



Project Third Increment

Fall 2016

TEAM - 2

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1. Introduction

One Stop for CS

The Advancement in the feather of Computer Science had improved immensely in the last decade, as its seeds sowed with 1's and 0's and now engineers with integration of 1's and 0's made many software applications to resolve complex things easily. This project is an attempt to make all the CS stuff available to students at a single point. Our main aim is to develop an application where a user can access all types of resources like presentations, videos, research paper and online courses for any course under computer science.

2. Project Goal and Objectives (revised)

2.1 Overall goal:

Main goal of this application is to provide all the available sources like presentations, videos, research papers and online courses for users to learn any technology in the field of computer science.

2.2 Specific objectives (problem statement)

2.2.1. To create a unique platform where the users can get all the available resources related to any course in the field of computer science.

2.2.2. By searching for a specific course, this application will retrieve available resources in the form of videos, presentations, research papers and online courses.

2.2.3. Notifying the users about current trends in the field of computer science.

2.3 Specific features

2.3.1 Search for presentations: This feature enables the user to search for top presentations related to a particular course.

2.3.2 Search for videos: This feature enables the user to search for top videos related to a particular course.

2.3.3 Search for research papers: This feature enables the user to search for research papers related to a particular course.

2.3.4 Search for online courses: This feature enables the user to search for available online courses related to a particular course.

2.3.5 Latest technologies: User can see the latest trending technologies in the field of computer science.

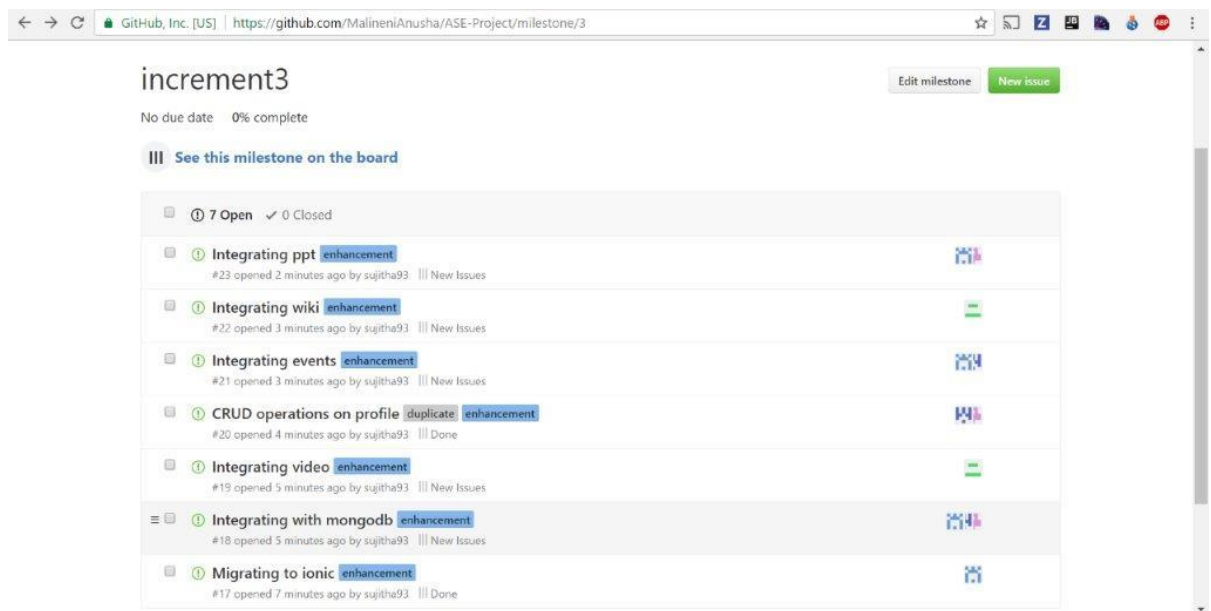
2.3.6 Accepts Suggestions: User can suggest new resources in the form of videos, presentations, research papers and online courses for any particular course.

2.3.7 Bookmarking facility: A Registered User can bookmark a particular video, presentation, research paper or an online course website. By bookmarking resources, user can find them under bookmarks section.

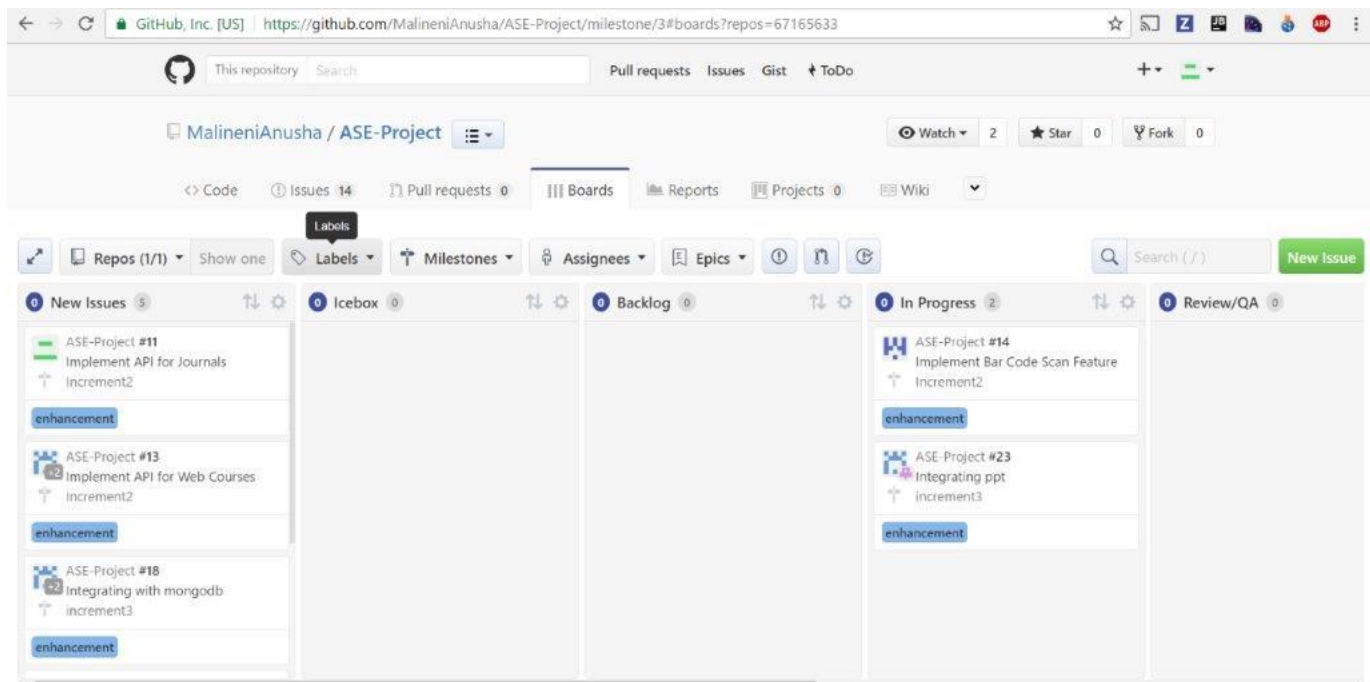
2.4 Significance The application provides the wide range of resources like PPT's, videos, research papers and online courses at a single point.

3. Project Plan

1. Zen- Hub Screenshot:



2. Project Timeline, Members, Task Responsibility



4. Third Increment Report

4.1 Existing Services/REST API

4.1.1 API's and Plugin's Used

➤ **Facebook Login API:**

We have integrated Facebook login API to our application.

➤ **MongoDb:**

We have integrated MongoDB for registration and login of users of the application.

➤ **SlideShare PPT API:**

We have used SlideShare API to retrieve the PPT slides for the given keyword in the search bar.

➤ **Eventful API for Events:**

We have used Eventful API to retrieve the events that are near to user's location.

➤ **YouTube API:**

Implemented YouTube API to retrieve the videos related to search tags.

➤ **Wikipedia API:**

Implemented Wiki API to retrieve the data related to tags given in search bar.

API's to be used

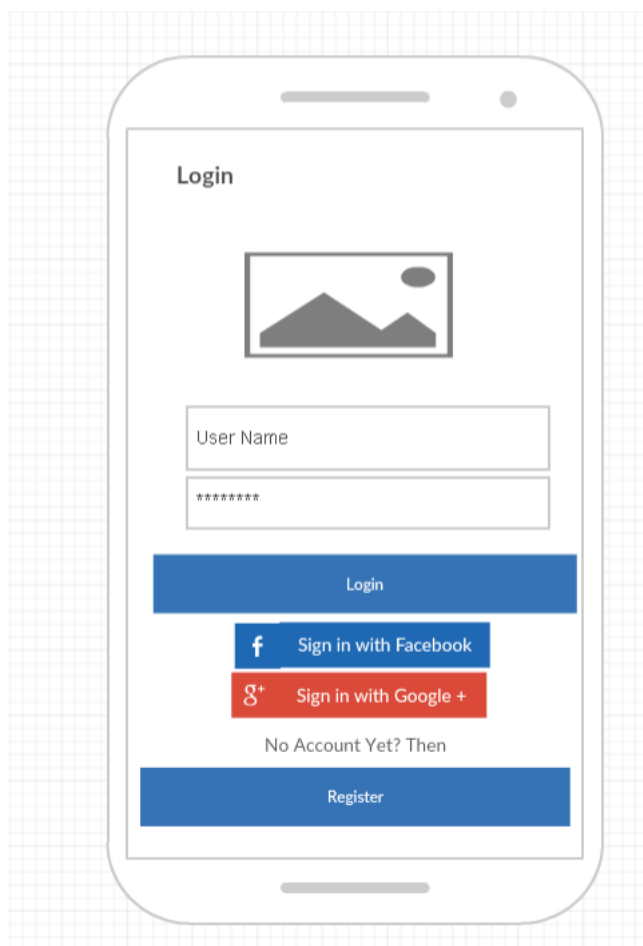
We will be using the below mentioned API's in the next increments to implement the dynamic search for technologies.

- **Google Knowledge Graph API**
- **Microsoft Cognitive Services API**
- **CS 50 API**

4.2 Detail Design of Features:

4.2.1. Wireframes

Login Page



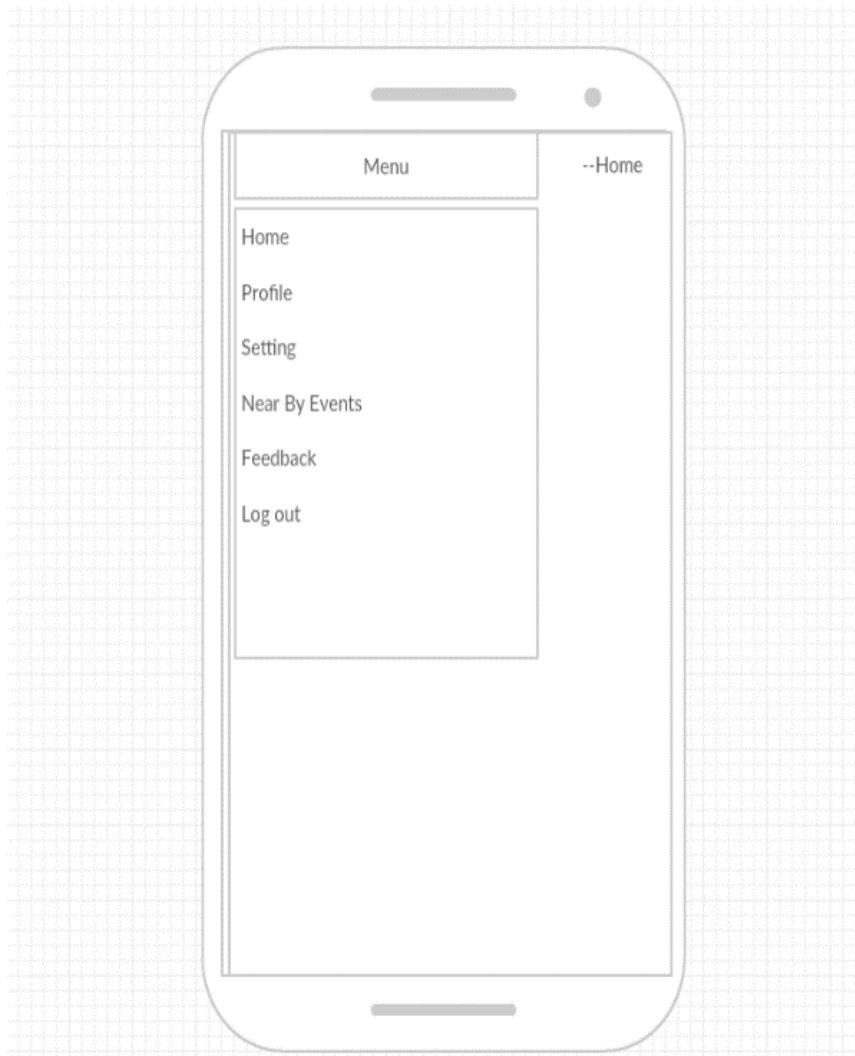
Registration Page

Register



Register

Home Page



User Menu

Profile

First Name

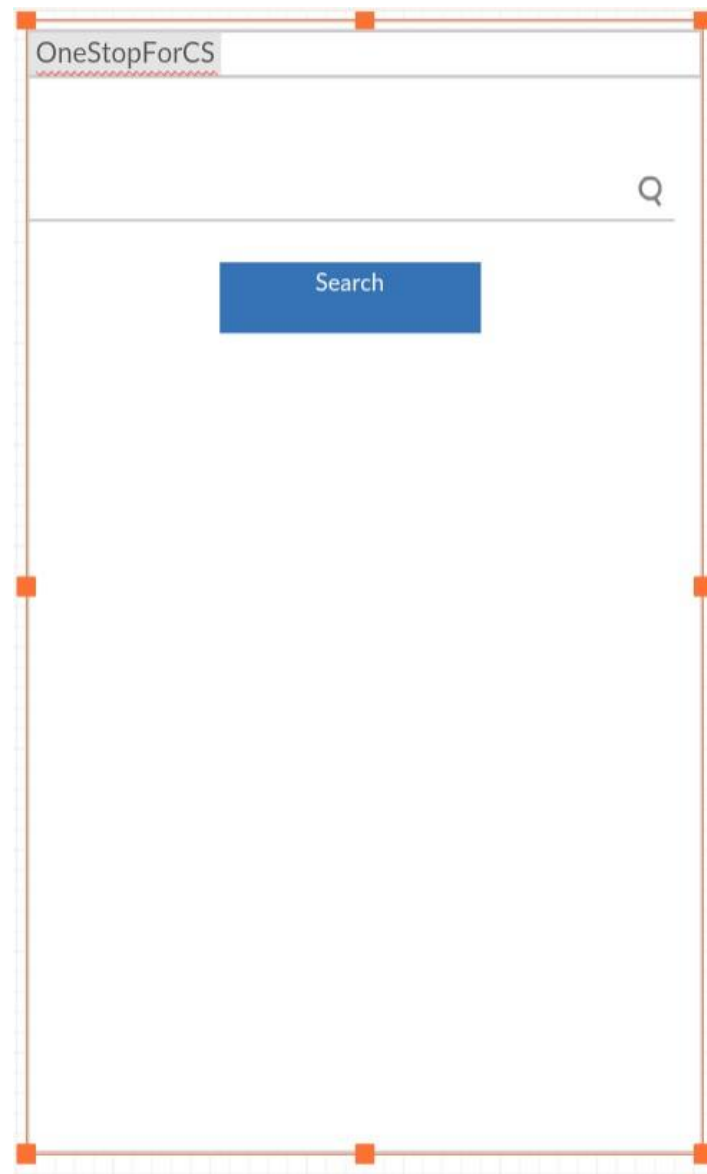
Last Name

Email

User Name

Password

Wireframe for SlideShare Search page



OneStopForCS

Search String

Q

Search

Search Result 1

Search Result 2

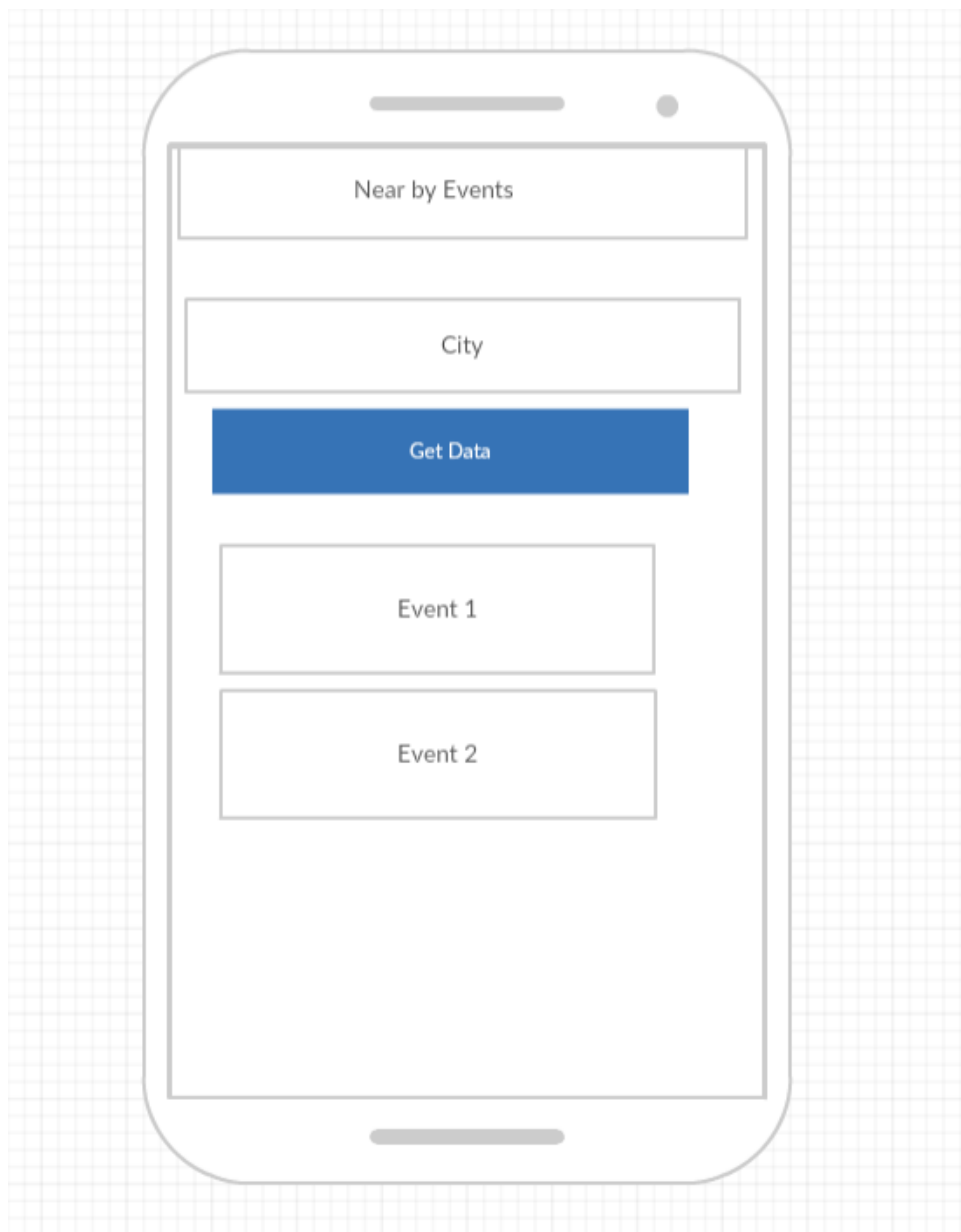
Search Result 3

Search Result 4

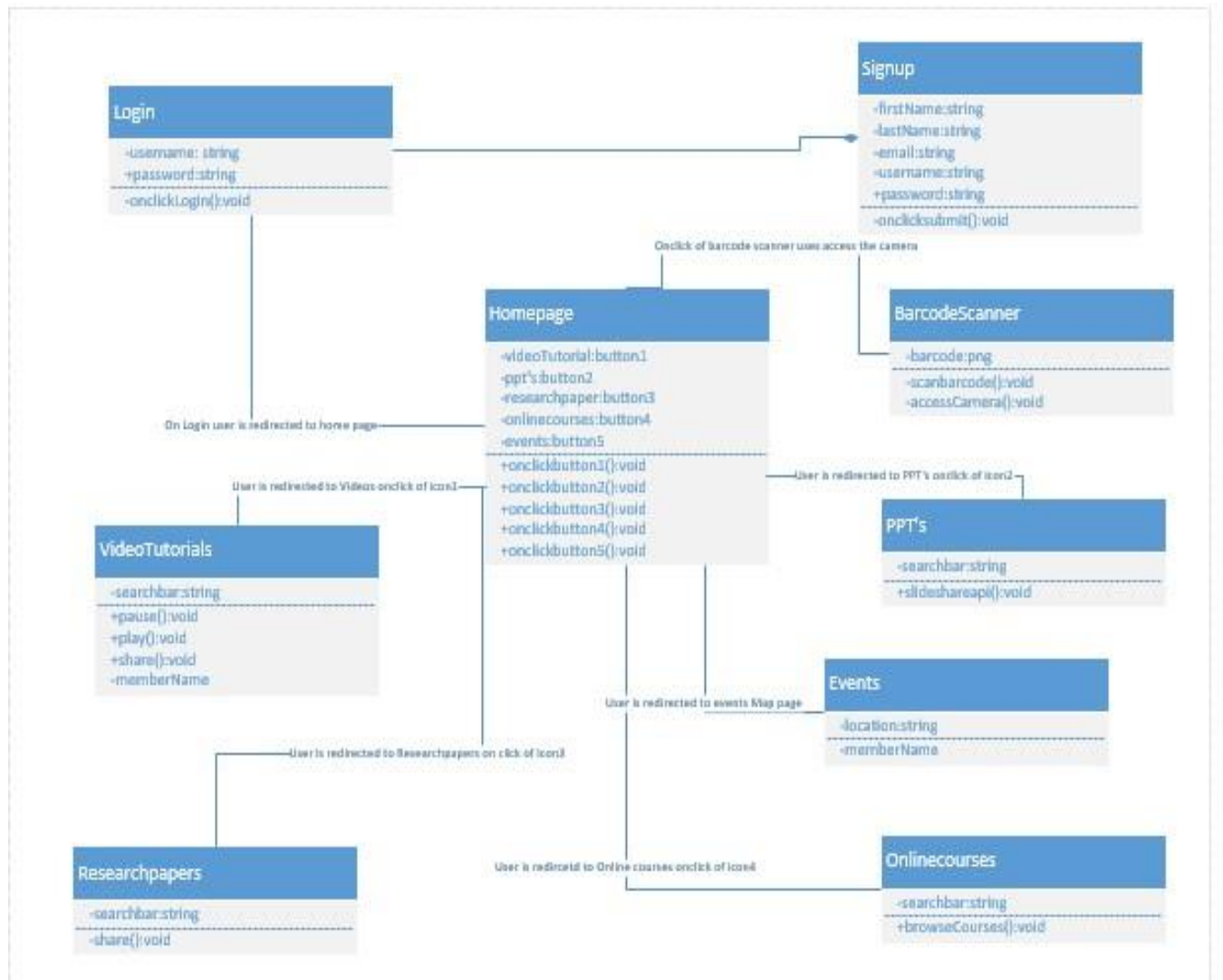
Search Result 5

Search Result 6

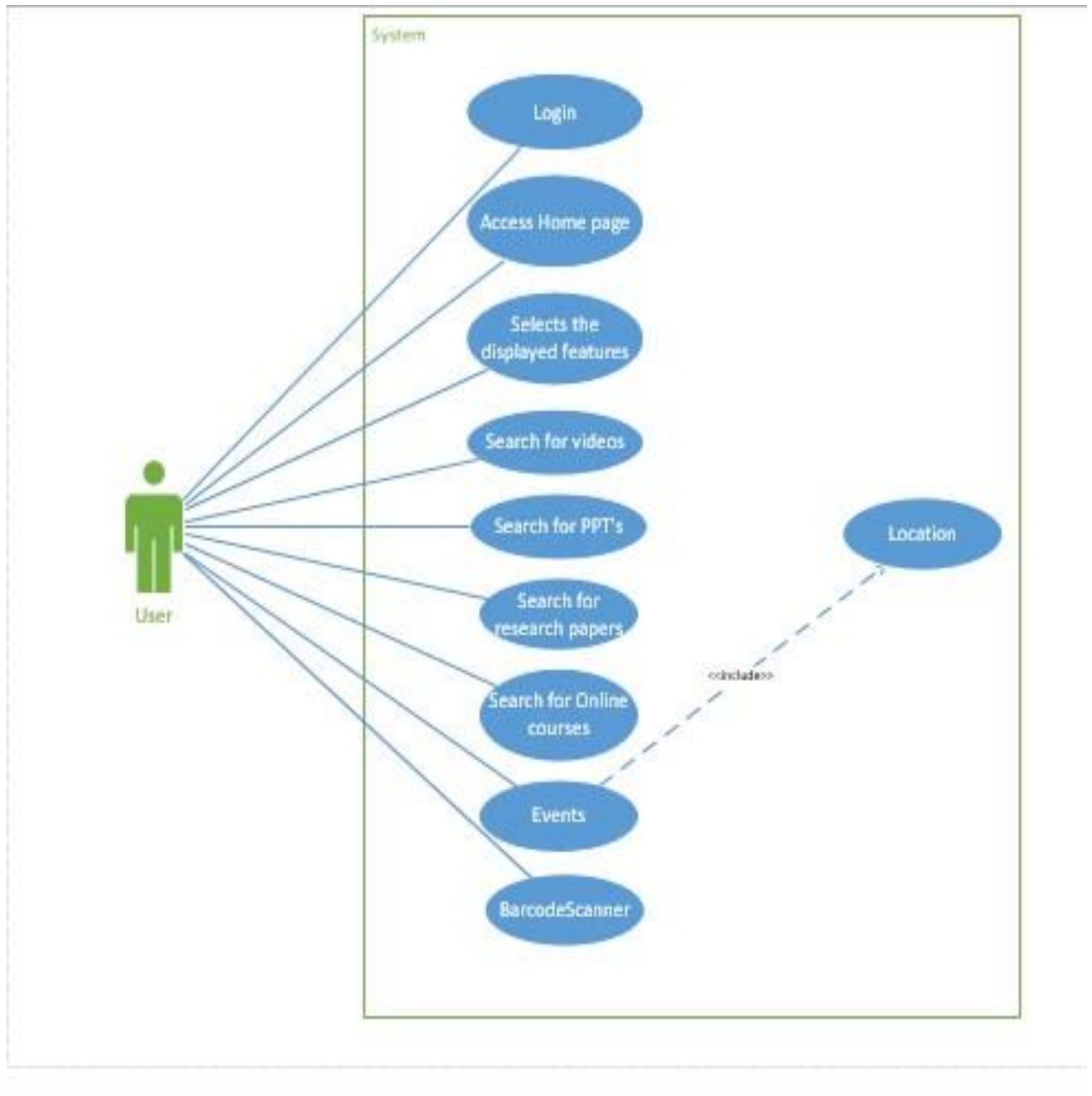
Wireframe for Eventful API



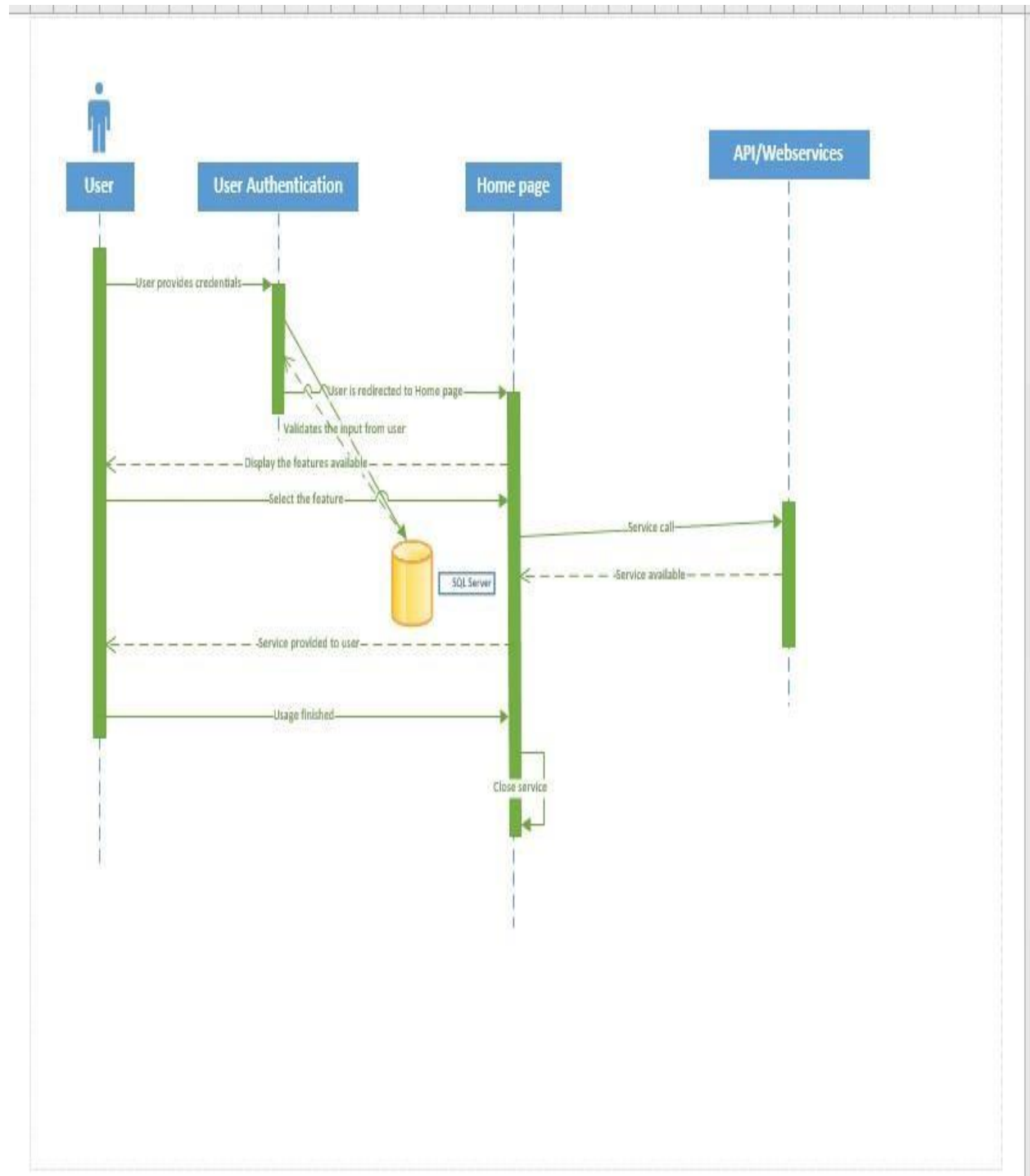
4.2.2 Class Diagram:



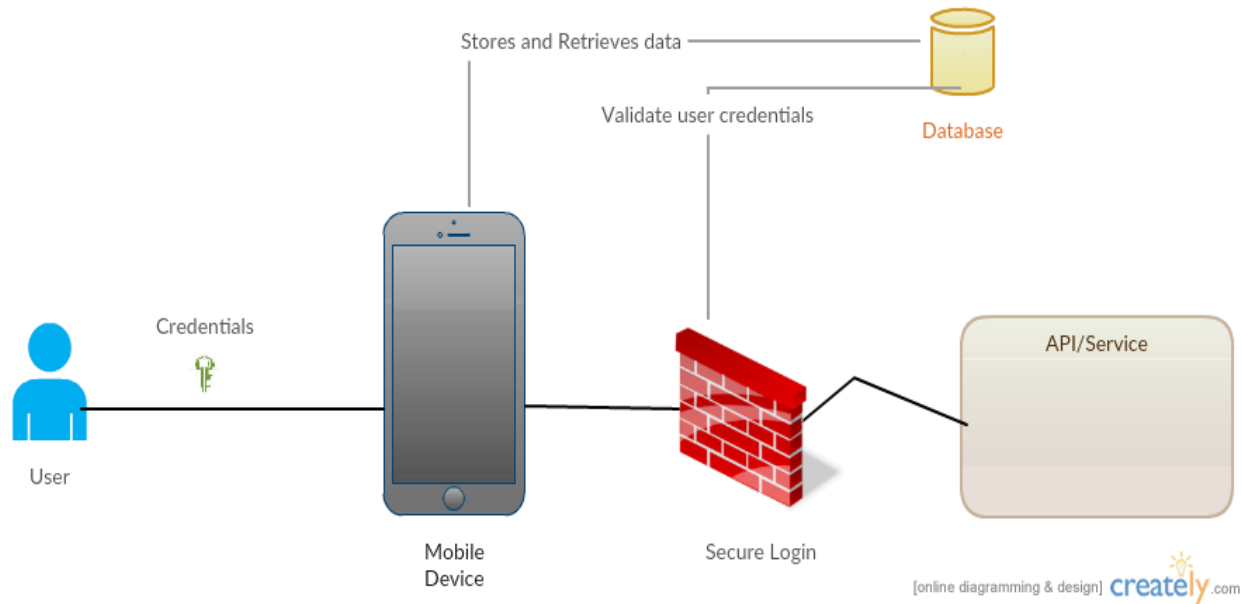
4.2.3 Use Case Diagram:



4.2.4 Sequence Diagram



4.2.5 Architecture Diagram



4.2.6 User Stories

As a	I want to	So that
User	search for the resources of computer science	I can learn new technologies in the current industry.
	search for video resources according with keyword	I can narrow down the search results to specific content.
	get the presentations of computer science topics	I can better understand in brief and can explain to others easily.
	search for research paper in particular topic	I can gain more insights of the topic and find out interesting things.
	read the topic which is favourite to my interests	I can bookmark the topic to access it easily.
	to contribute by providing more resources	I can give suggestions.
	do courses online	I can enrol to the course and finish it.

4.2.7 Unit Testing

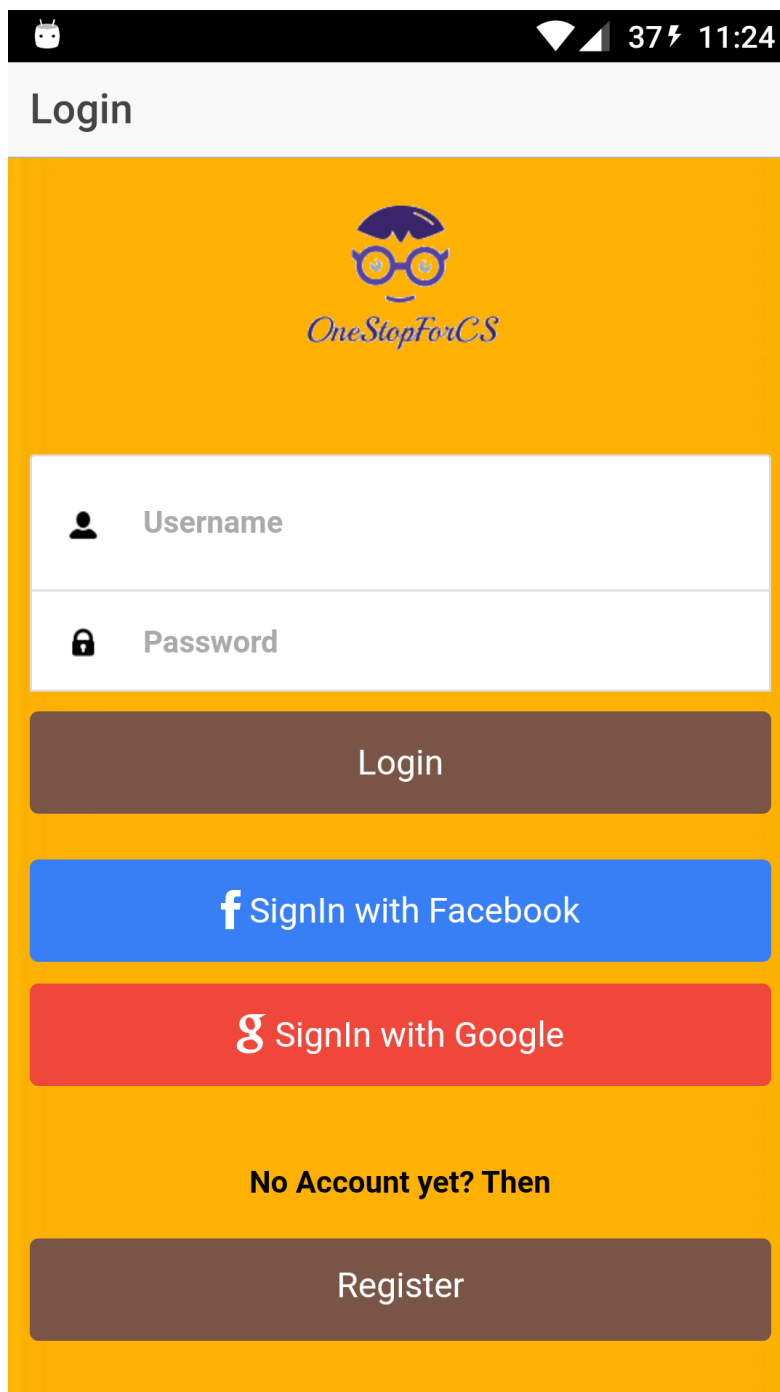
• **Test Cases for Login and Signup page:**

Case	Test case Description	Expected Result	Actual Result
Login	Enter invalid username and password	Error message should pop up saying invalid credentials.	PASS
Login	Enter invalid username and valid password	Error message should pop up saying invalid credentials.	PASS
Login	Enter valid username and invalid password	Error message should pop up saying invalid credentials.	PASS
Login	Enter valid username and password	Page should redirect to Home page	PASS
Signup	Email id format should end with @mail.com	Give error message incorrect email id format	PASS
Signup	Password of length 8 characters	Gives error message password is weak	PASS
Signup	Password and confirm password should match	If this succeeds it redirects to login page	PASS
Eventful	On searching the location	Display the nearby events	PASS
BarCodeScan	On scanning the bar code	Display the product id	PASS
SlideShare	On giving the keyword in search bar	Displays the list of PPT's related to key word given in search bar	PASS

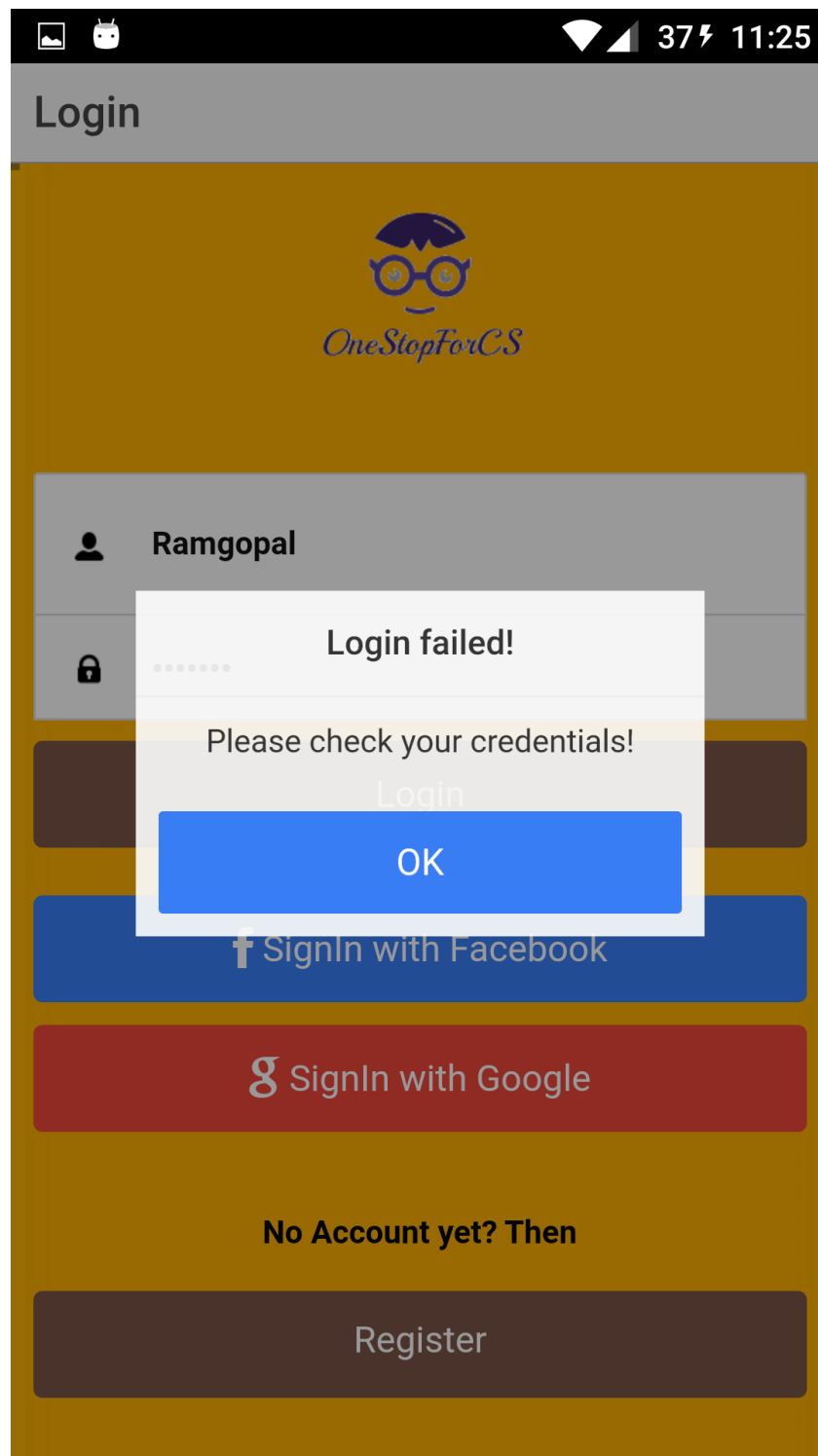
5. Implementation and Deployment

We have implemented the OneStopForCS application in Android Studio onto an emulator. Following screenshots describe the flow of the application.

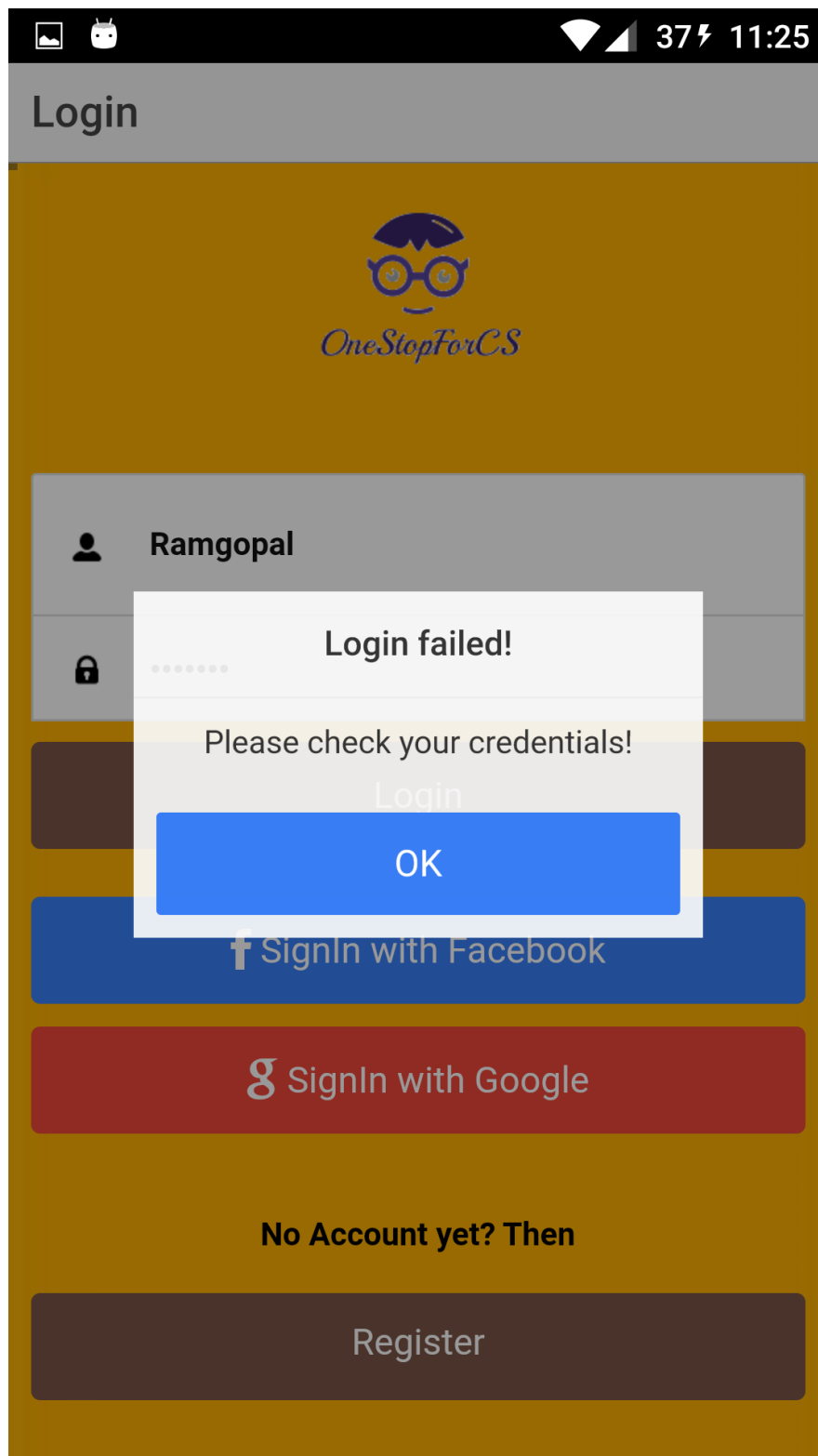
5.1 Login page for the application “OneStopForCS” as shown below :



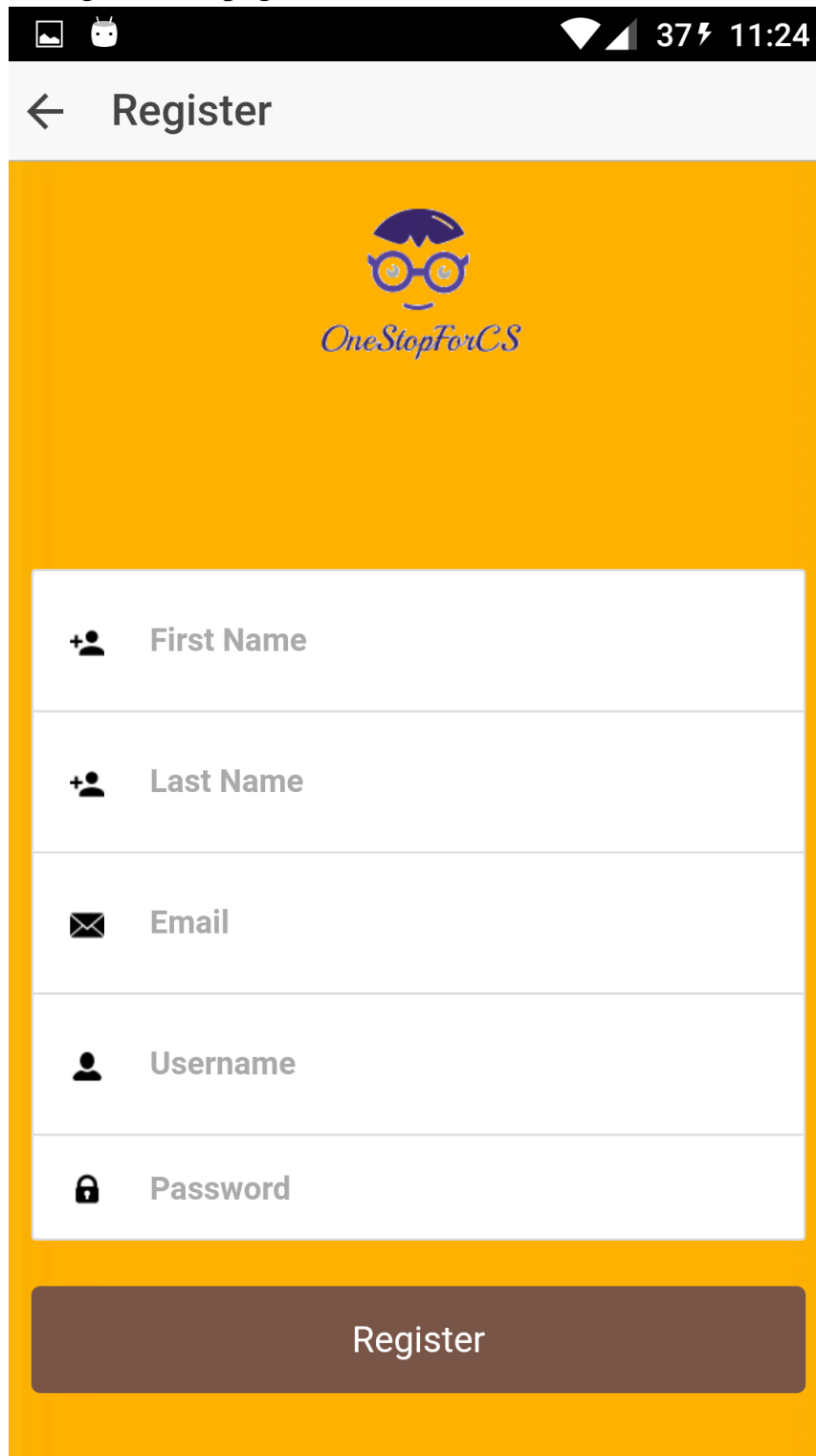
5.2 Application will prompt an error message if both the Email field and Password fields are empty.



5.3 Also application will prompt an error message if user enter wrong email or password.

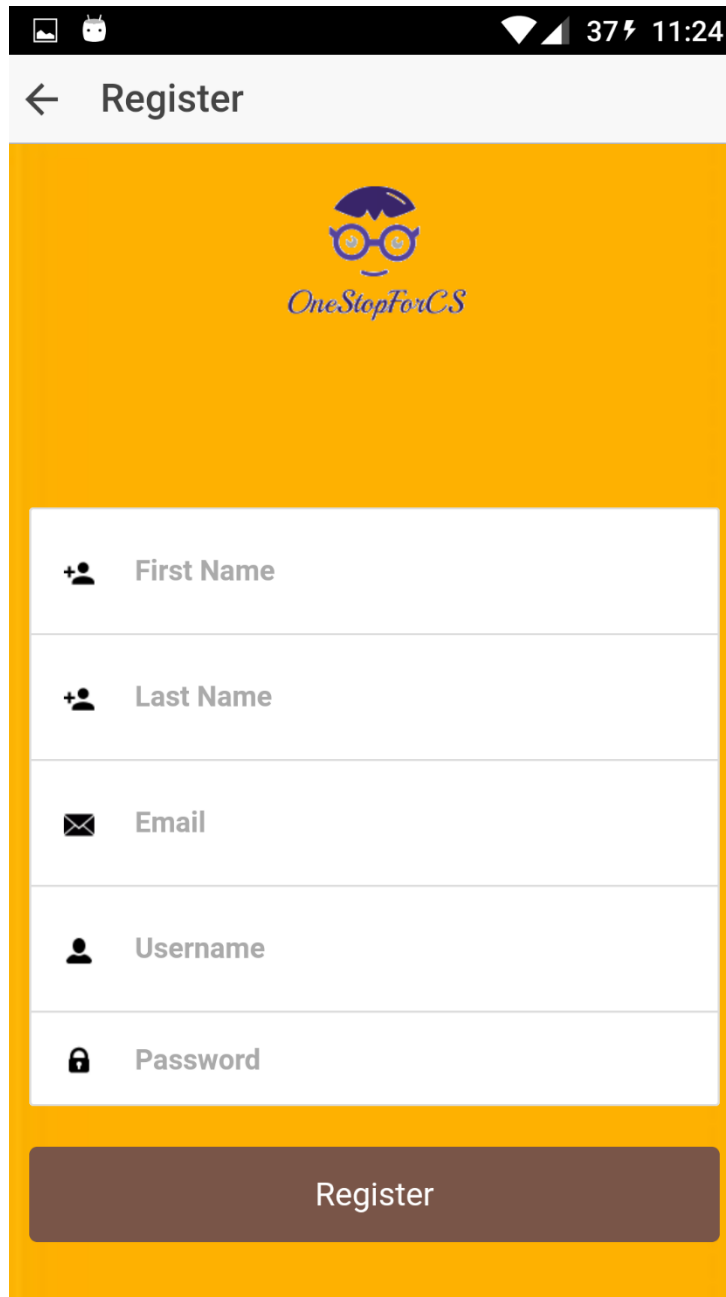


5.4 A new user can register by clicking on ‘No account yet? Create one’ button. By clicking on this button, application will be redirected to registration page.

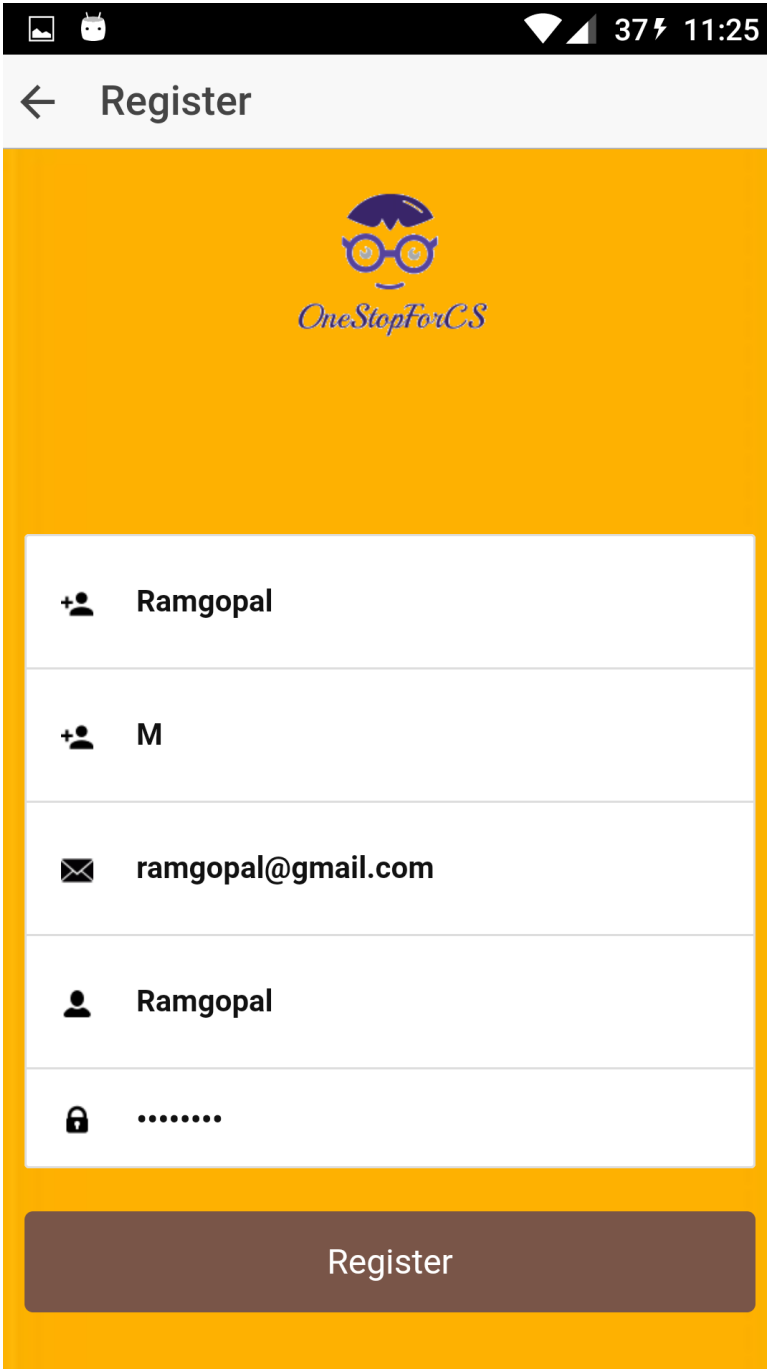


The image shows a mobile application interface for registration. At the top, there is a black status bar with icons for a gallery, a cat, signal strength, and battery level at 37%, along with the time 11:24. Below this is a white header bar with a back arrow and the title 'Register'. The main background is orange. In the center, there is a logo for 'OneStopForCS' featuring a purple cat face with glasses. Below the logo is a white registration form with five input fields, each with an icon and a label: a person icon for 'First Name', a person icon for 'Last Name', an envelope icon for 'Email', a person icon for 'Username', and a lock icon for 'Password'. At the bottom of the form is a large brown button labeled 'Register'.


5.5 User must enter name, email id, password and confirm password fields to complete the registration.



The image shows a mobile application interface for registration. At the top, there is a black status bar with icons for signal, battery, and time (11:24). Below this is a white header bar with a back arrow and the text "Register". The main background is orange. In the center, there is a logo featuring a purple umbrella with yellow eyes and the text "OneStepForCS" below it. Below the logo is a white form with five input fields, each with an icon and a label: a person icon for "First Name", a person icon for "Last Name", an envelope icon for "Email", a person icon for "Username", and a lock icon for "Password". At the bottom of the form is a large brown button labeled "Register".



← Register



+ Person Ramgopal

+ Person M

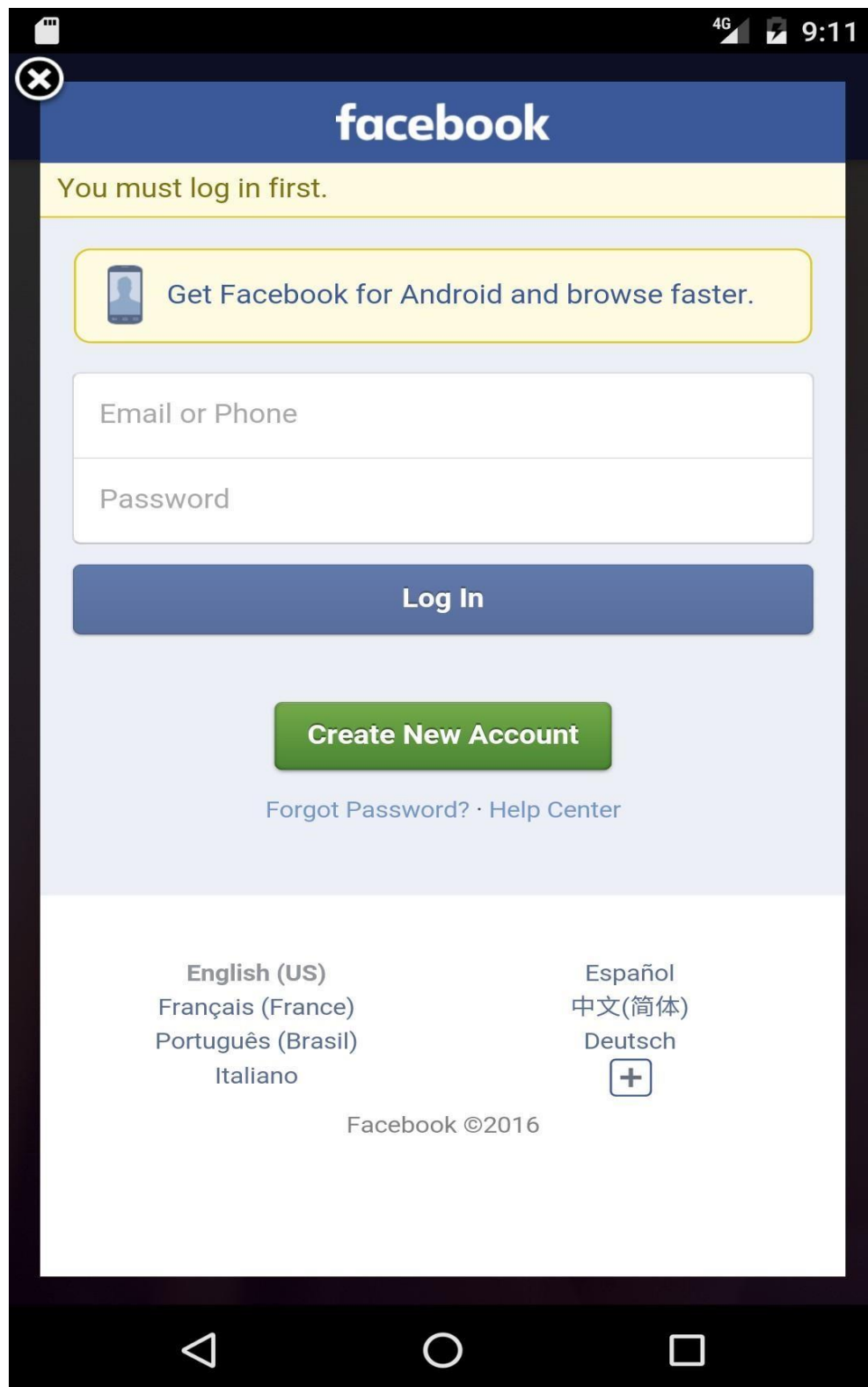
✉ ramgopal@gmail.com

Person Ramgopal

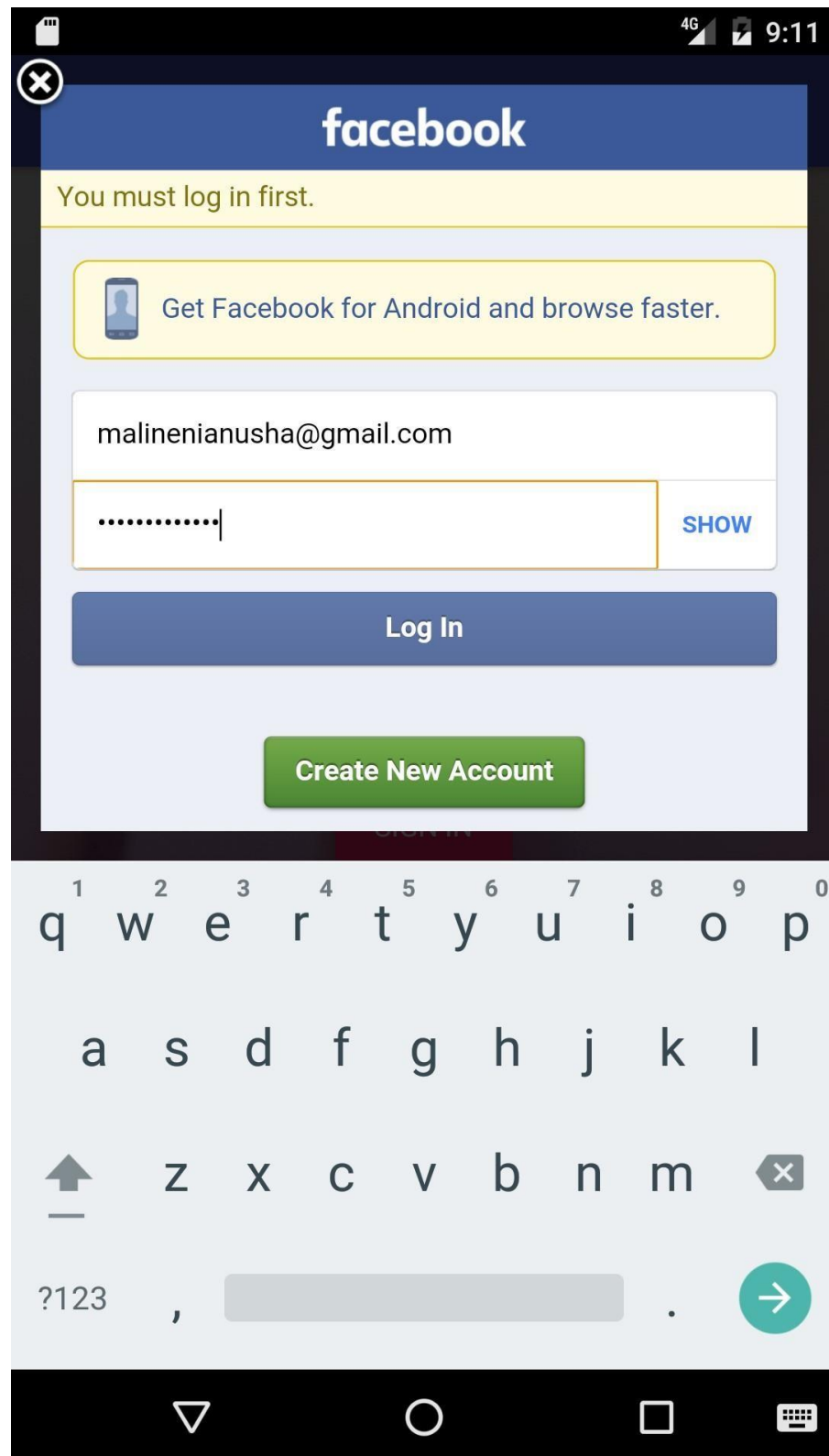
🔒

Register

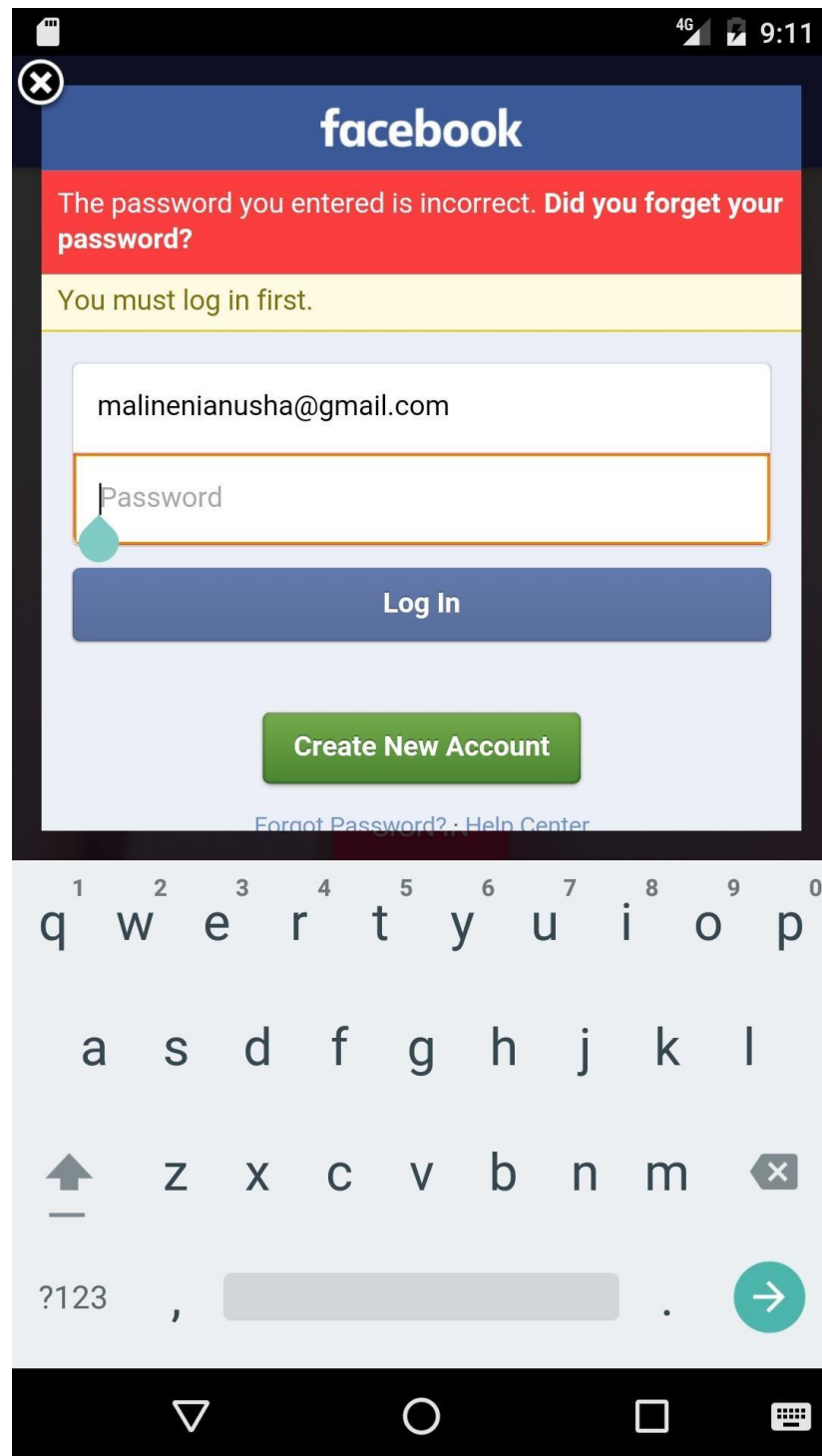
5.6 From the login page, user can also login through Facebook login. By clicking on 'Log in with Facebook button' application will be redirected to Facebook log in page.



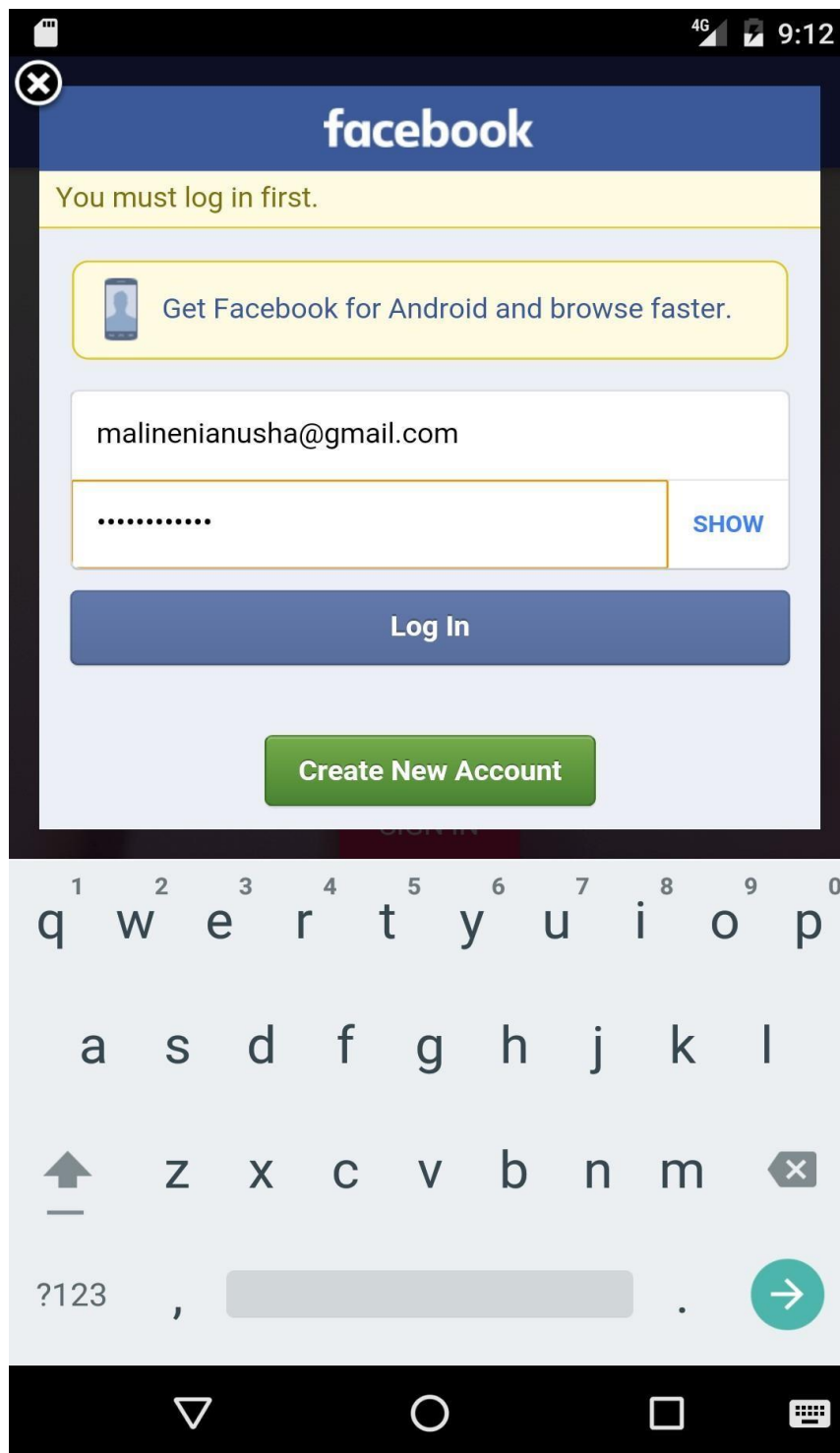
5.7 User must enter his/her Facebook login details. User must enter correct credentials of Facebook to login to application.



5.8 Following error will prompt if the user enters wrong Facebook login details.

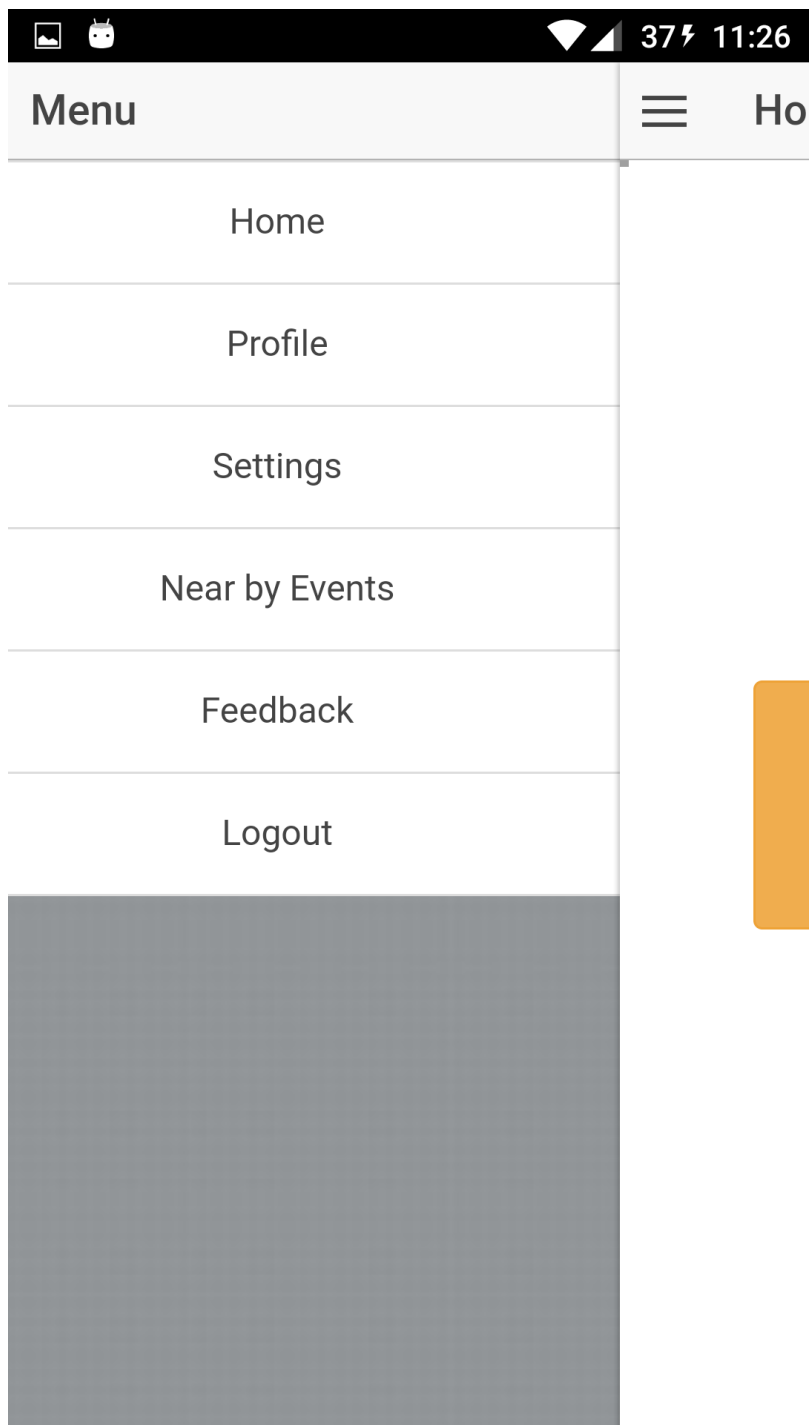


5.9 By entering the correct Facebook credentials, application will be redirected to home page.

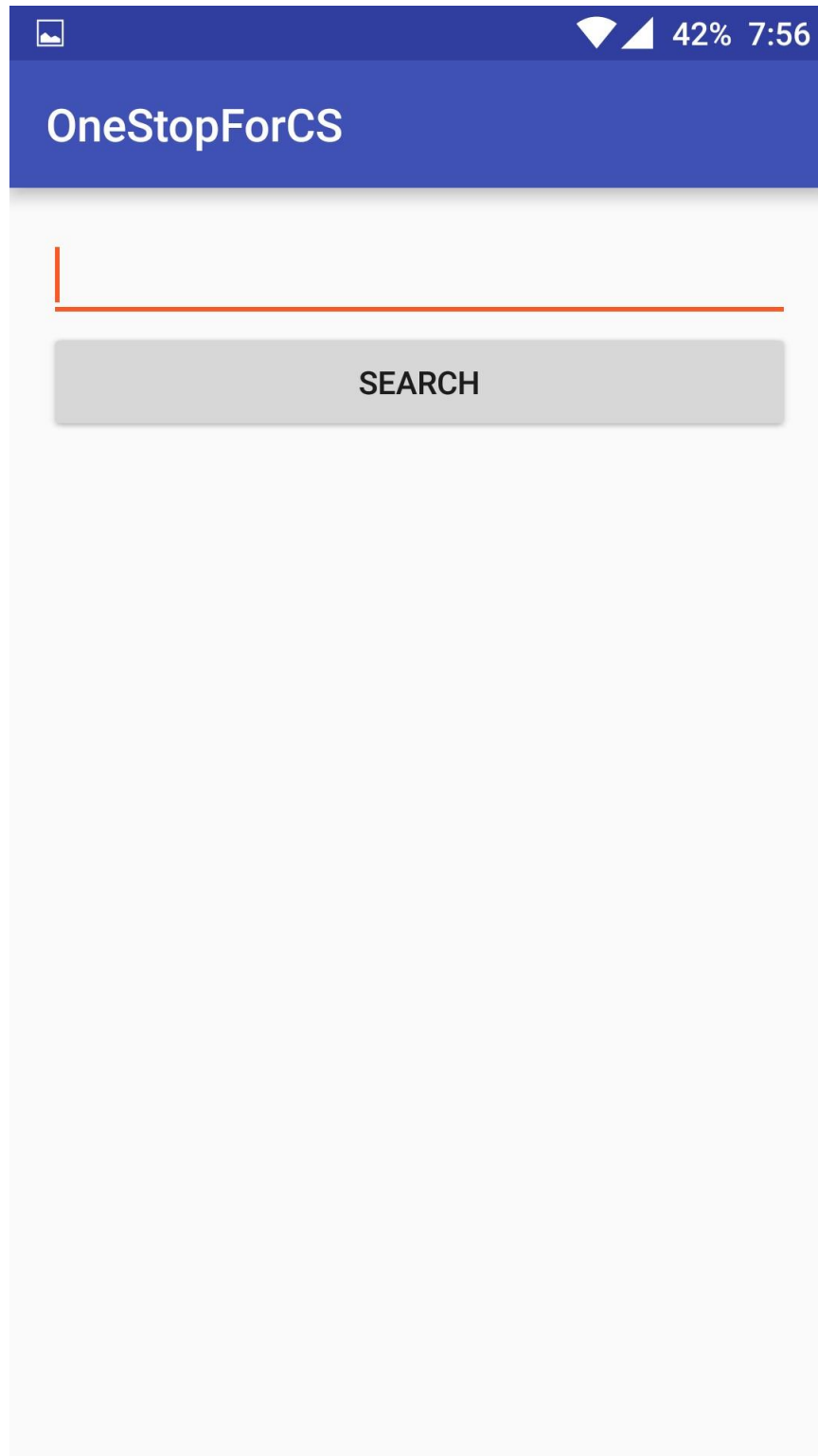


5.10 Following is the home page of our application. User will be redirected to home page by logging into the system either through application login or through Facebook login.

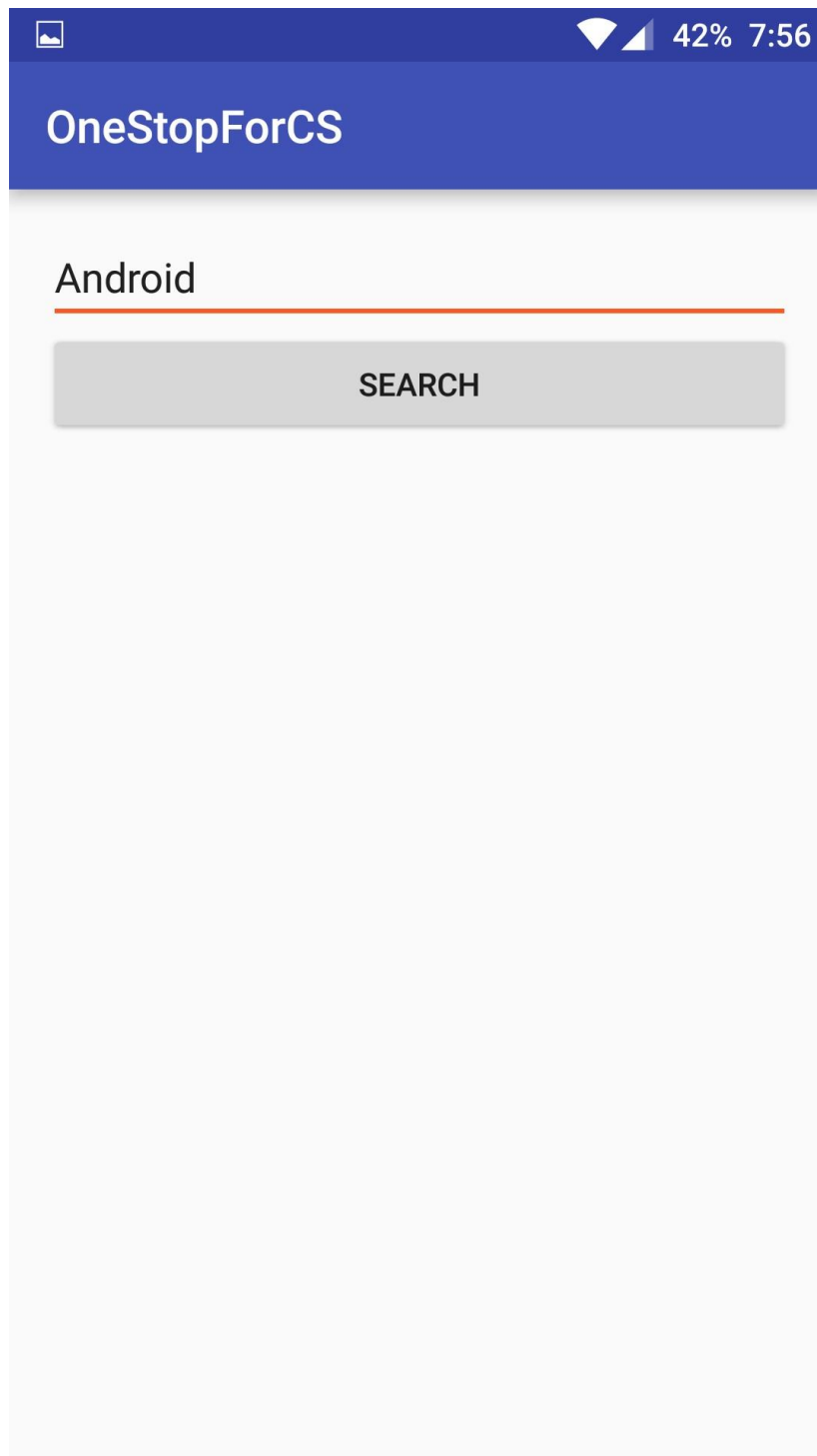




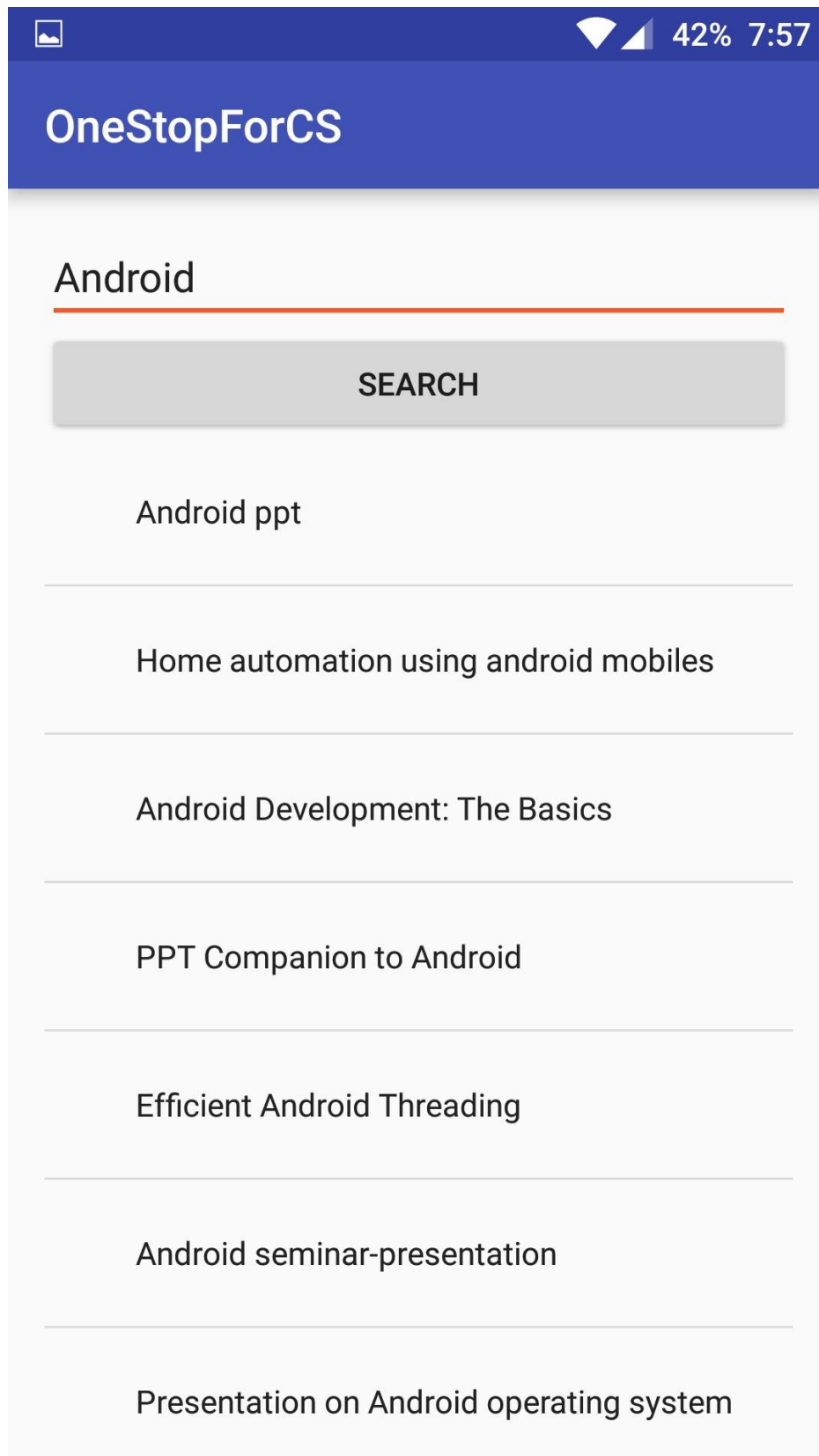
5.11 On Clicking the PPT button, user is navigated to SlideShare Search Page where user can search PPT's.



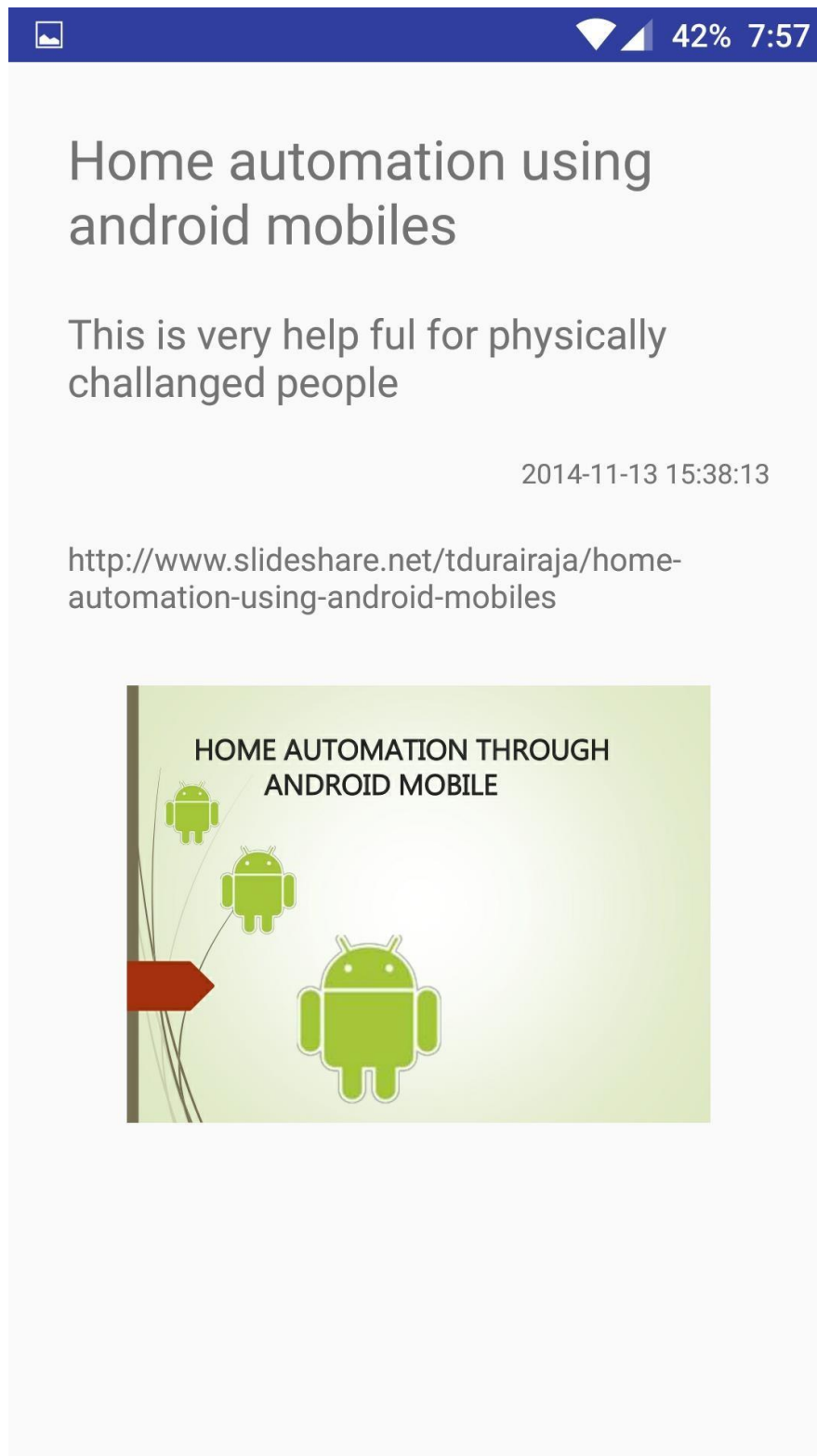
5.12 User search for PPT on Android topic



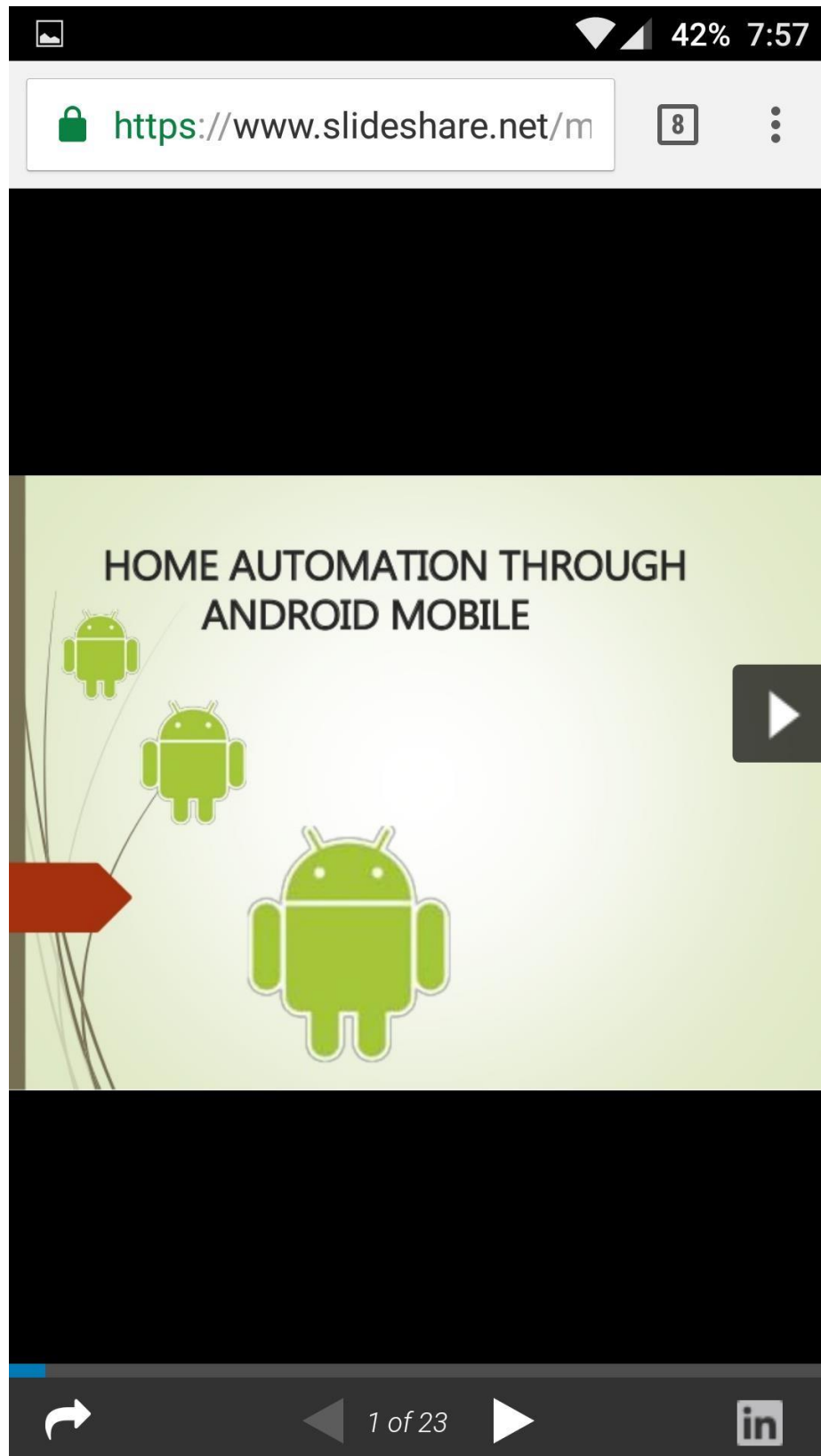
5.13 On click of search button, results are shown below.

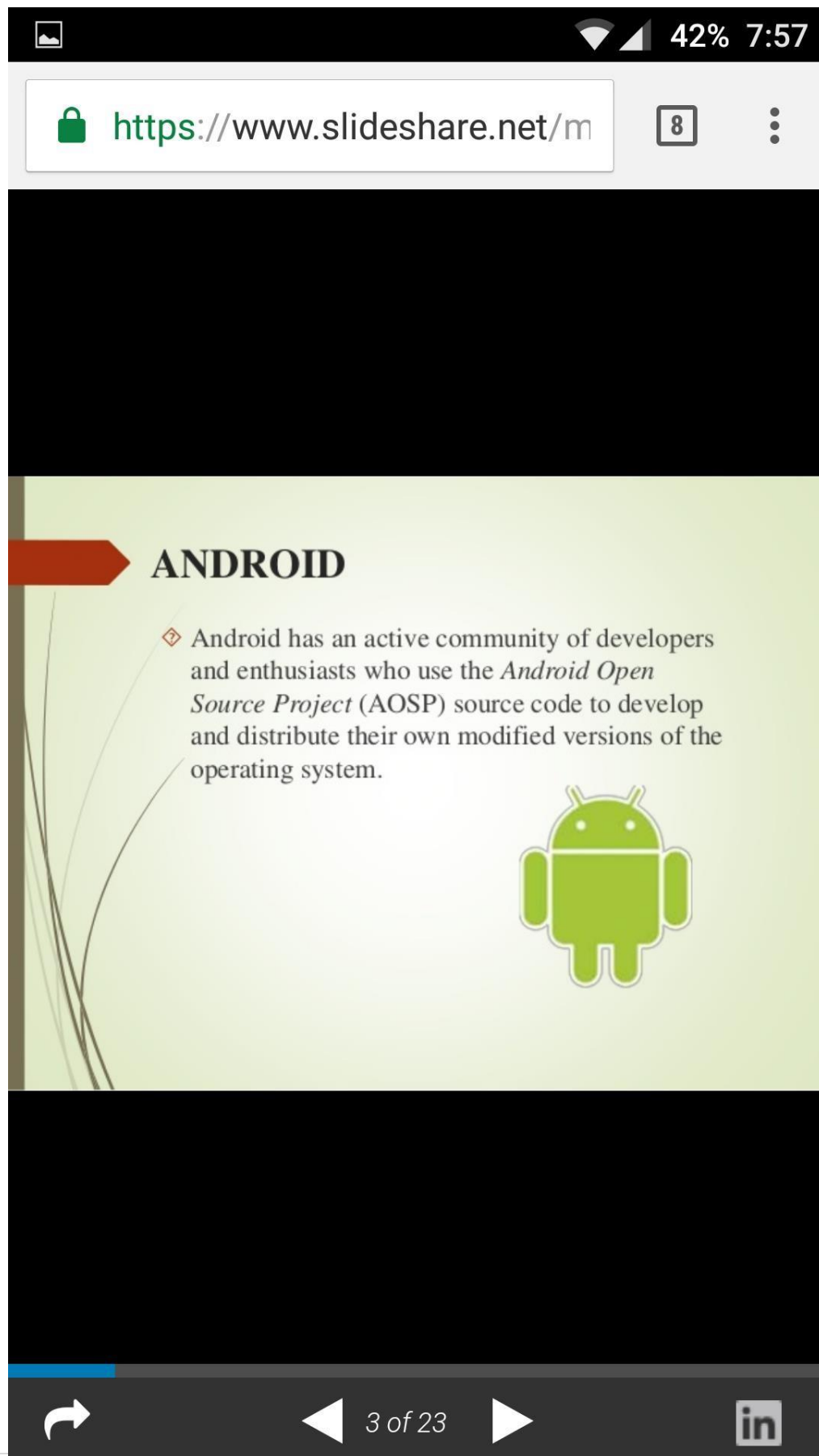


5.14 On clicking any of the search results , we will be redirected to SlideShare PPT.



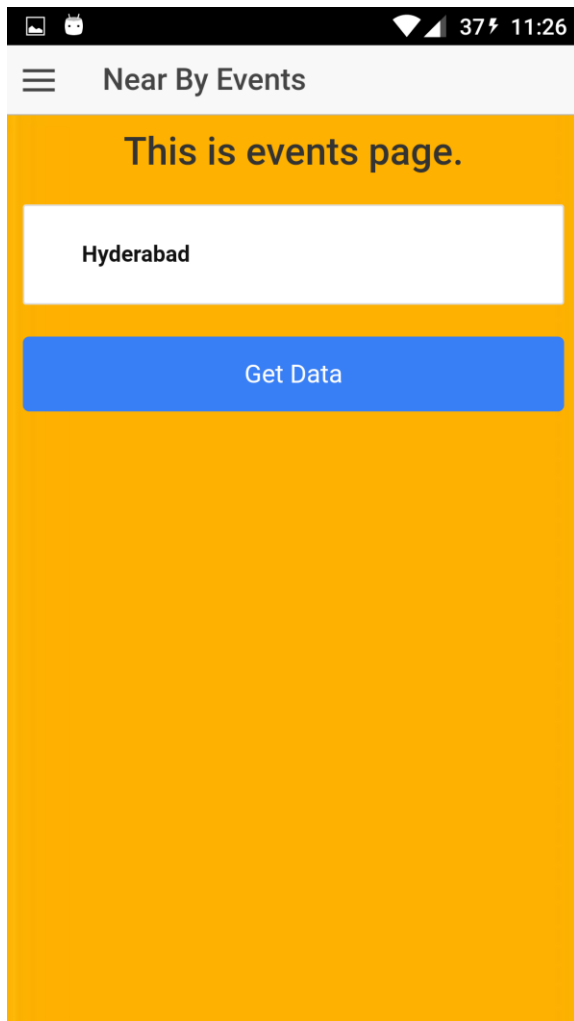
5.15 On clicking the PPT icon, user is redirected through browser to open PPT.

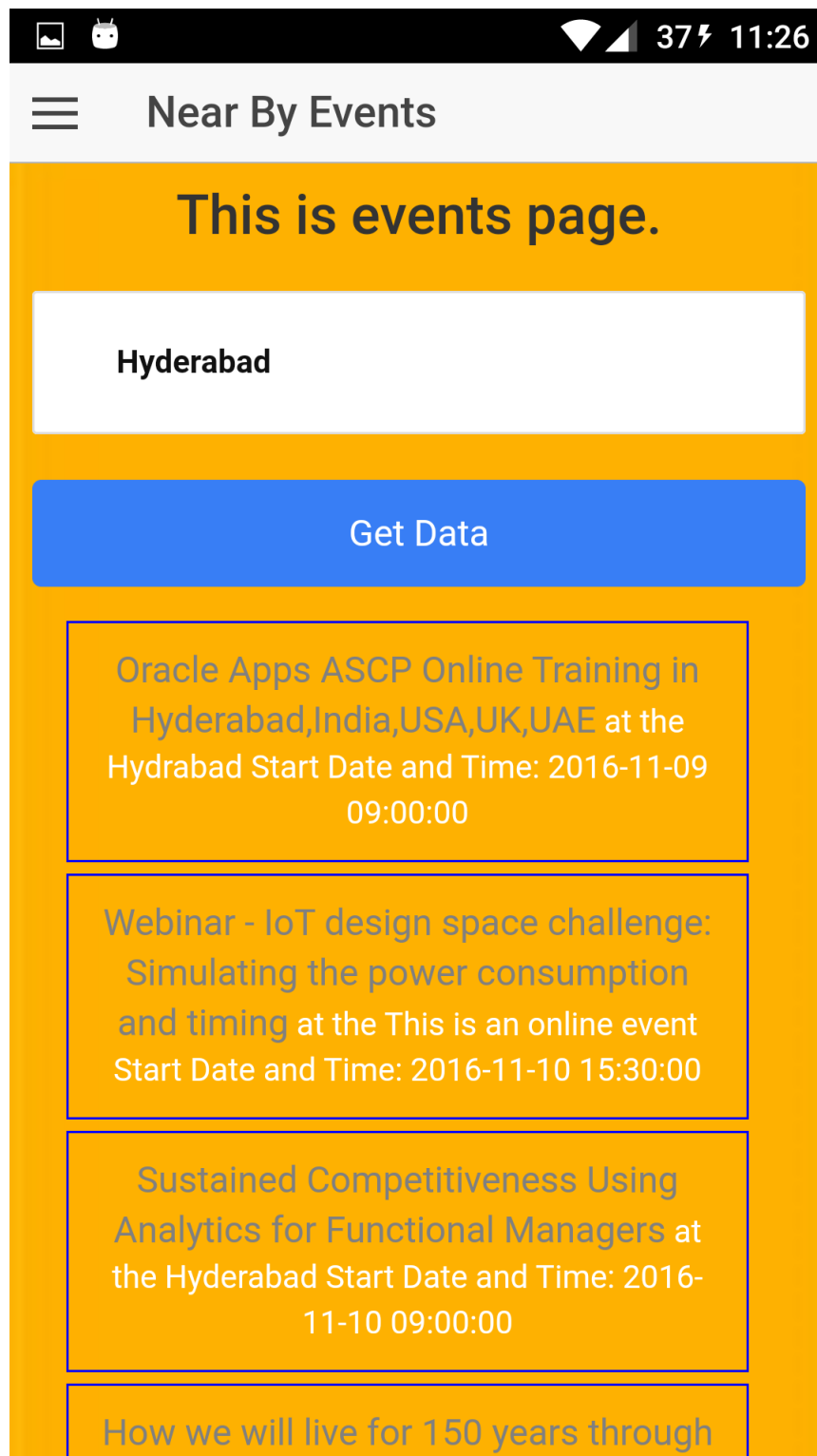




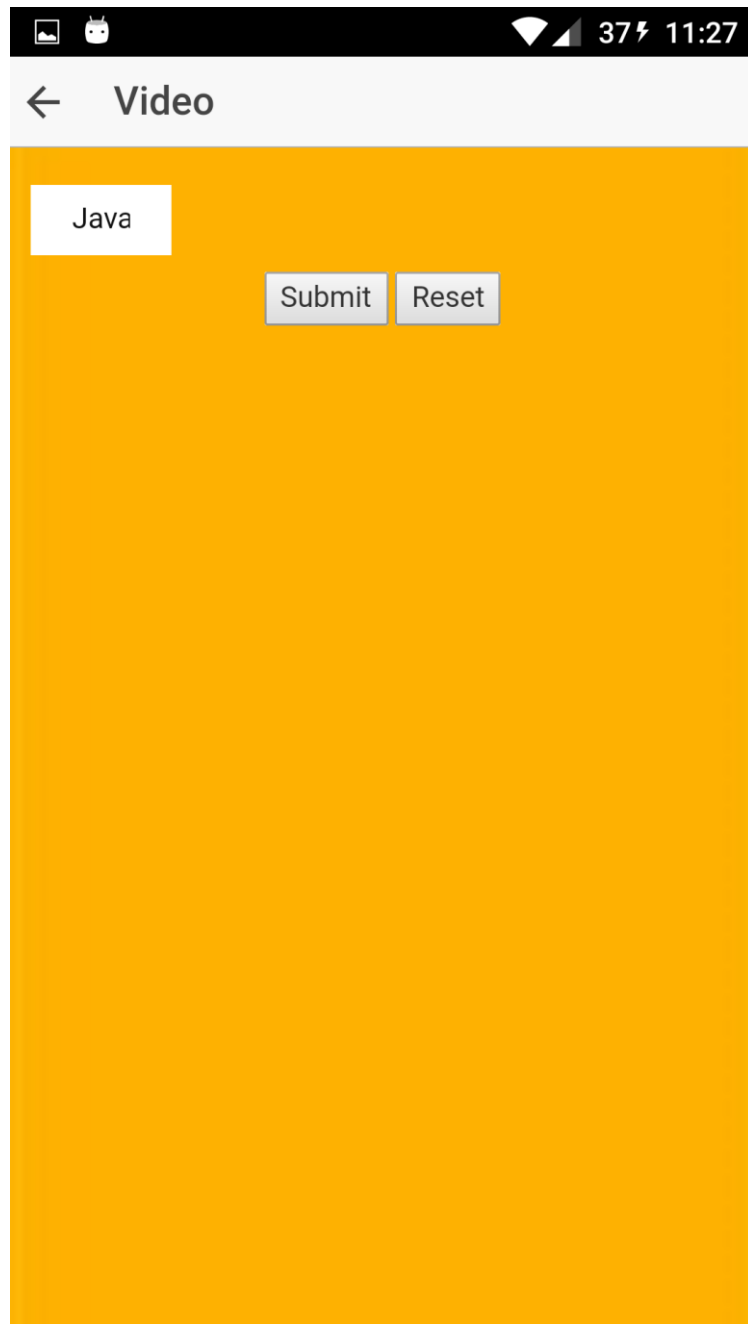
5.16 On clicking events image, application will be redirected to the following page.

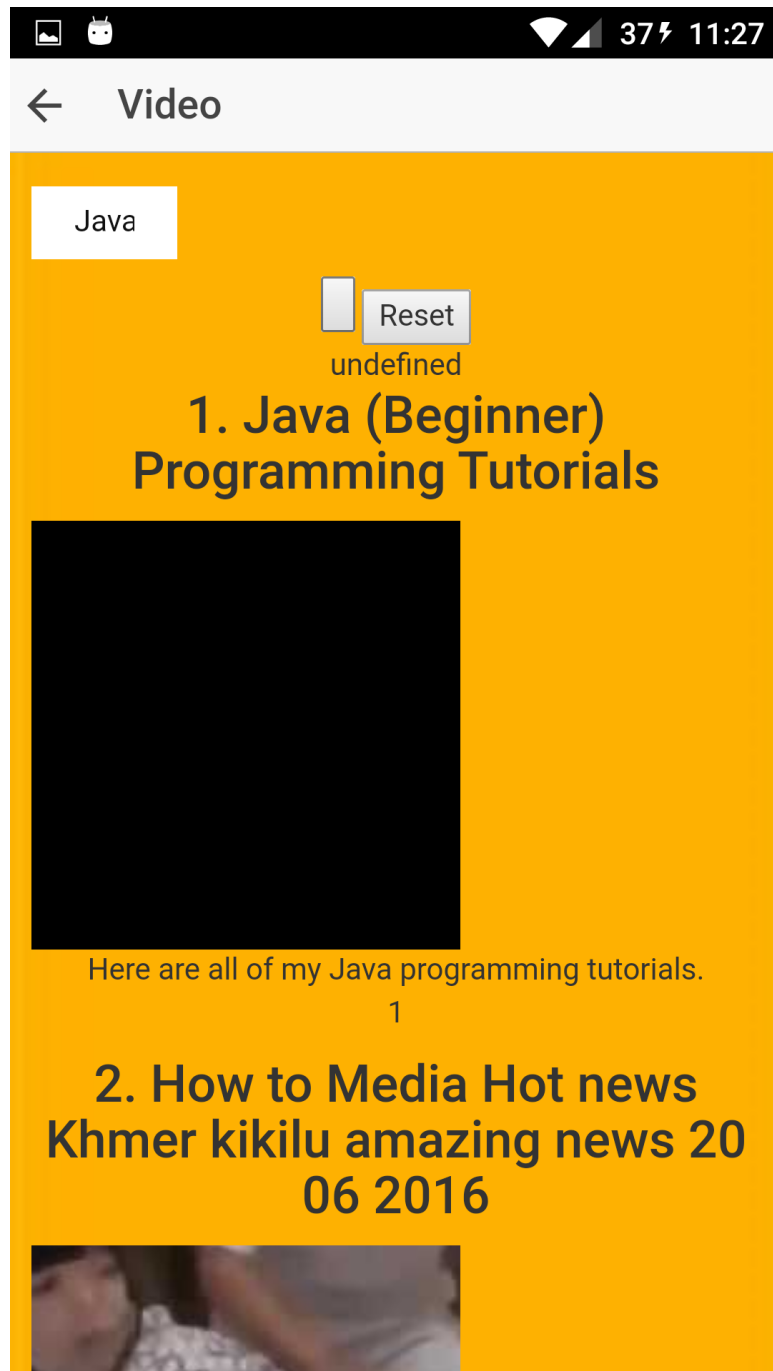
5.17 Application retrieves the nearby events based on the user input.





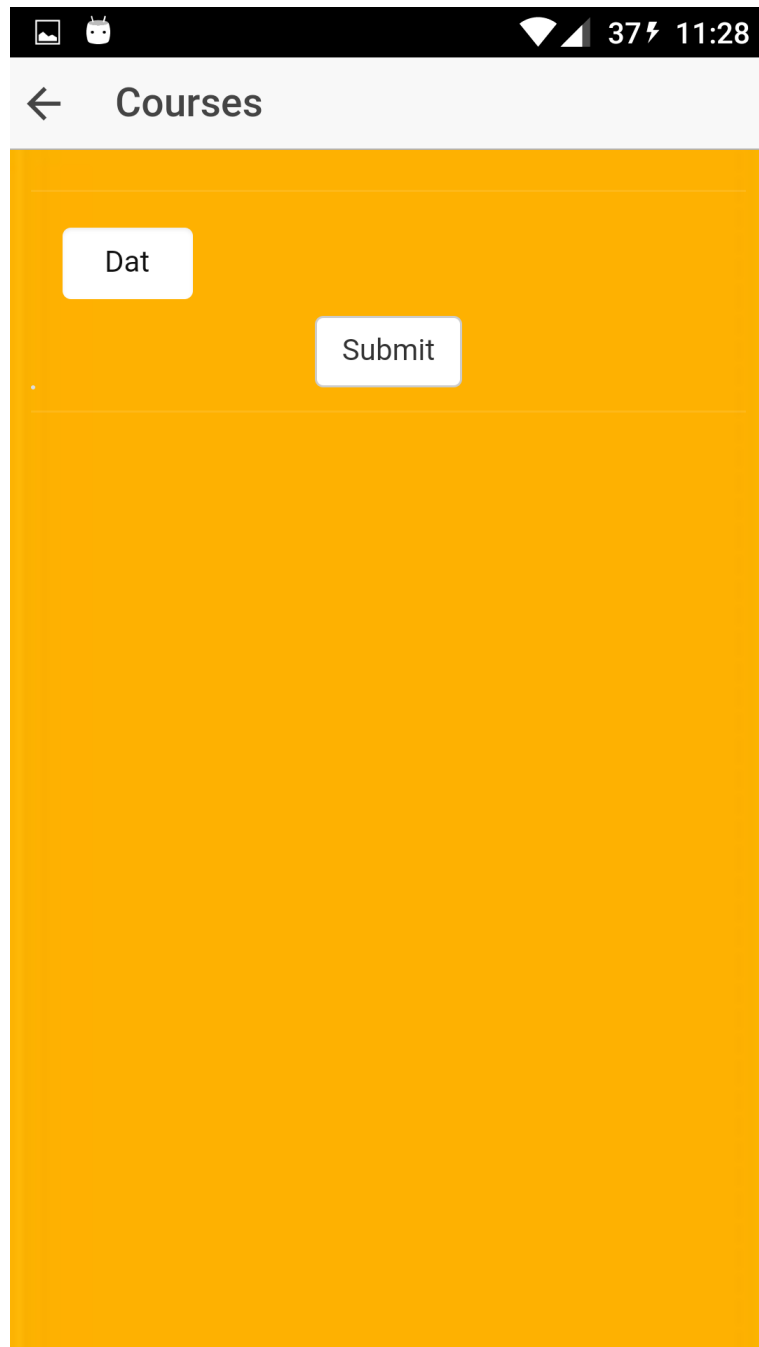
5.18 Based on user input the corresponding videos will be retrieved from the YouTube using the API call.

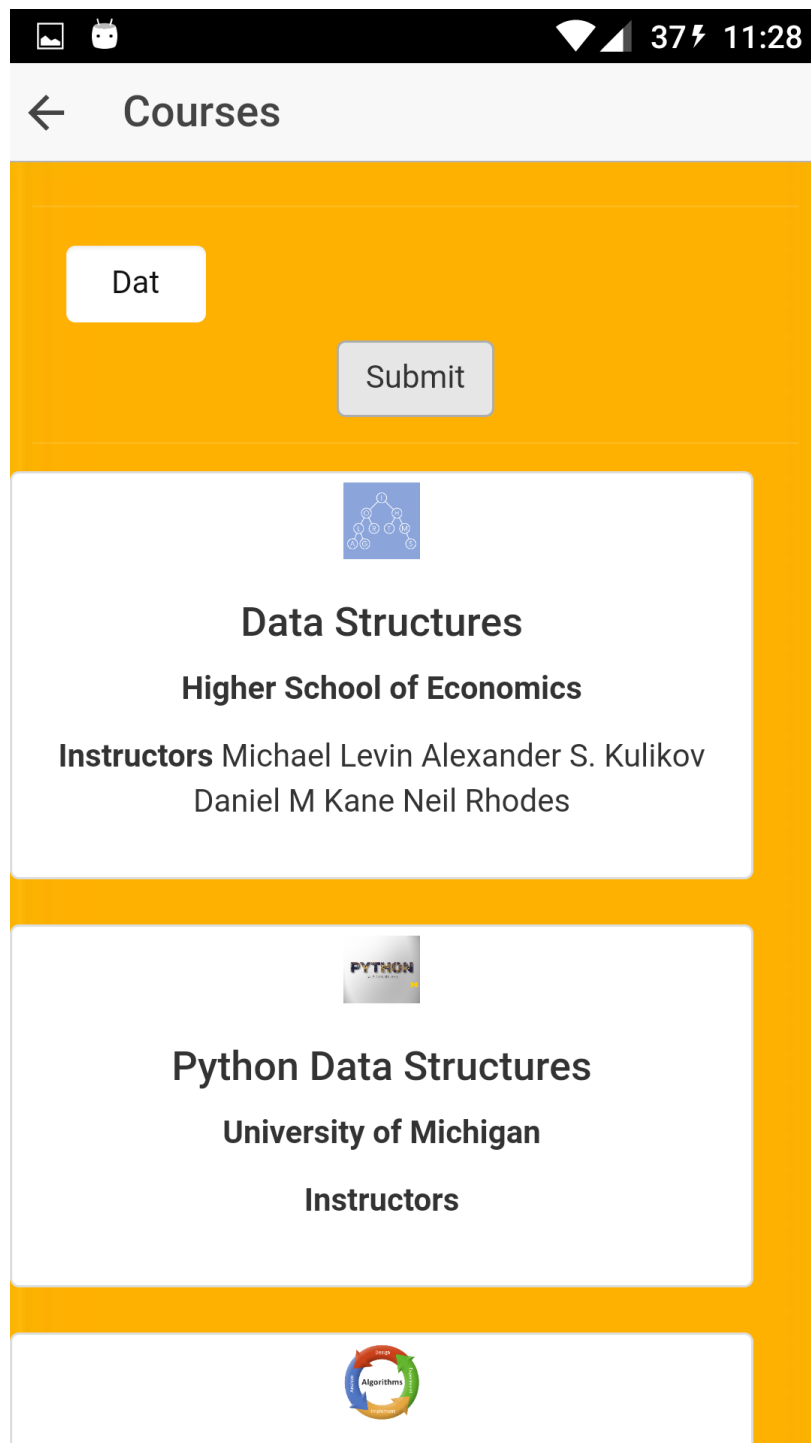


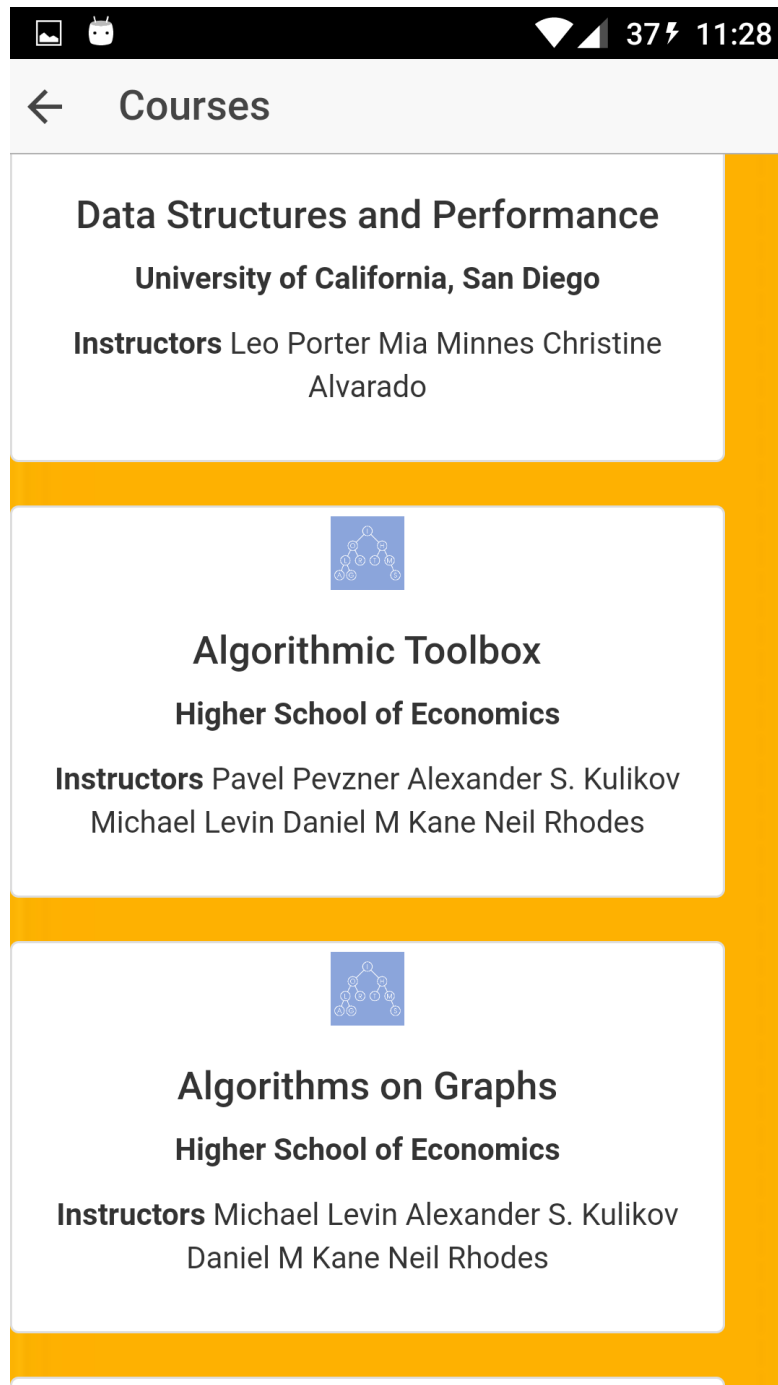




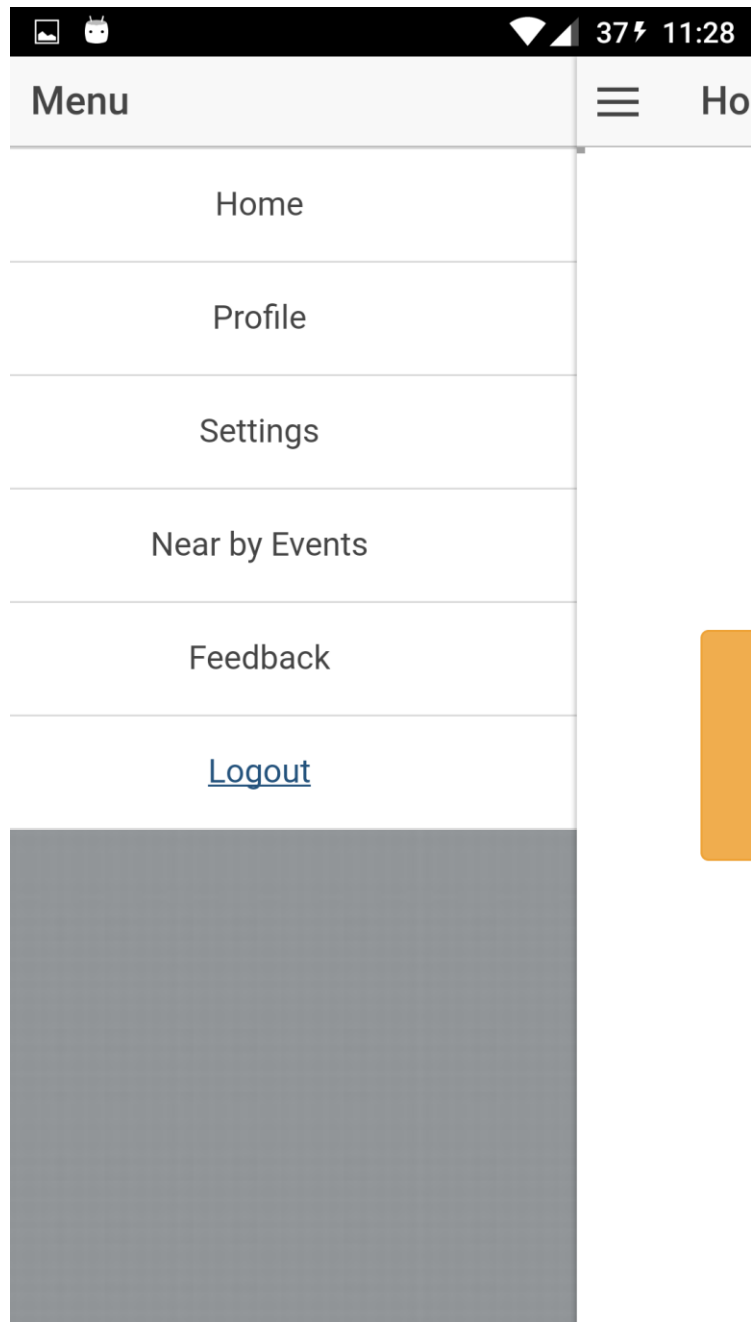
5.19 Based on given user search corresponding courses will be retrieved from Coursera.







User will logout of the application



GitHub wiki page URL:

<https://github.com/MalineniAnusha/ASEProject/wiki/Project-Increment-3>

6. Project Management

Implementation status report

Technologies Used: Ionic Framework, HTML, CSS, JS, Angular JS.

Work Completed

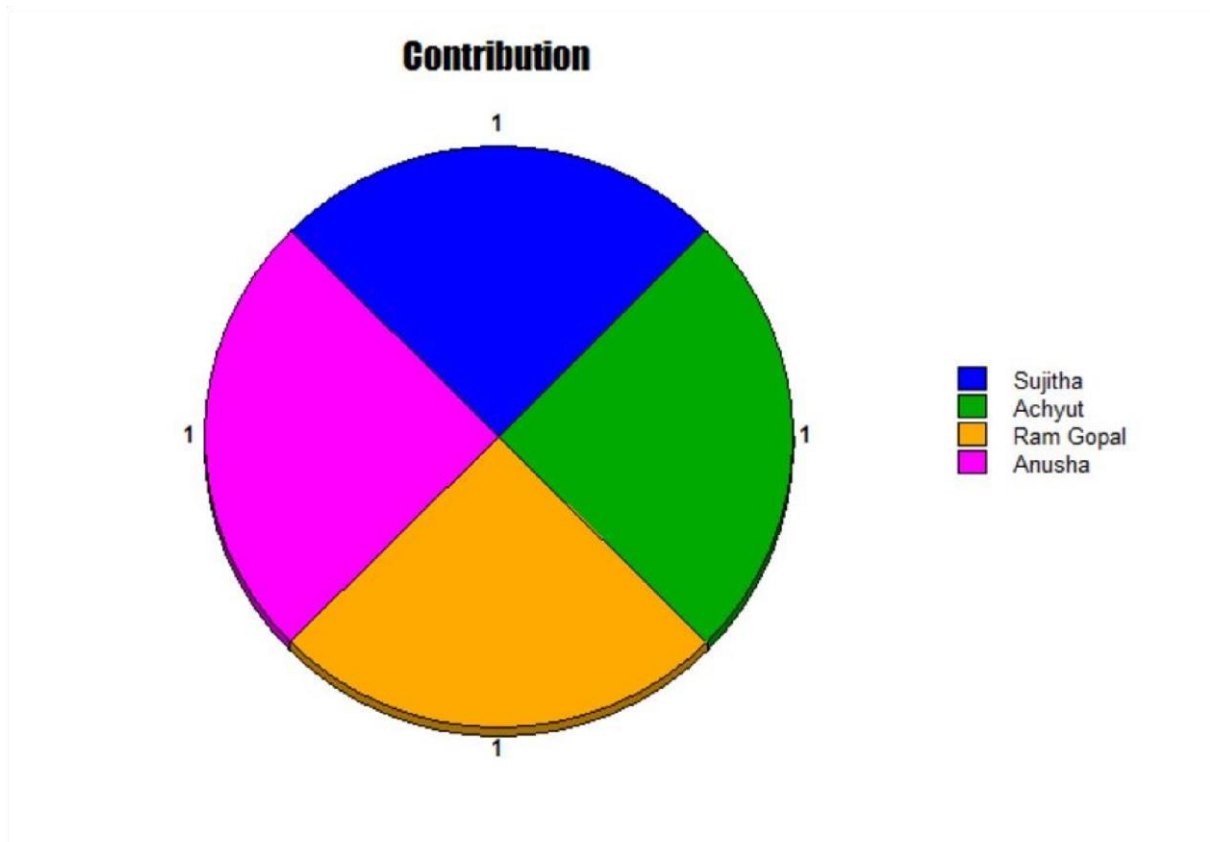
- Design and Architecture of the Application
- Login and Registration using MongoDB.
- Implemented SlideShare API
- Implemented on Eventful API
- Implemented YouTube API.
- Implemented Coursera API.

Work to be Completed

- Integrating the Journal API with the application.
- Improving the User Interface of the application.
- Collecting the API useful for the application.
- Integrating discussion forum in application.

Contributors:

- Sujitha, Puthana – 25 %
- Achyuth Reddy, Nalamadgu – 25%
- Anusha, Malineni – 25 %
- Sri Sai Narayana Ram Gopal, Mangena – 25 %



7. Bibliography

1. <http://creatly.com/>
2. <http://developers.facebook.com>
3. creatly.com
4. stackoverflow.com

