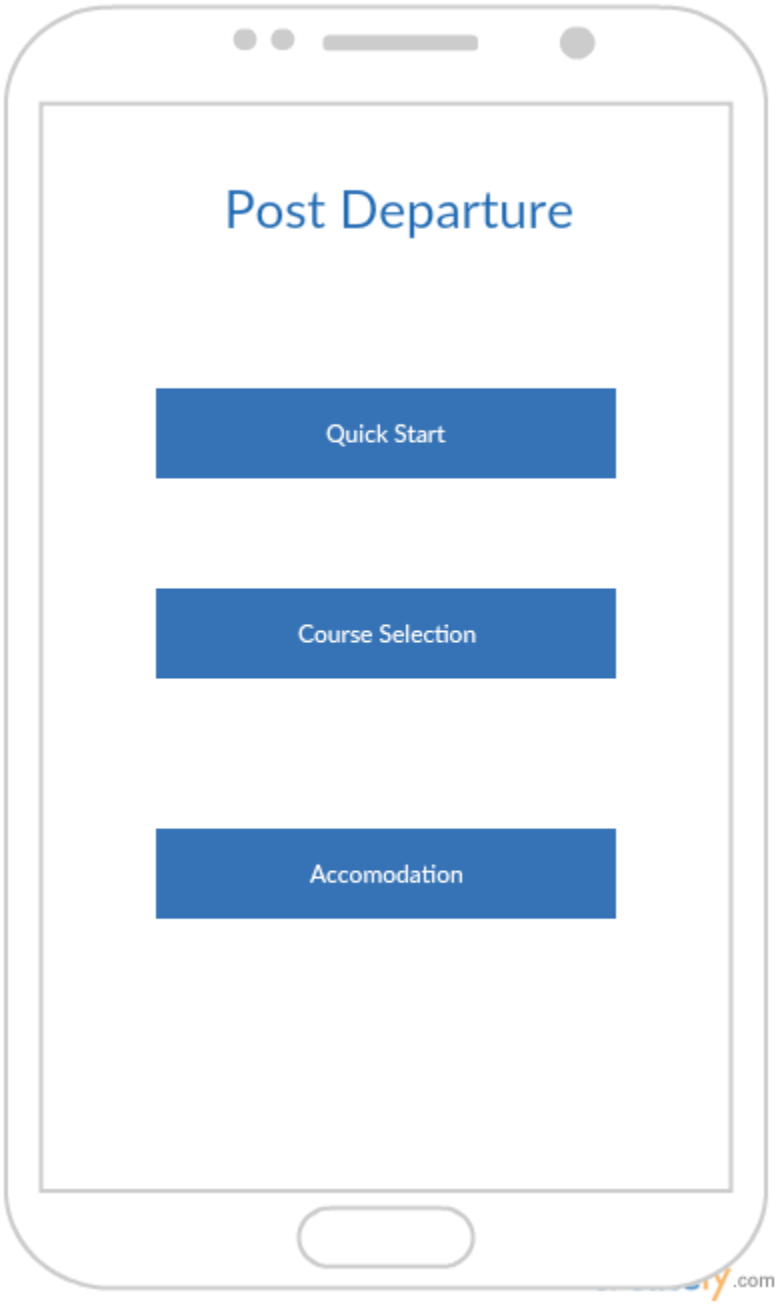
❖ Shopping Activity

❖ Fee Activity

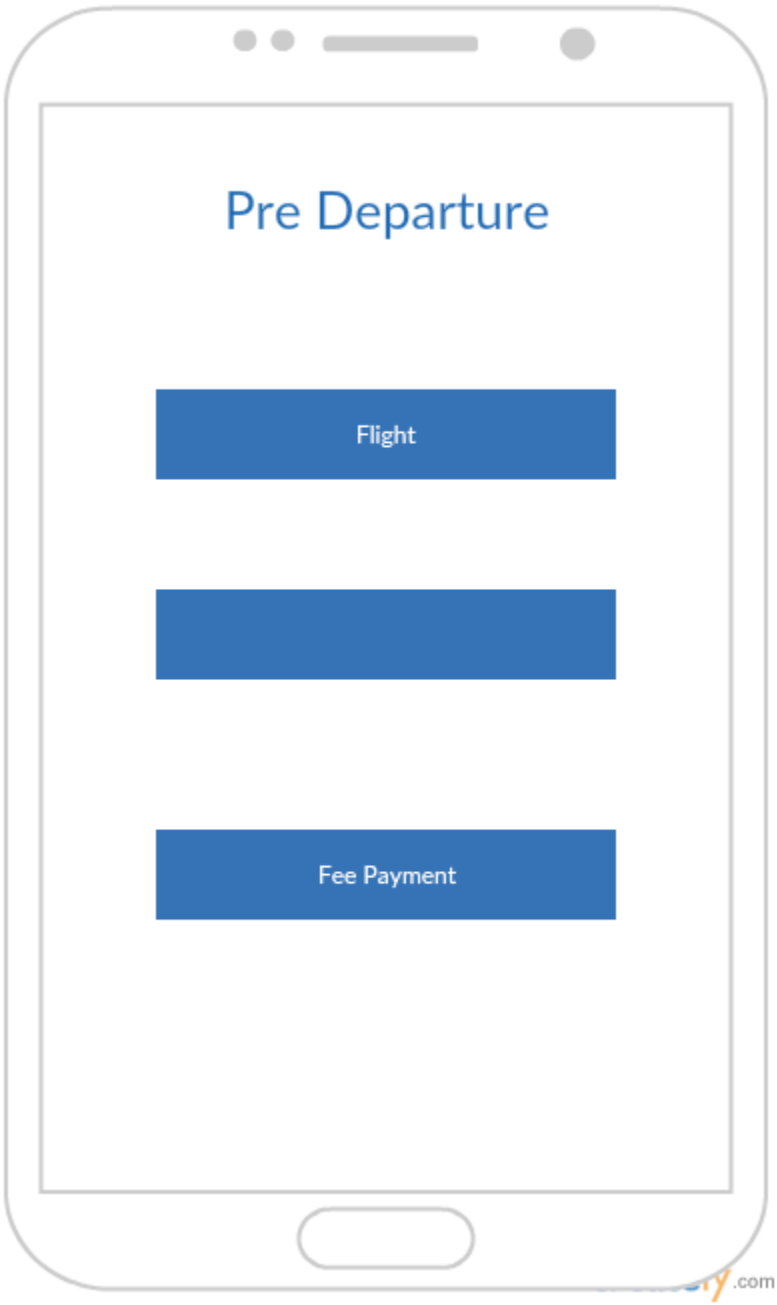
❖ Accommodation Activity

❖ Quick Start Activity

❖ Pre Departure Activity



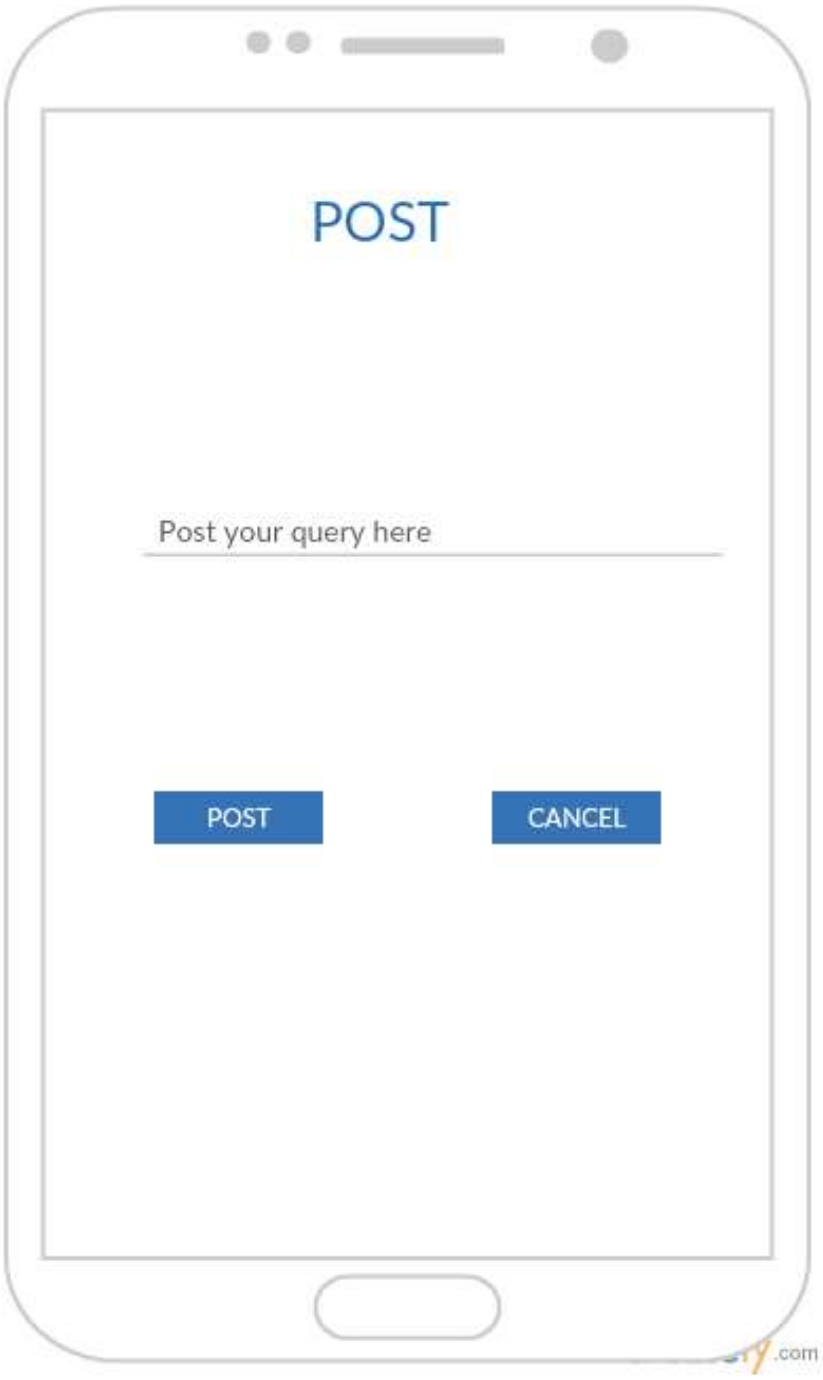
❖ Post Departure Activity



❖ Course selection

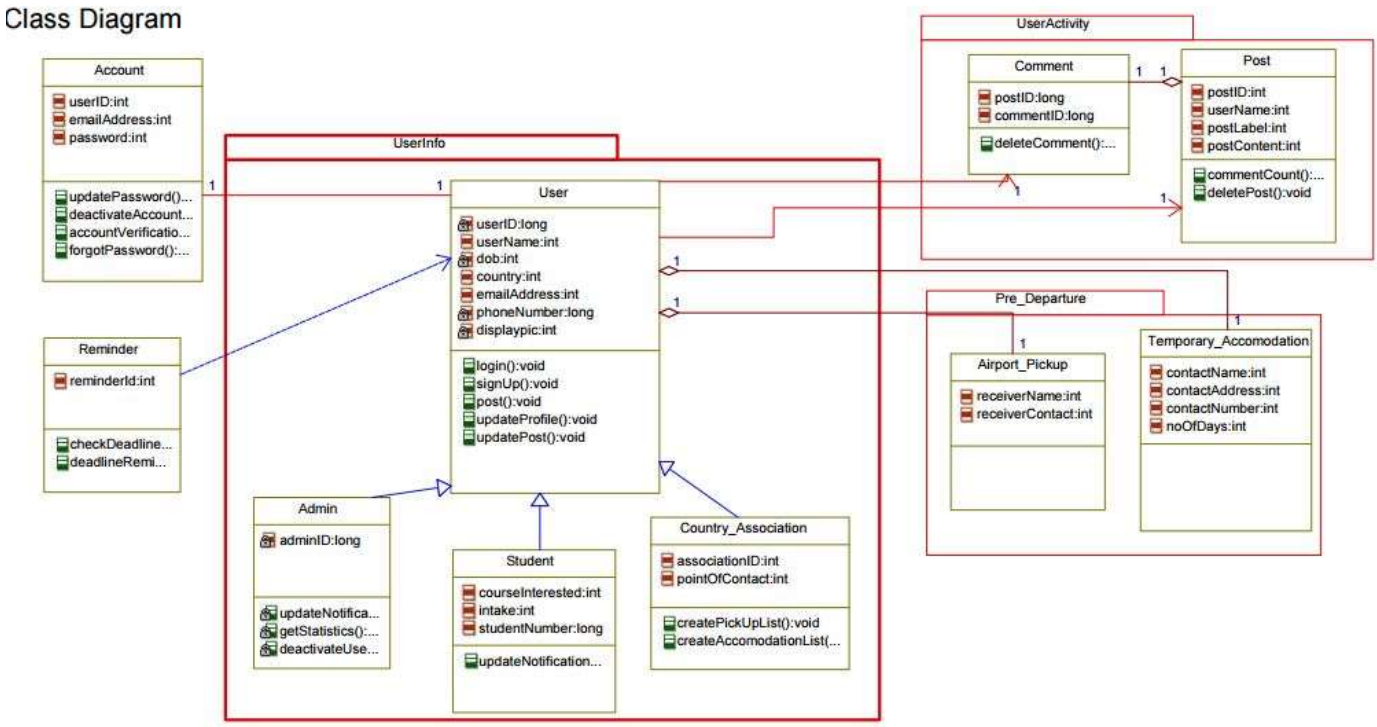
❖ View Post Activity

❖ Post Query Activity



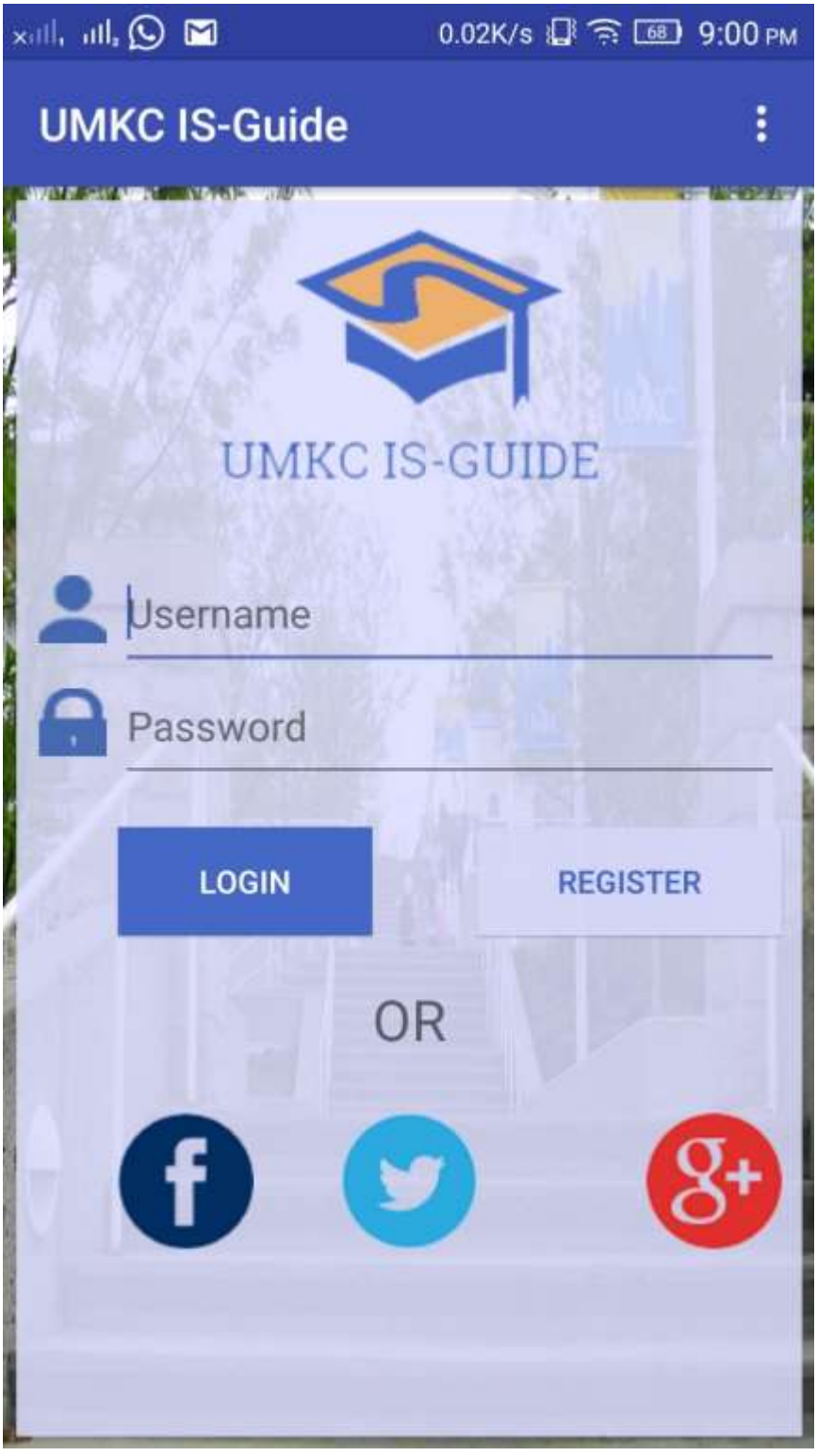
❖ Comment on Post Activity

4.2 Class Diagram

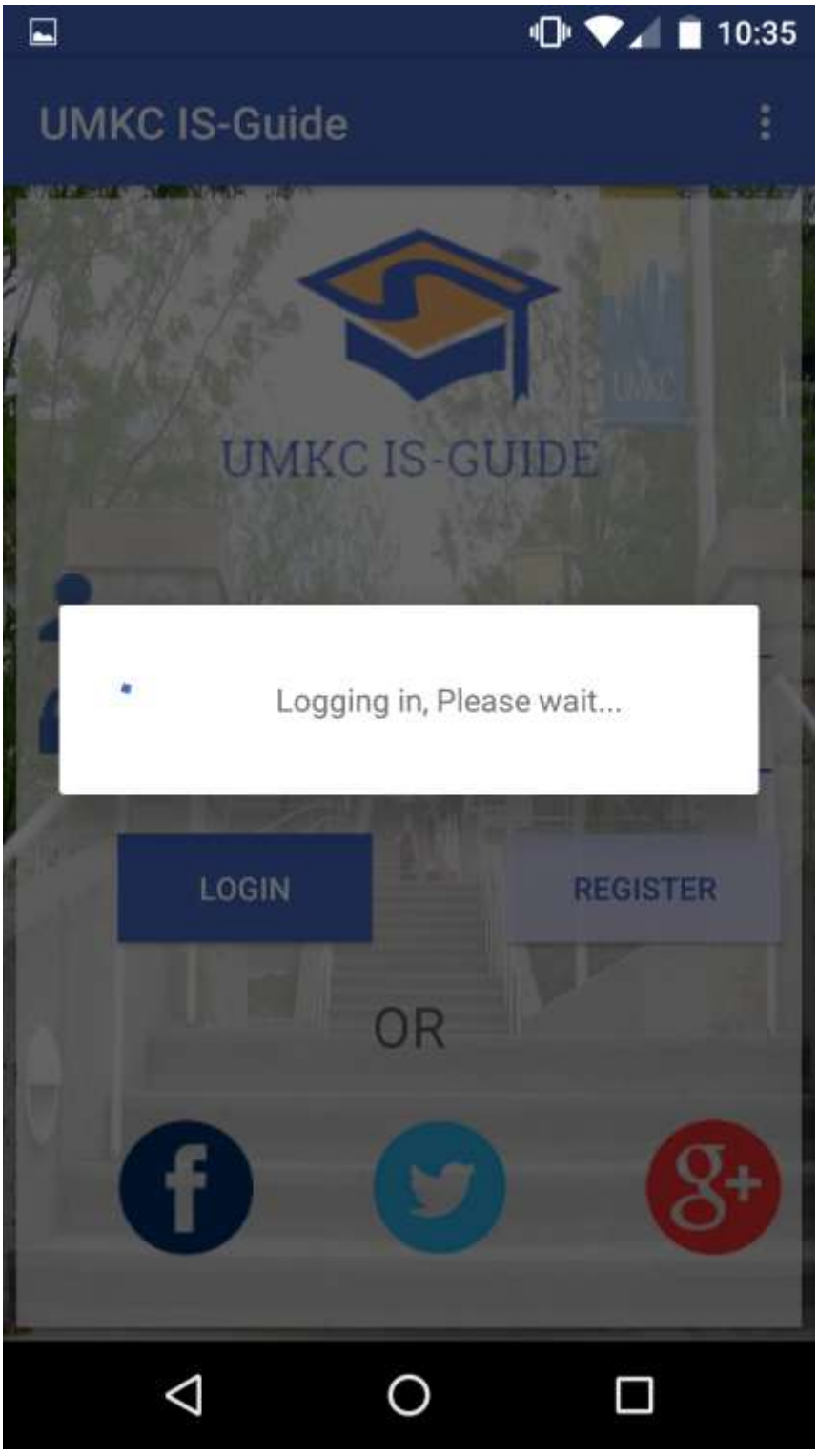


6. Implementation and Deployment

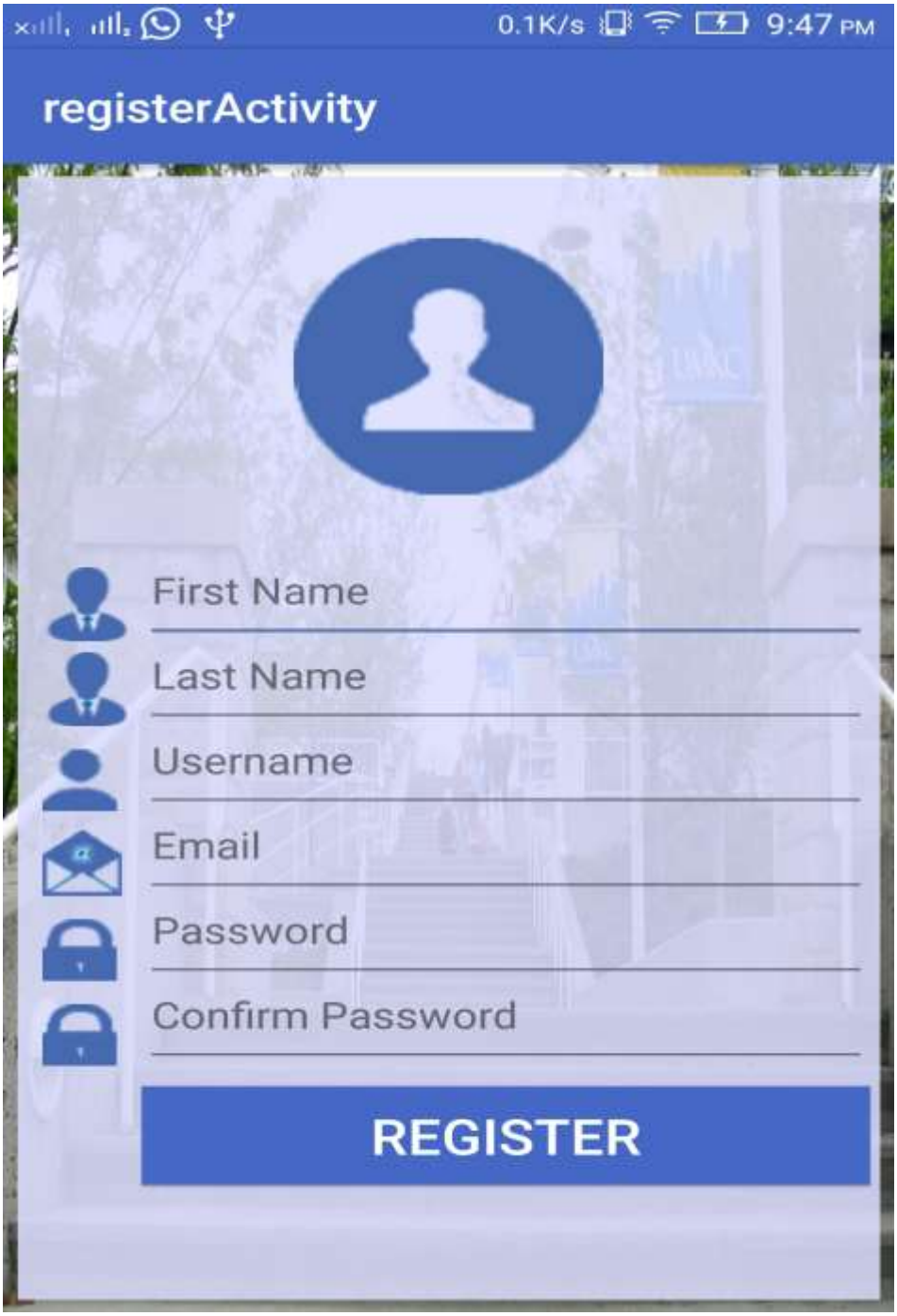
❖ Login Page Using Android



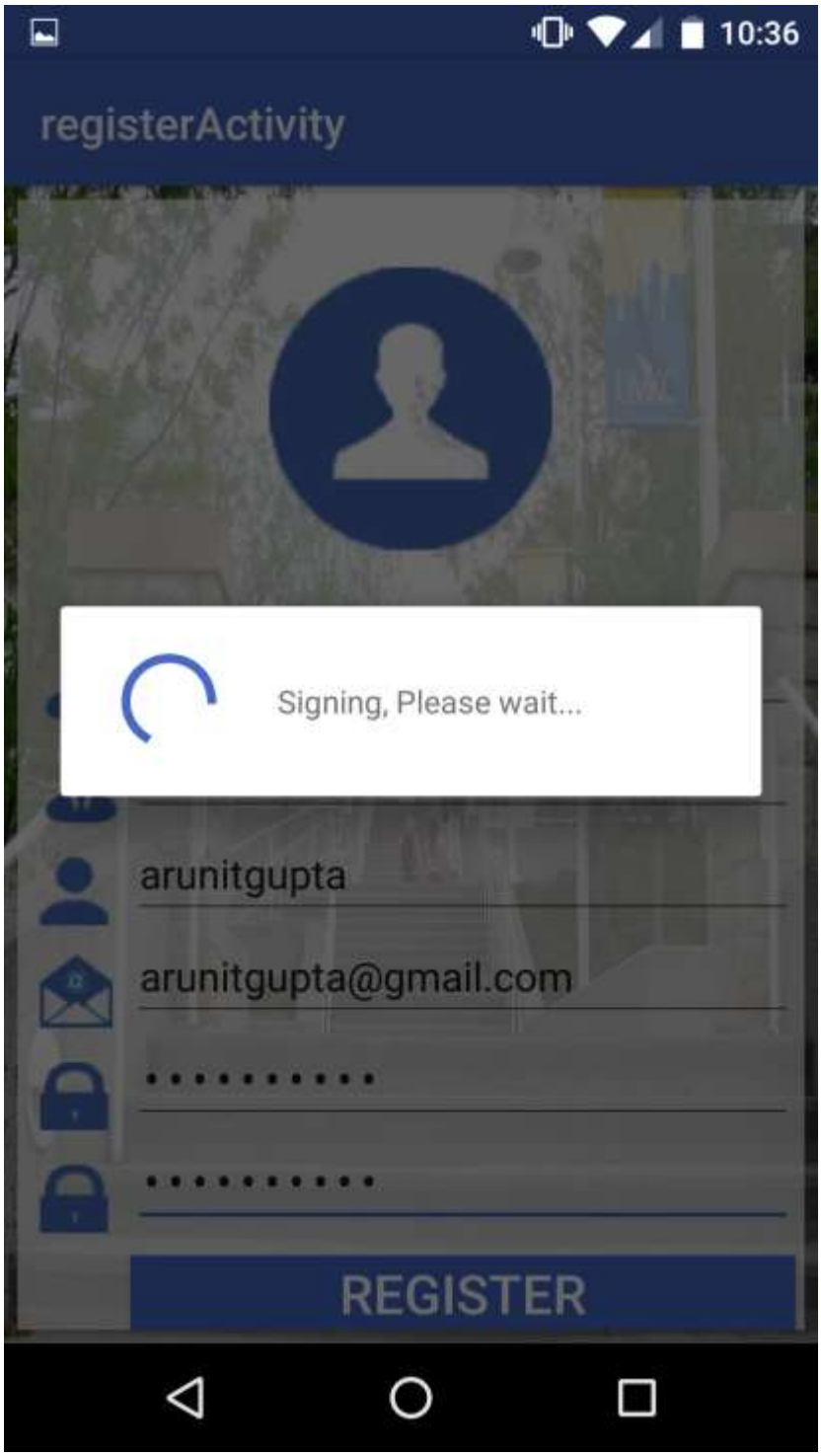
❖ Login using MongoDB Connection



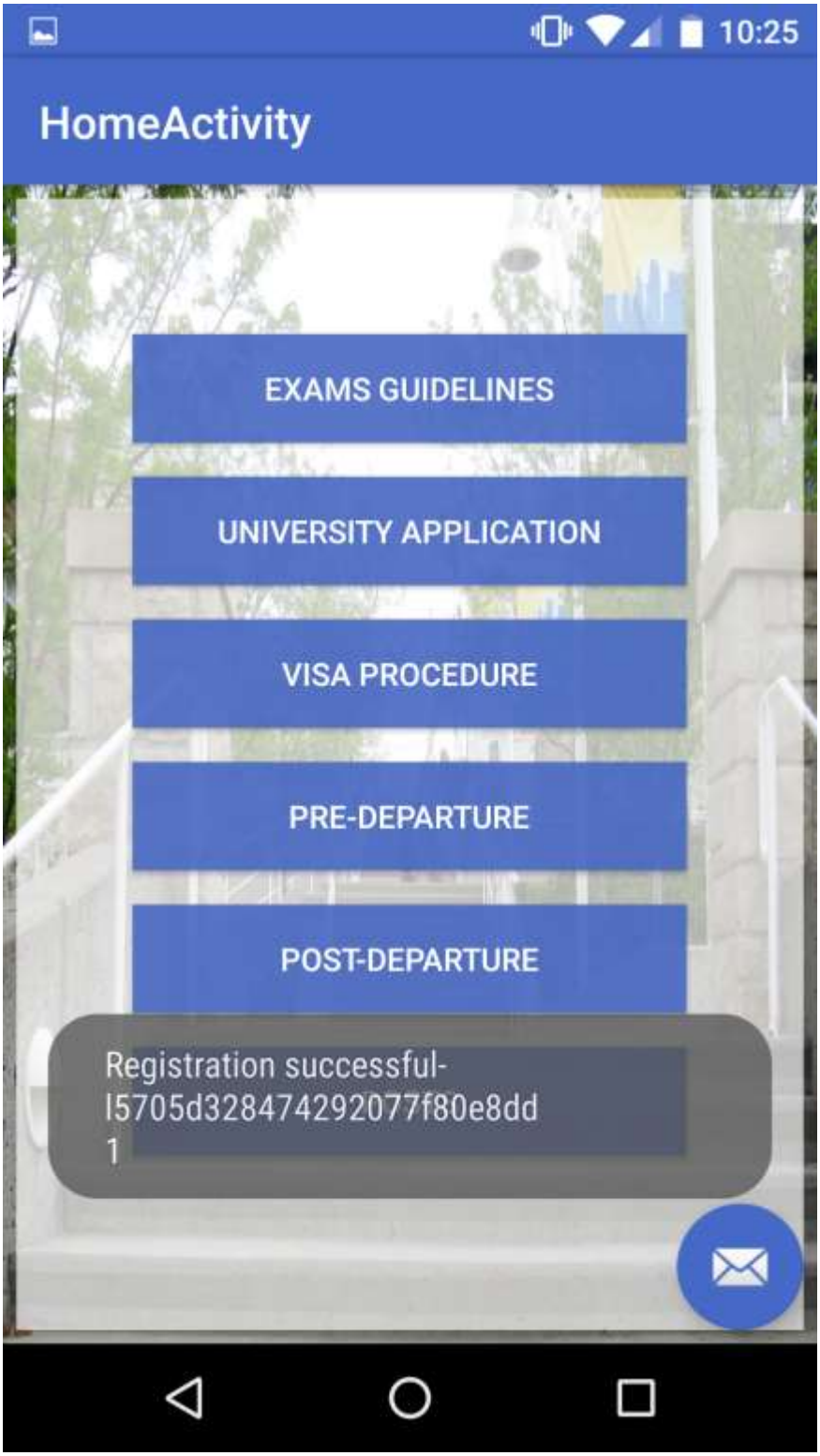
❖ Registration using Android



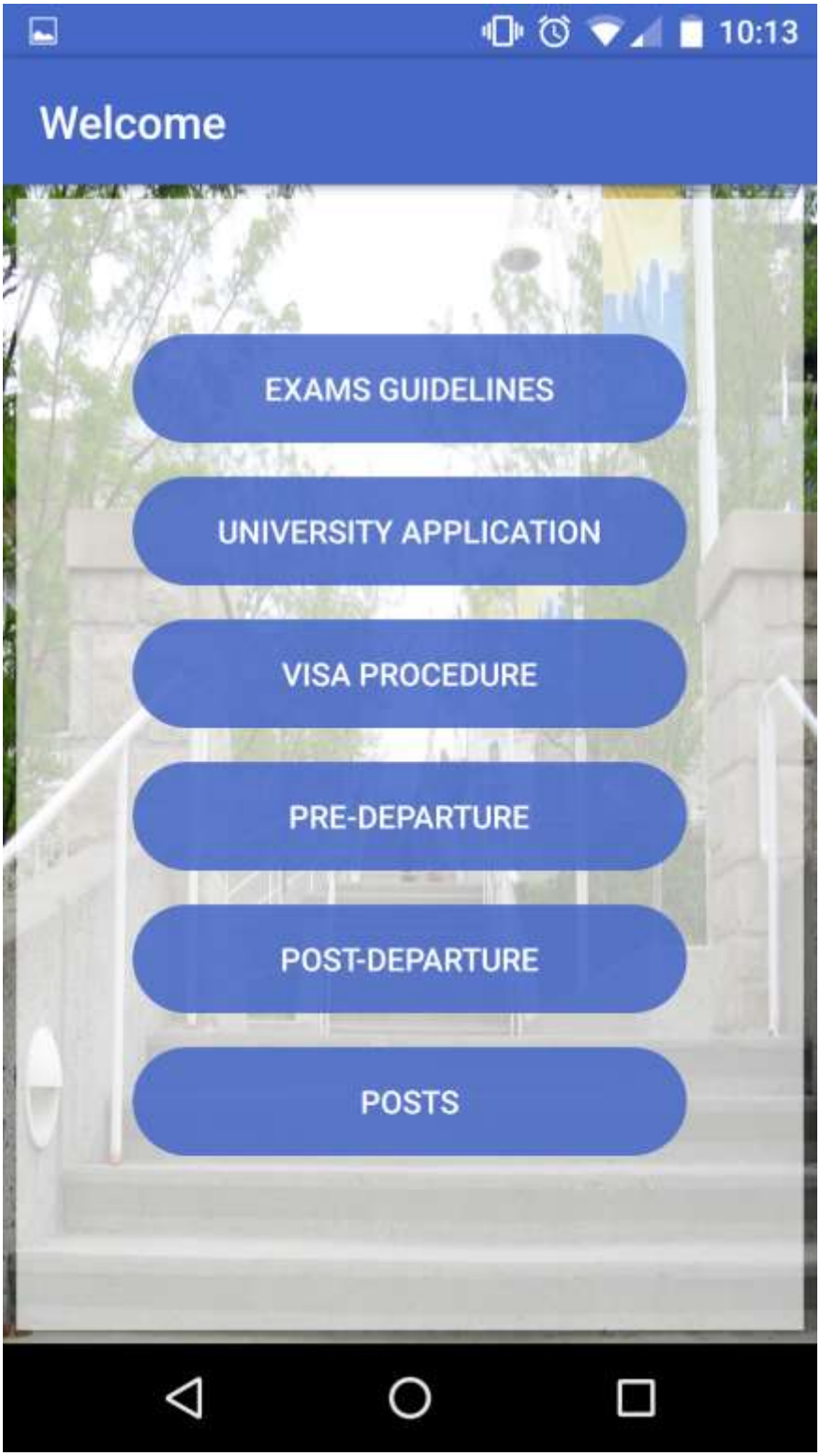
- Registration Activity using MongoDB Connection



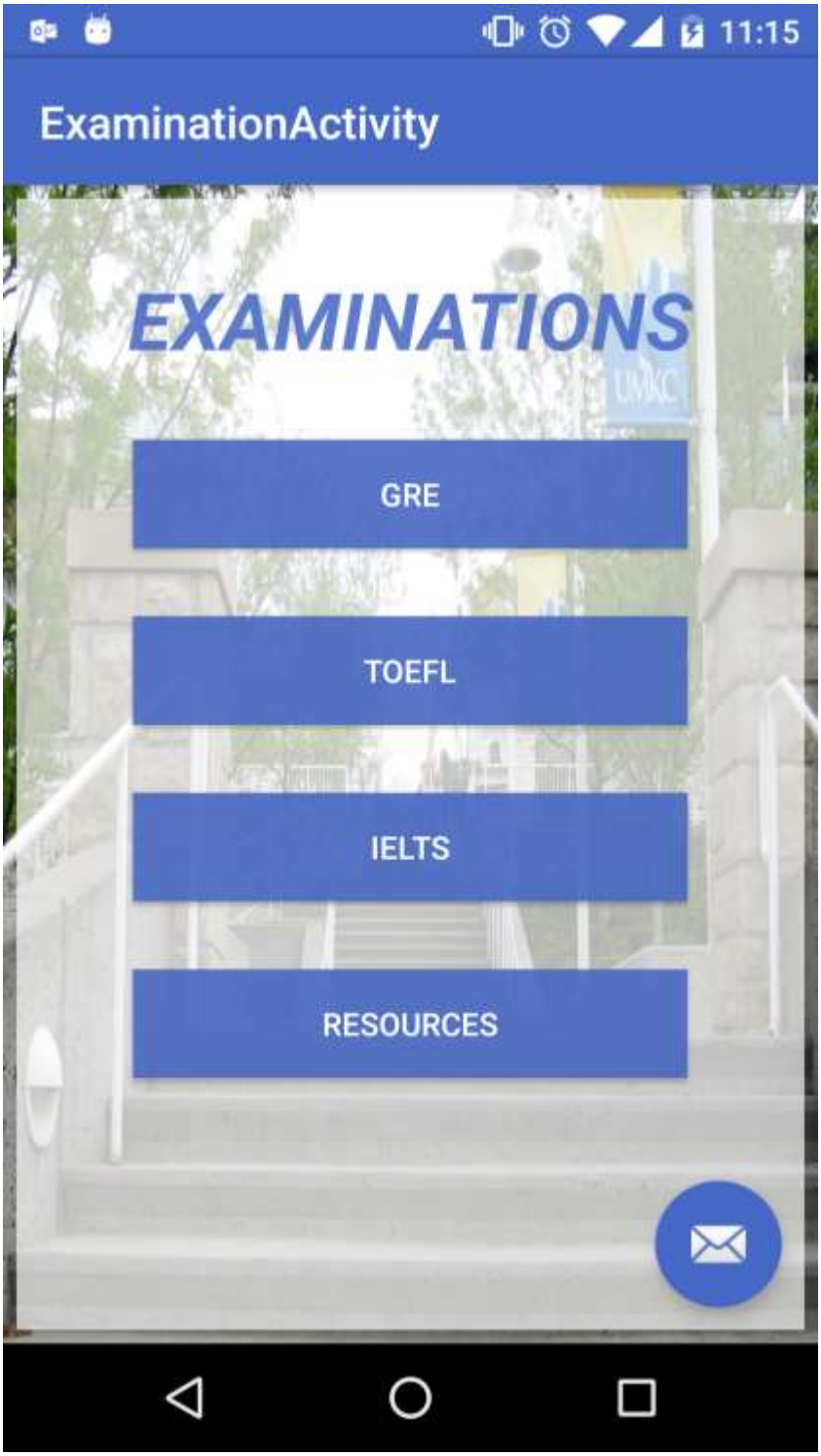
- Registration ID Generated after successful registration



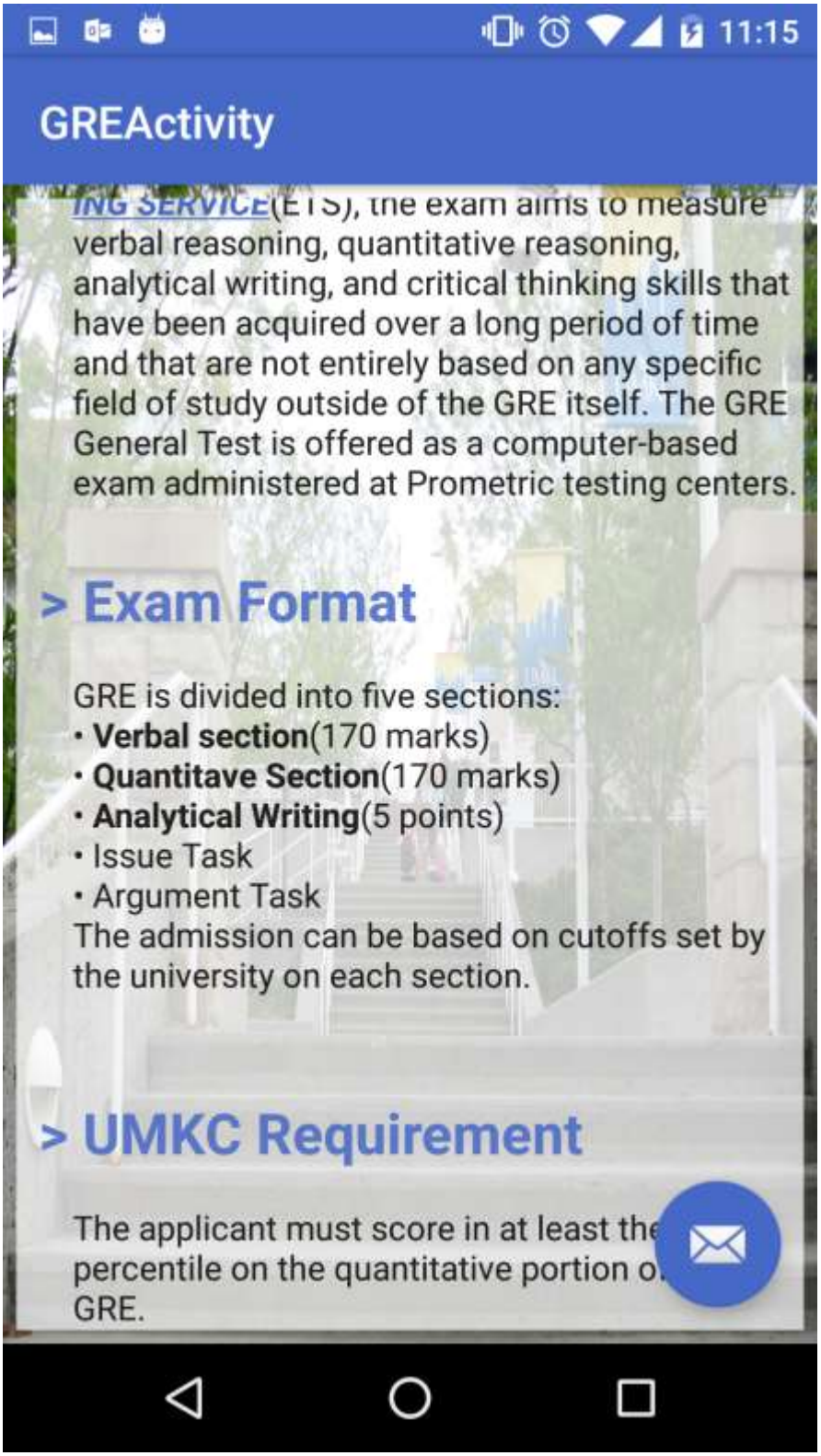
- Home Activity



- Examination Activity



- GRE Activity



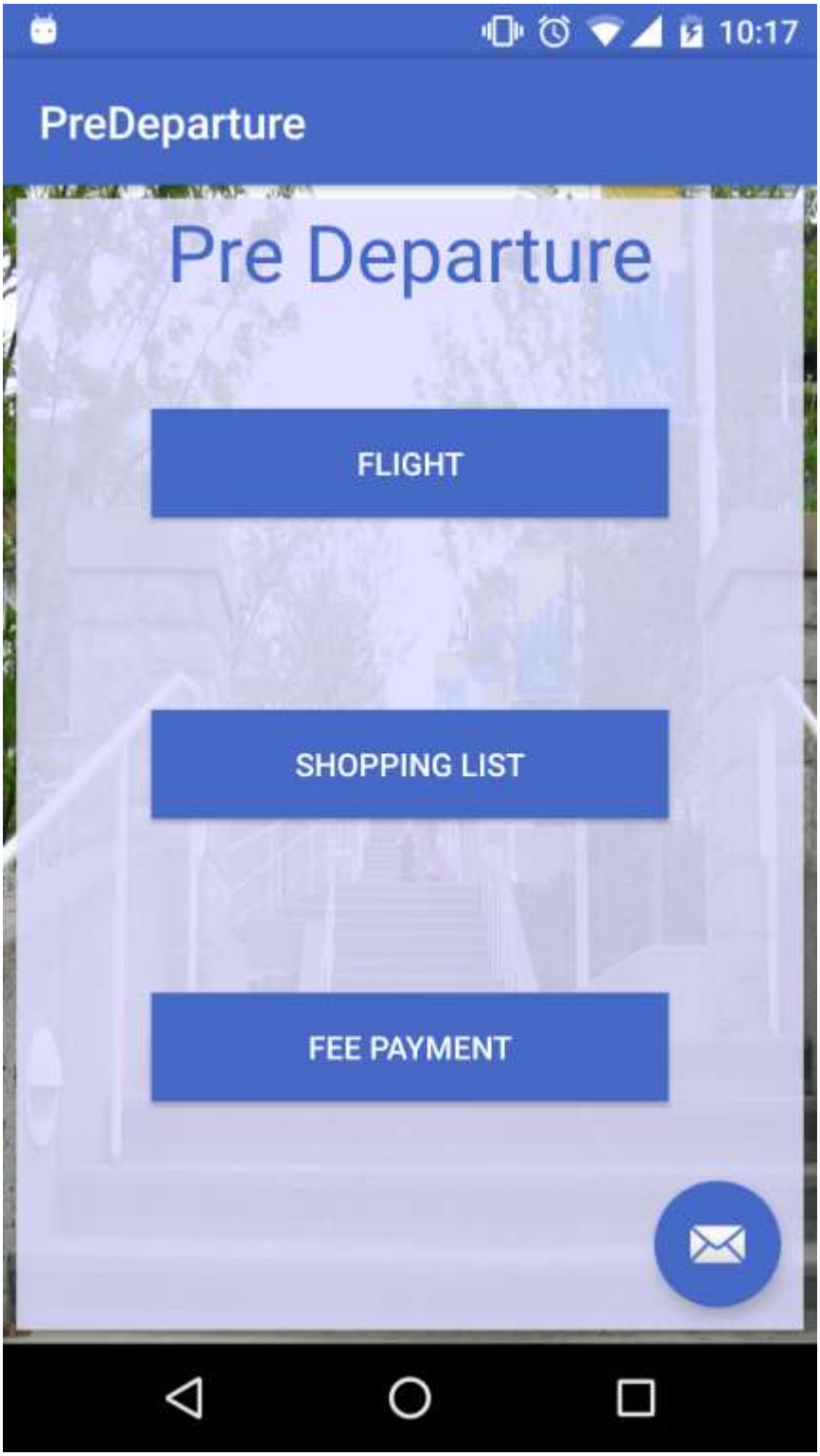
- IELTS Activity

- TOEFL Activity


11:15
TOEFLActivity
TOEFL
> Description
Test Of English as a Foreign Language
It is a standardized test to measure the English language ability of non-native speakers wishing to enroll in American universities. The test is accepted by many English-speaking academic and professional institutions. TOEFL is one of the two major English-language tests in the world, the other being the IELTS.
Official Website
> Exam Format
TOEFL is divided into four sections:
• Reading: It contains 3–5 passages, each containing 12–14 questions.
• Listening: It contains 6–9 passages, each containing 5–6 questions.
• Speaking: It contains 6 tasks.
• Writing: It contains 2 tasks.
The admission can be based on cutoffs

- VISA Activity

- Pre Departure Activity



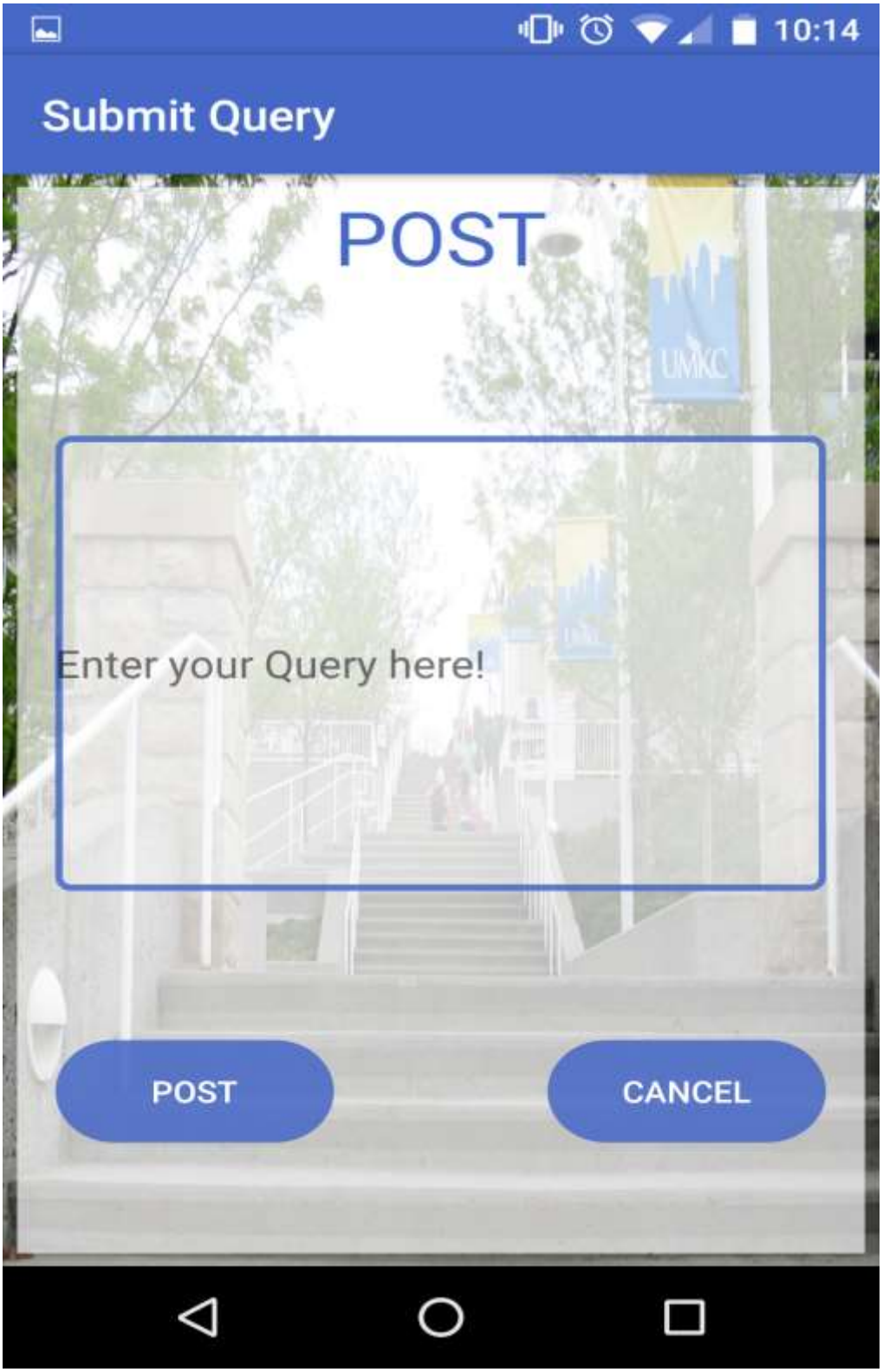
- Flight Activity

- Shopping Activity

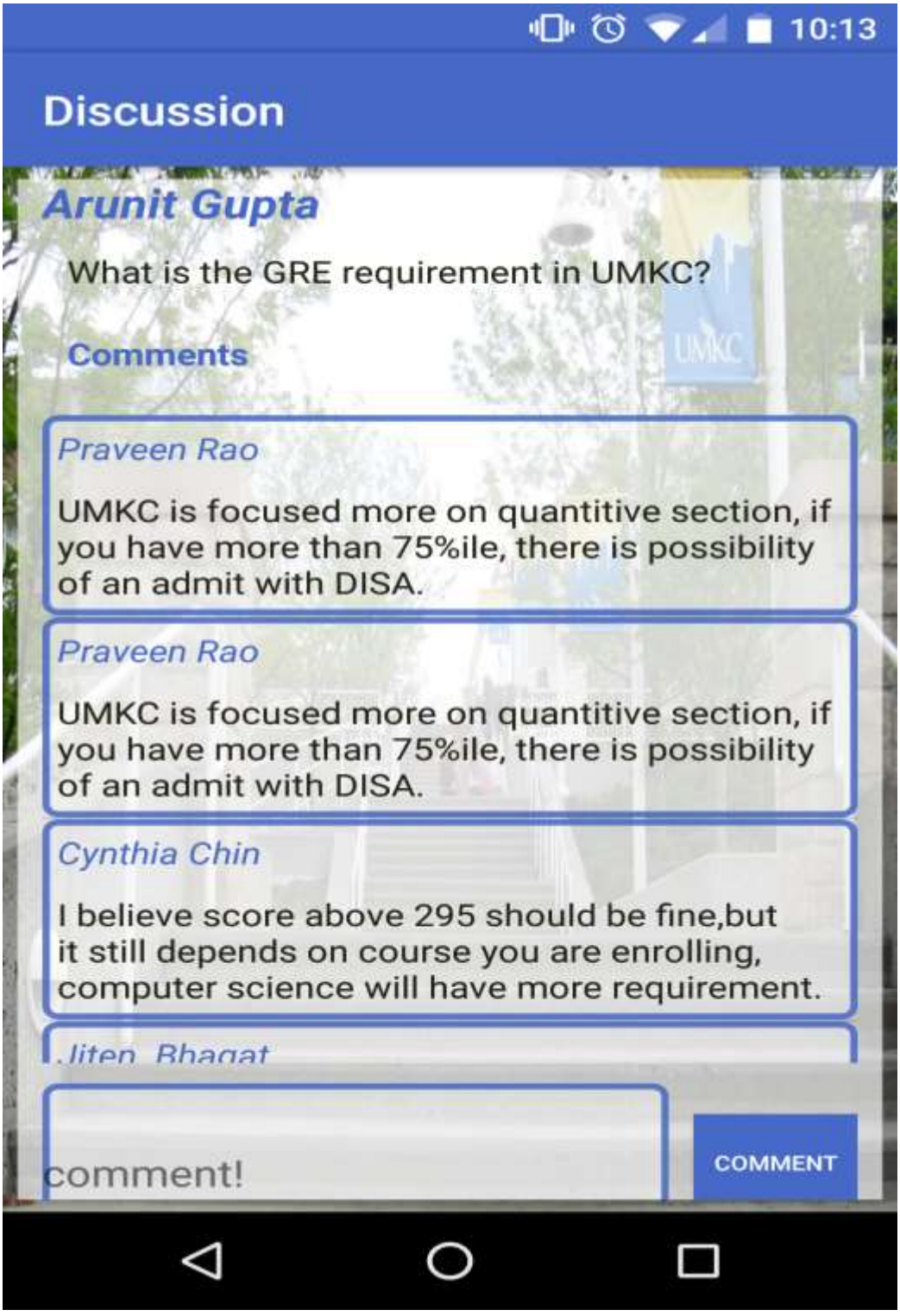
- Fee Activity

- User Posted Query

- Posting Query Activity



- Comments on Post

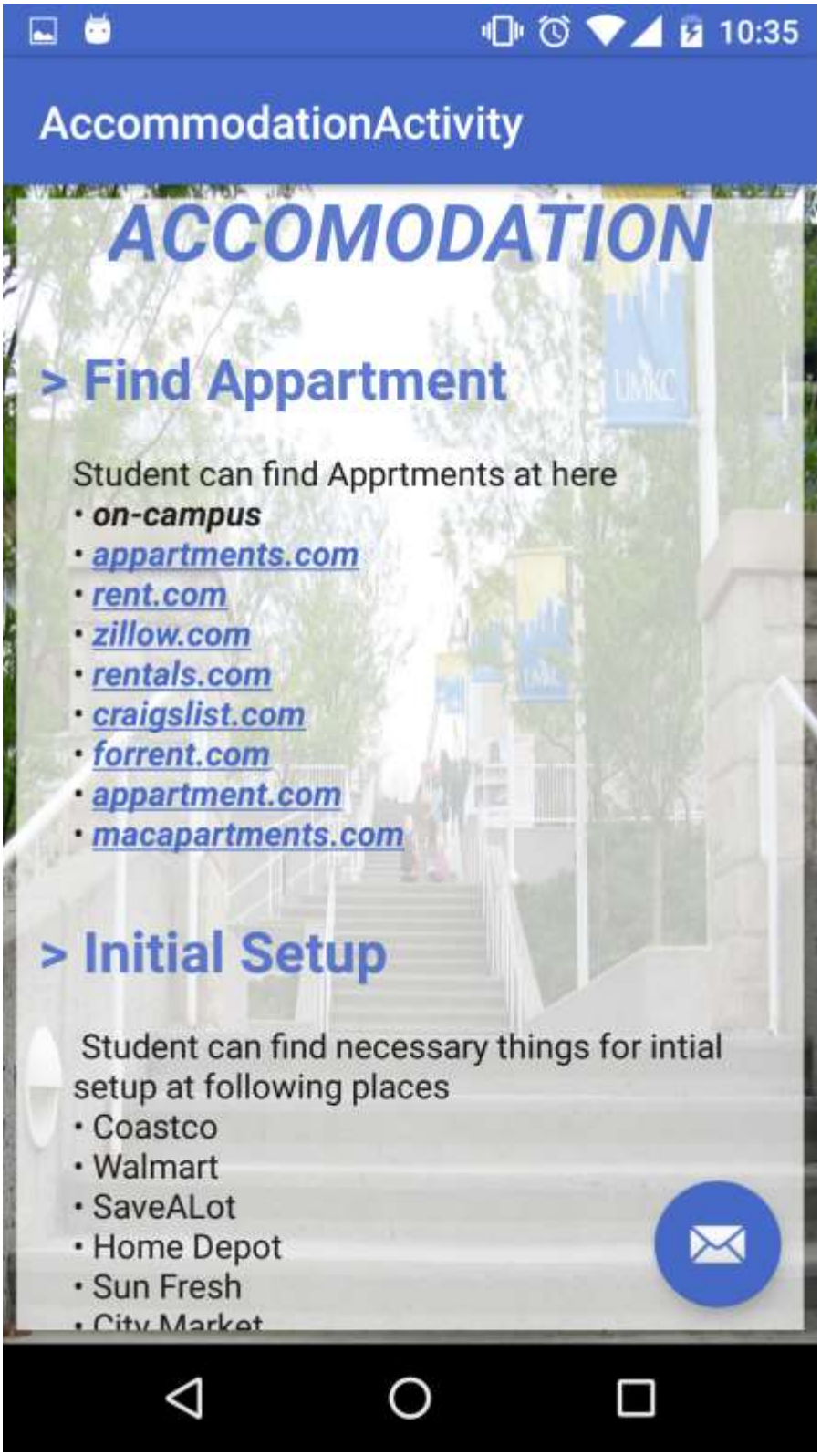


- Post Departure

- Quick Start Activity

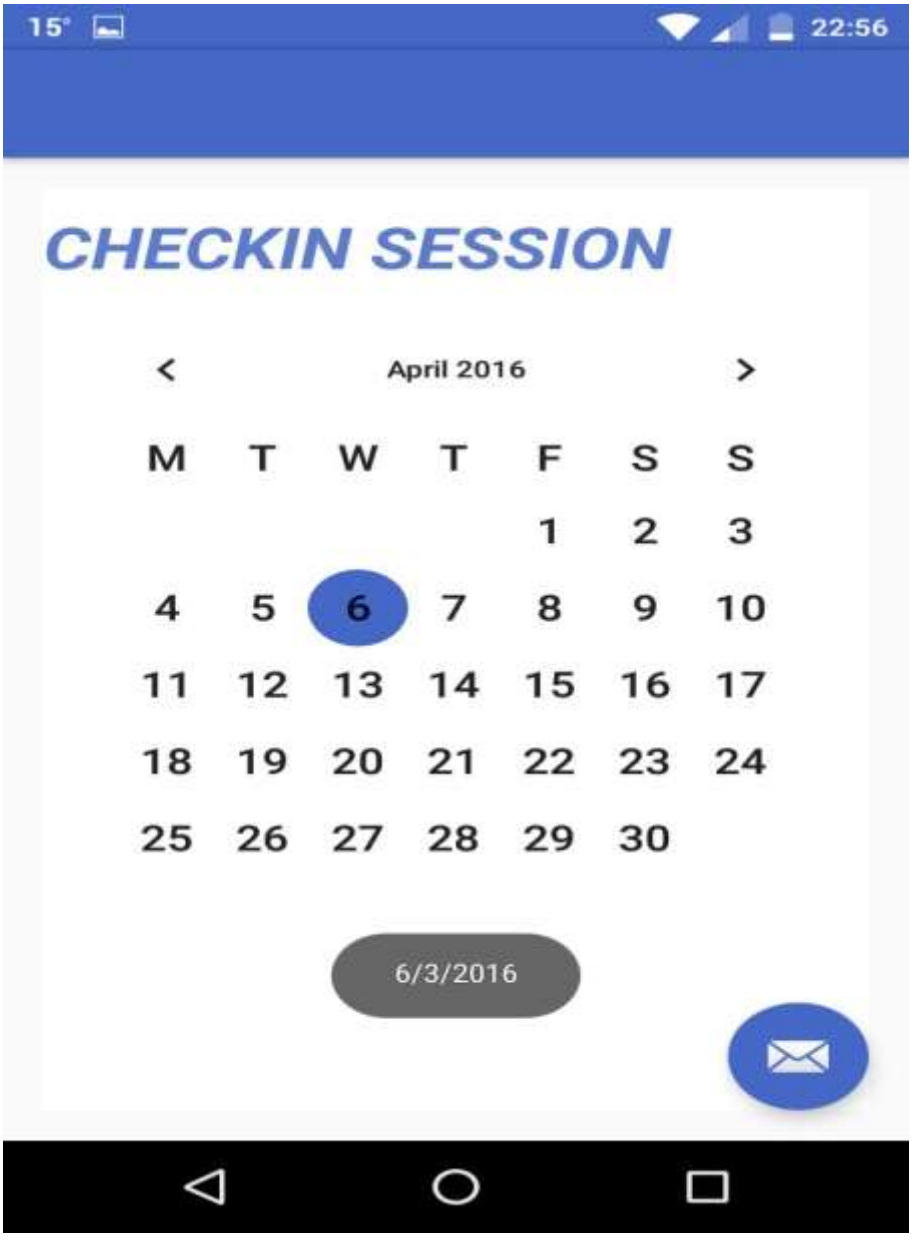
- Course Selection Activity

- Accommodation Activity

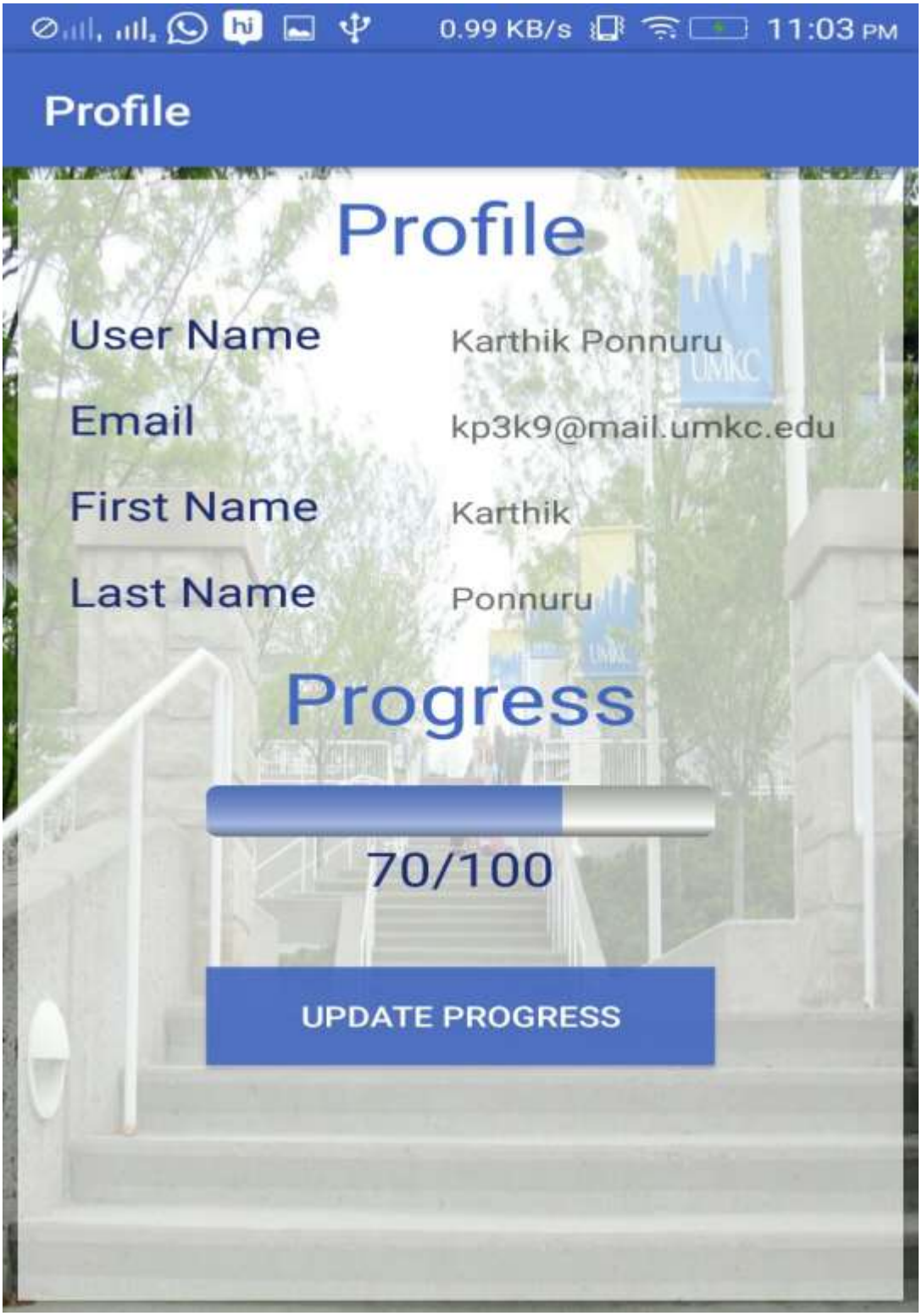


- Resources Activity

- Quick Start Activity



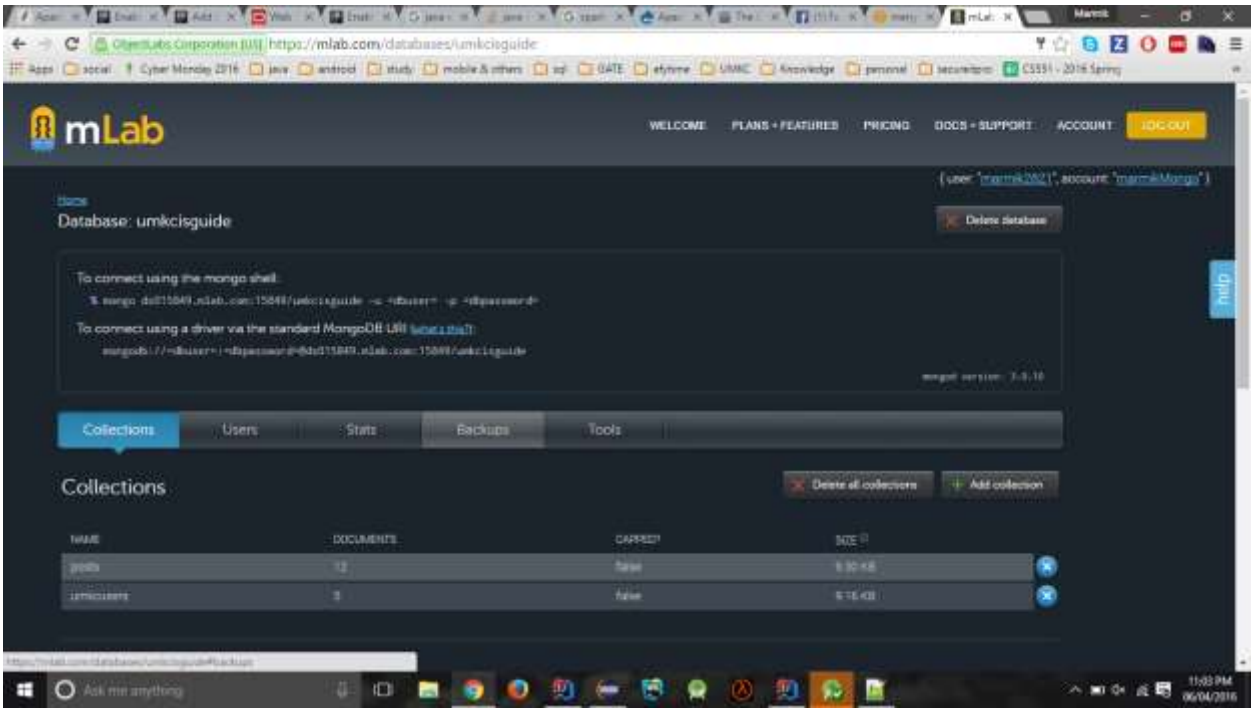
- Profile Activity



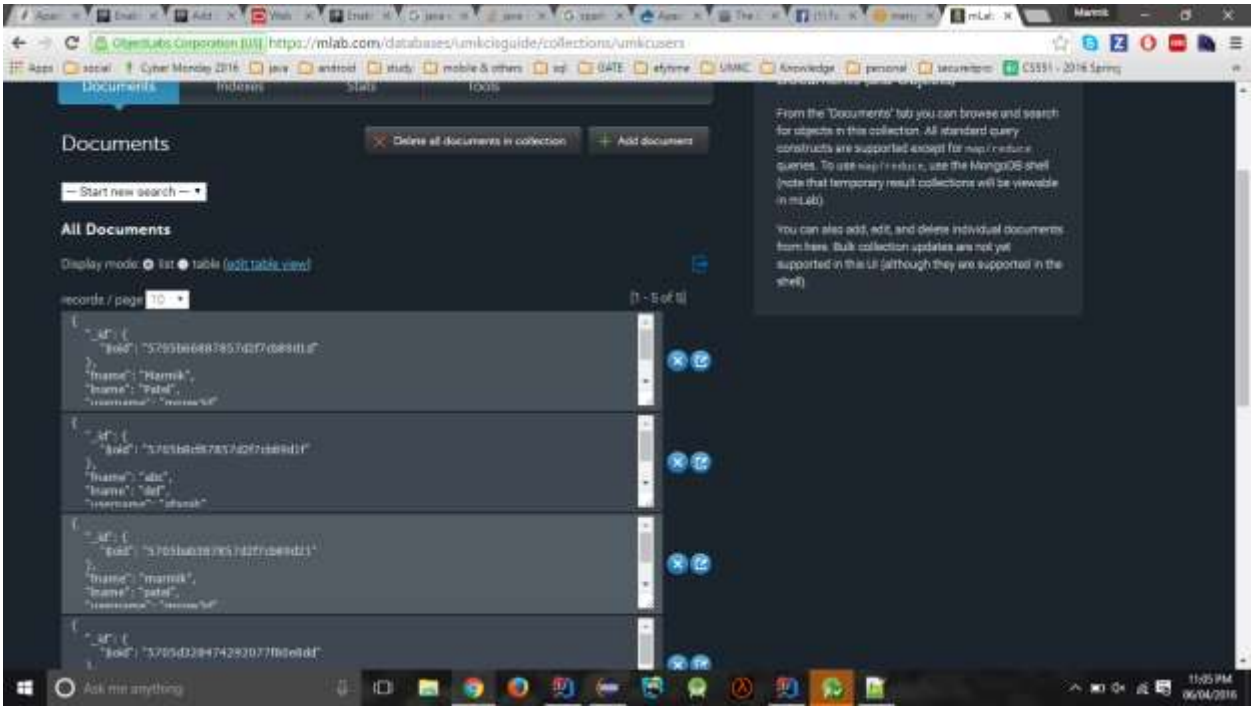
- To-Do Activity

Data Base Screenshots:

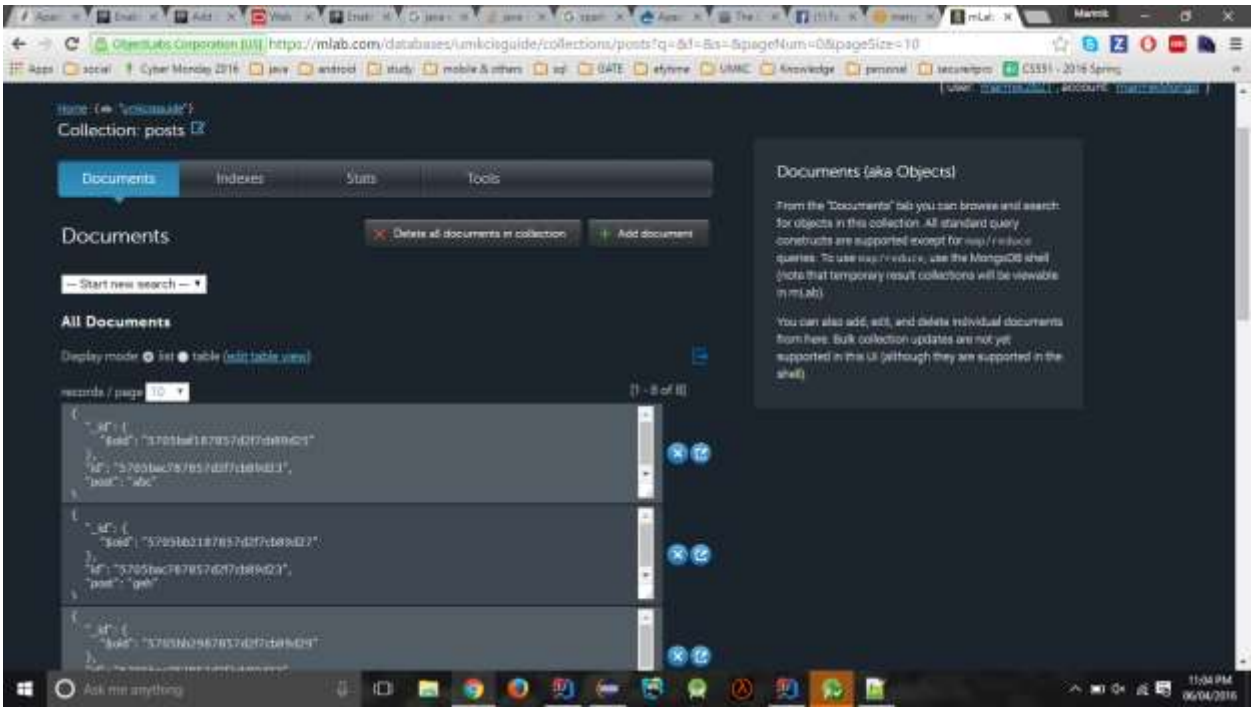
- Table created in MongoDB



- Registration Data pushed in table

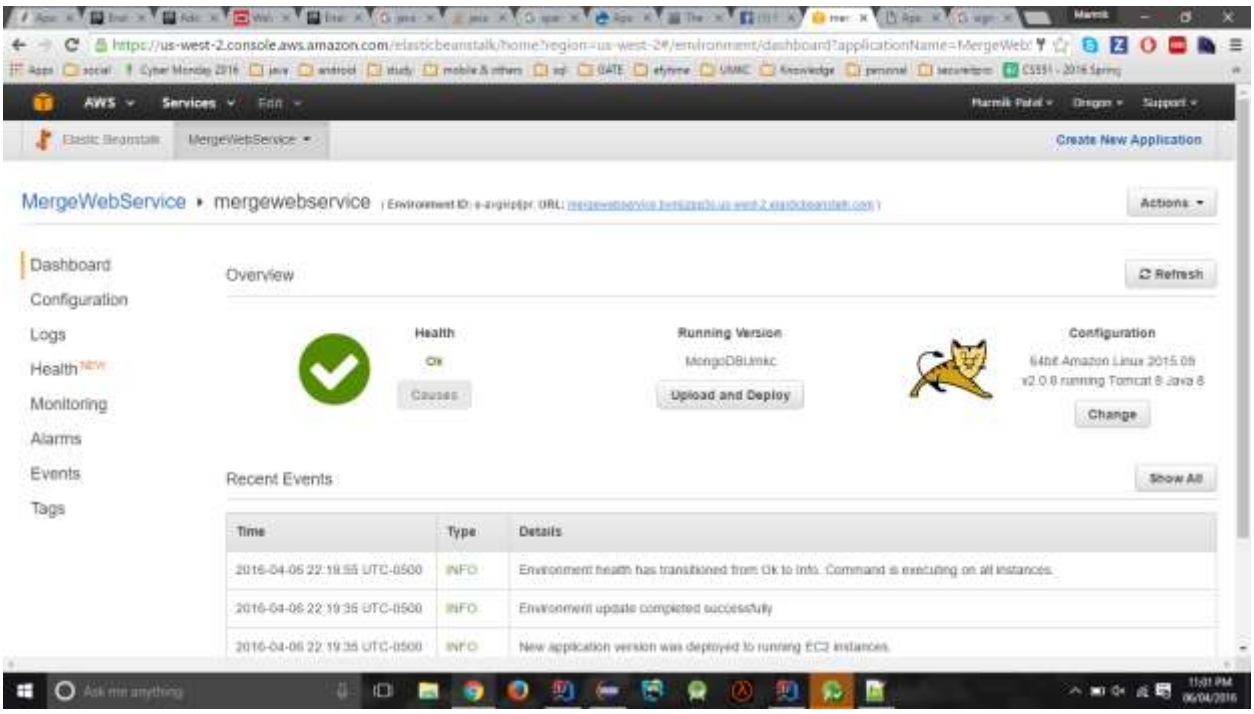


- Post queries in database



Amazon Web Service Deployment Screenshot:

Project was successfully deployed in Amazon Web service



Testing

- Unit Testing

UNIT TEST CASES

S.no	Test case Title	Description	Expected Outcome	Result
1	Successful User Verification	The user should login with his/her password and id.	Login should be successful	Pass
2	Unsuccessful User Verification due to wrong password	Login to the system with a wrong password.	Login should fail with an error 'Invalid Password'	Pass
3	Successful User login	The user login to the system with his/her password and id.	Login should successful and user should enter into the system.	Pass
4	New user should register	The admin accepts the registration of the new user.	User should successfully register and able to go to login.	Pass
5	Invalid email	Invalid emails are not accepted.	User should provide a valid email address.	Pass

7. Project Management

Implementation status report

Technology Used: Android SDK, HTML, CSS, JS, Angular JS, Mongo DB, J2EE.

Work Completed

- Design and Architecture of the Application
- Login and Registration using Android
- Home Screen, Pre Departure and Post Departure, other various activities completed in second phase.
- All Screens of the project were completed with Unit Testing on it in third phase.
- Database connection has been established with MongoDB (No Sql DB) for login, registration and Post functionality.

- Contribution:

❖ Gupta, Arunit

Worked on OAuth for Gmail Authentication, Comment posting for user queries, GUI Improvement and final report.

❖ Patel, Marmikkumar Navinchandra

Creating Web Services using Mongo Driver for back end, list view implementation for Query and Discussion Activity, GUI improvement.

- Ponnuru, Karthik

  Worked on Profile Activity and to do list activity for a particular user.

- Manne, Chaitanya Sai

  Worked on Facebook OAuth and GUI for Specific screens.

8. Future Work

- Improvement in Query Section by dividing queries based on categories.
- Adding Notifications for queries using google cloud messaging.
- Setting timelines and reminders for users.
- Deploying for UMKC and further implementation for all universities across United States.

9. Bibliography

- http://webthemez.com/b-school-free-educational-html5-website-template/
- http://www.w3schools.com/charsets/ref_utf_dingbats.asp
- http://codepen.io/anon/pen/obRQZY/
- www.umkc.edu