# Project Second 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.

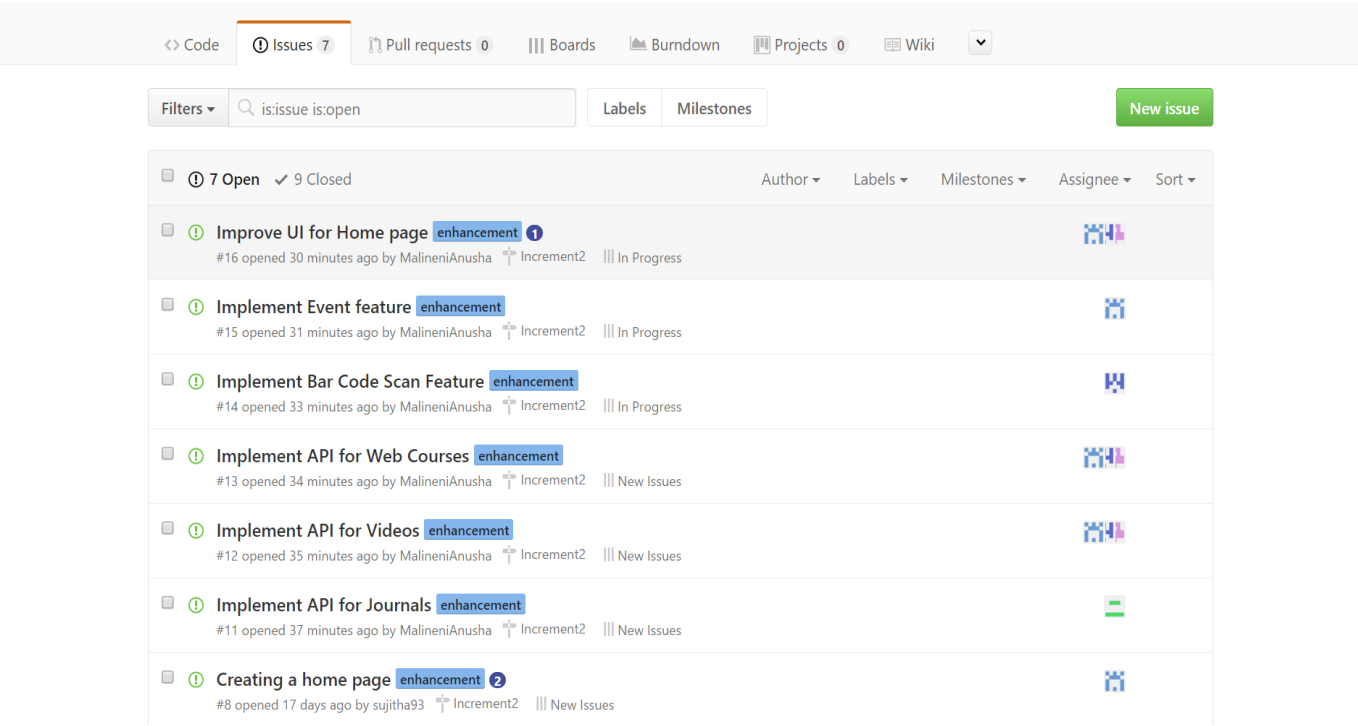
**2.3.7 Bookmarking facility:** A Registered User can bookmark a particular video, presentation, research paper or an online course website. By bookmarking resources, user can find them under bookmarks section.

## 2.4 Significance

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

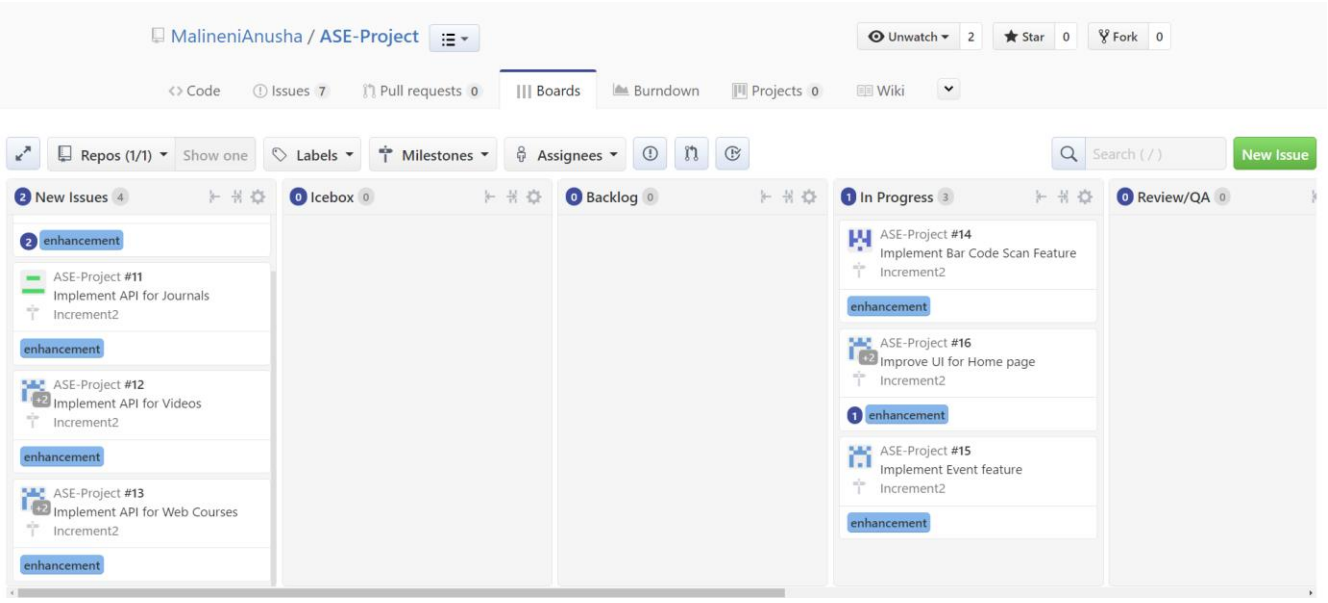
# 3.Project Plan

1. **Zen- Hub Screenshot:**
   For the second increment, we have issues regarding improvements of UI in home page, implementing Slide share API, Barcode scanner API.




2. **Project Timeline, Members, Task Responsibility**

Below is the screenshot describing the new issues and issues which are in progress state, icebox state and all other states too.



## 3. Burn-Down chart

Burn-Down chart is created for the above described issues as shown below:

Increment2

| Repository | Issues | Story Points |
|---|---|---|
| ASE-Project | #8 Creating a home page | 2 |
| ASE-Project | #16 Improve UI for Home page | 1 |
| ASE-Project | #15 Implement Event feature | Not estimated |
| ASE-Project | #14 Implement Bar Code Scan Feature | Not estimated |
| ASE-Project | #13 Implement API for Web Courses | Not estimated |
| ASE-Project | #12 Implement API for Videos | Not estimated |
| ASE-Project | #11 Implement API for Journals | Not estimated |
| ASE-Project | #9 Implement SlideShare API | Not estimated |

# 4. Second 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.

- **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.

- **GeoLocation API:**

  Implemented geo location API to extract the current location of users.

- **Bar Code plugin:**

  Implemented the bar code plugin to scan the bar codes.

**API's to be used**

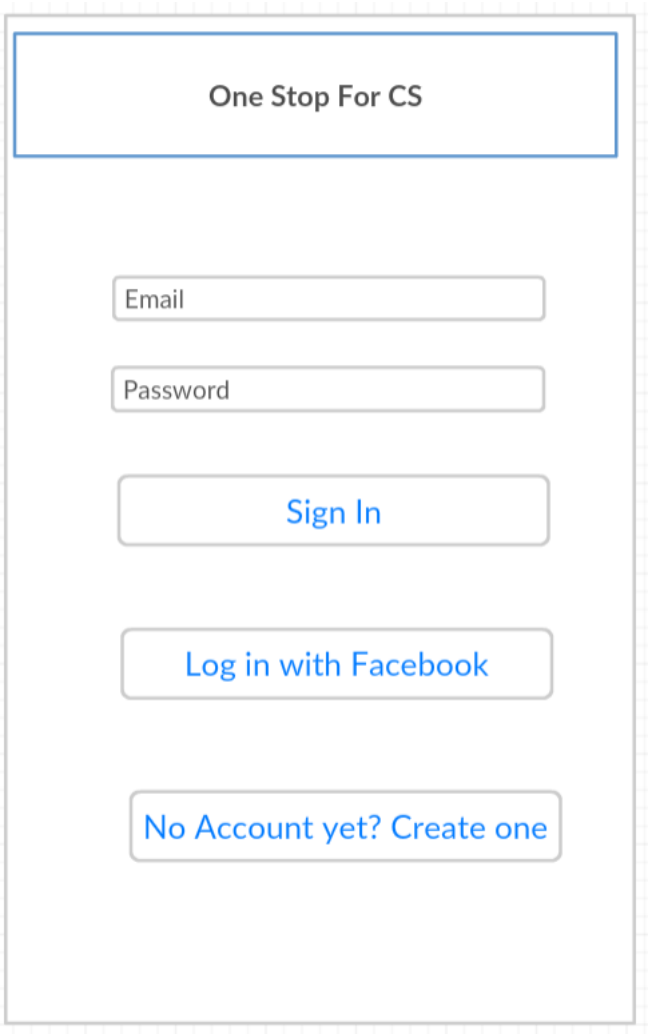
We will be using the below mentioned API's in the next increments to implement the dynamic search for technologies.

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

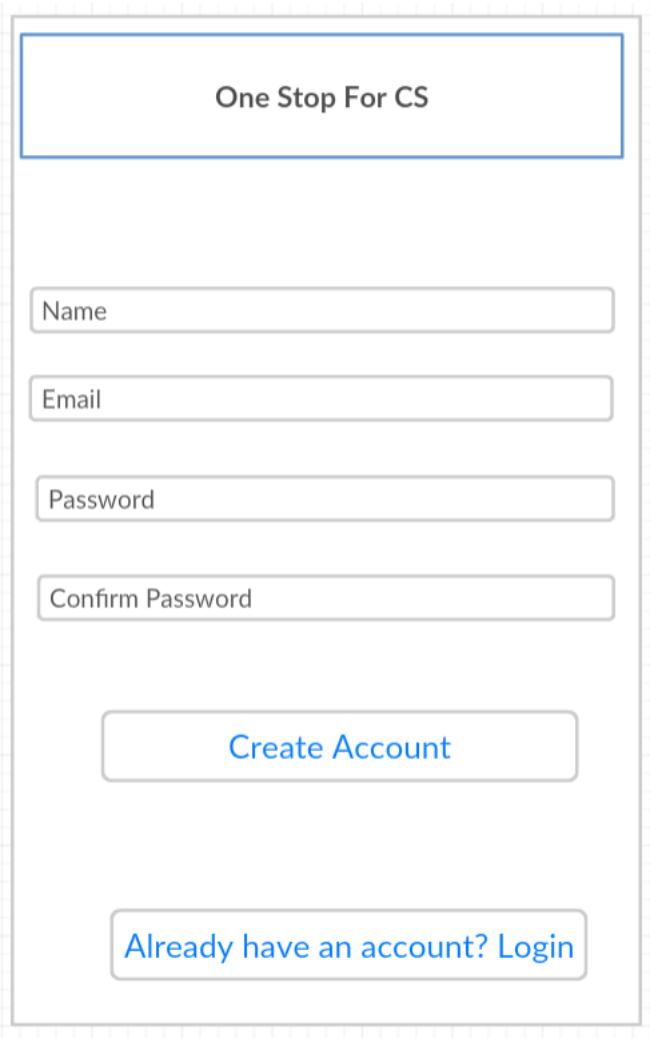
## 4.2 Detail Design of Features:

### 4.2.1. Wireframes

### Login Page



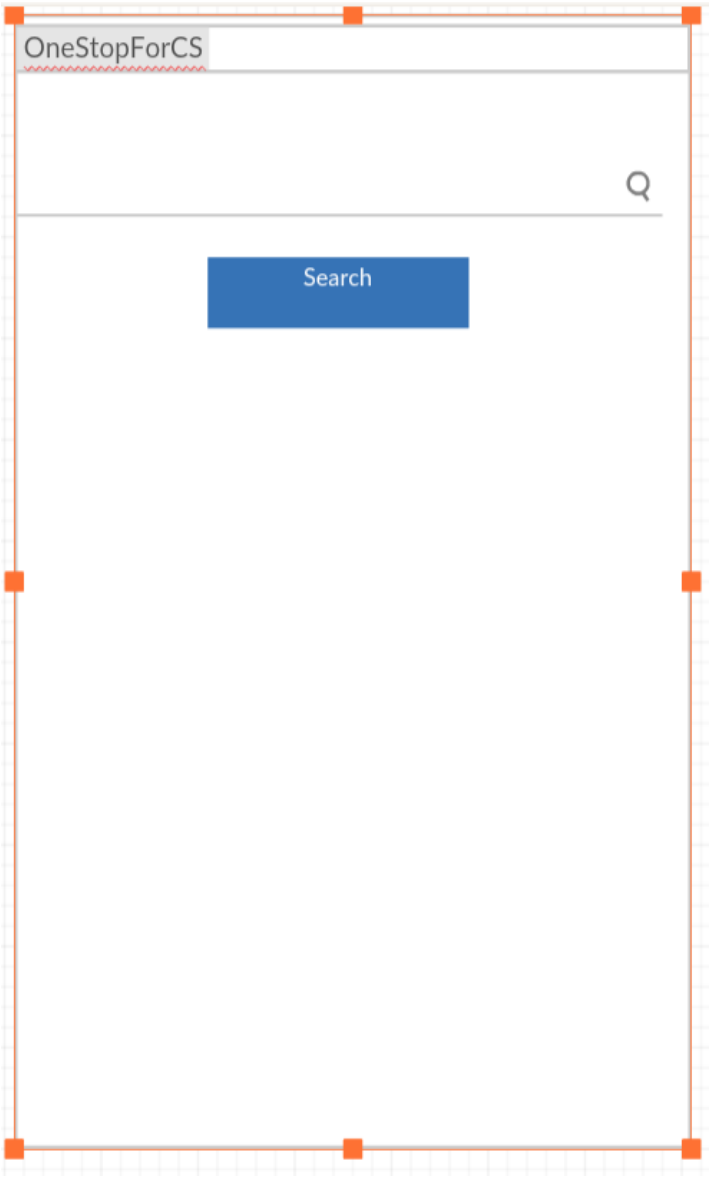
## Registration Page

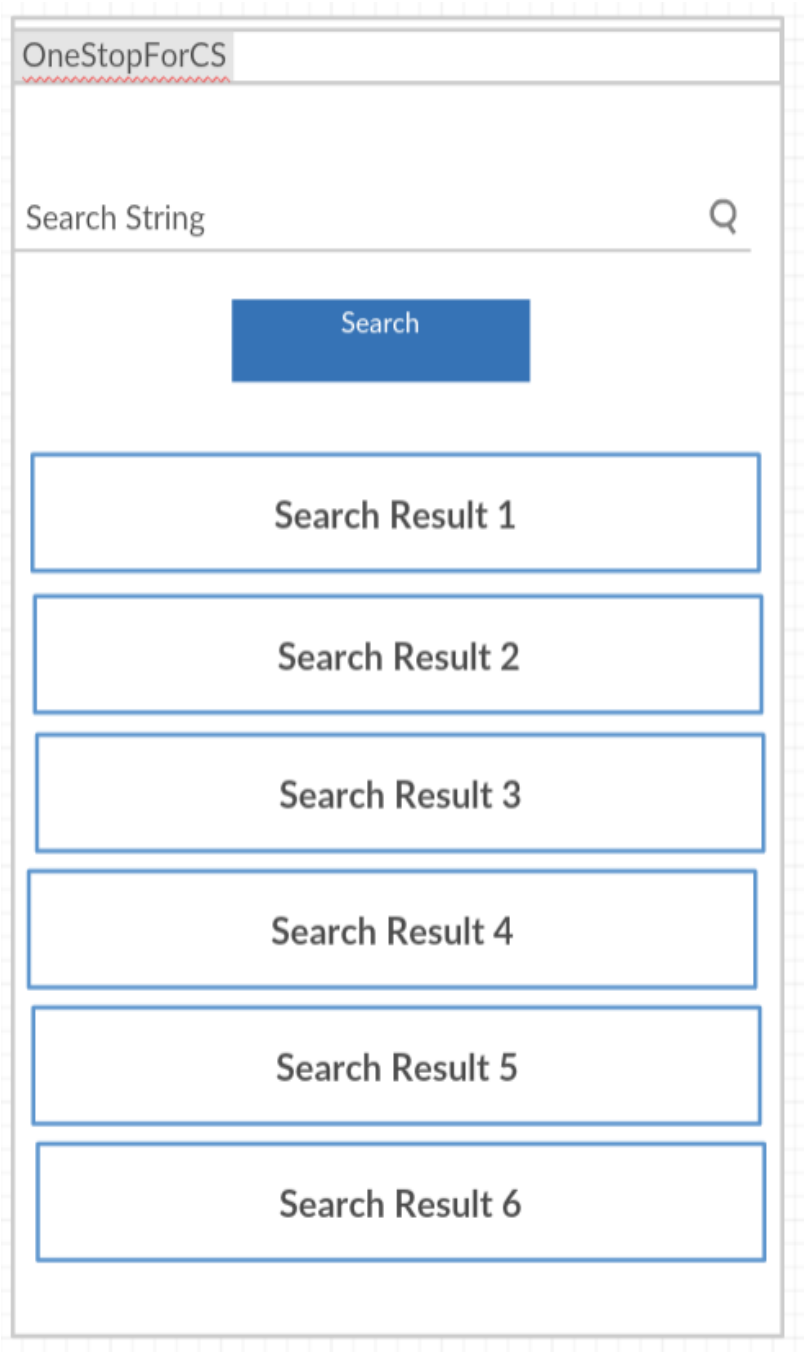


# Home Page

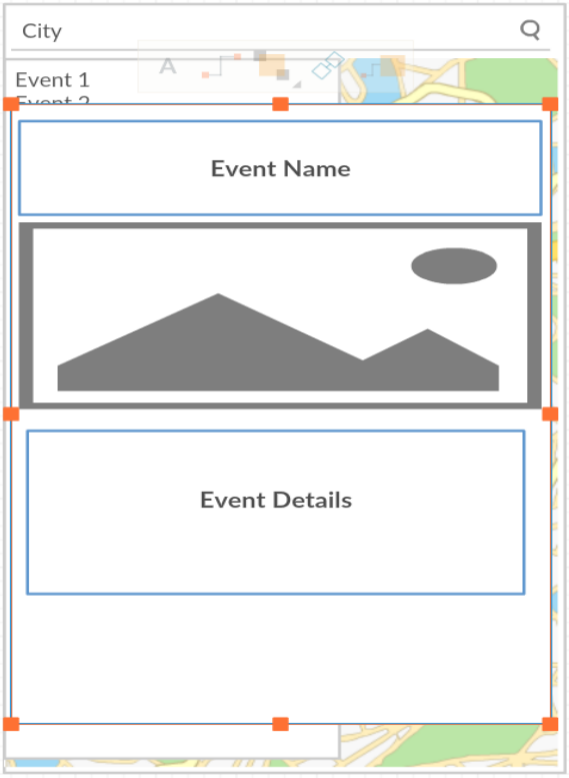
OneStopForCS
Presentations
Videos
Events
Bar code Scanner
Journal Papers
Online Courses

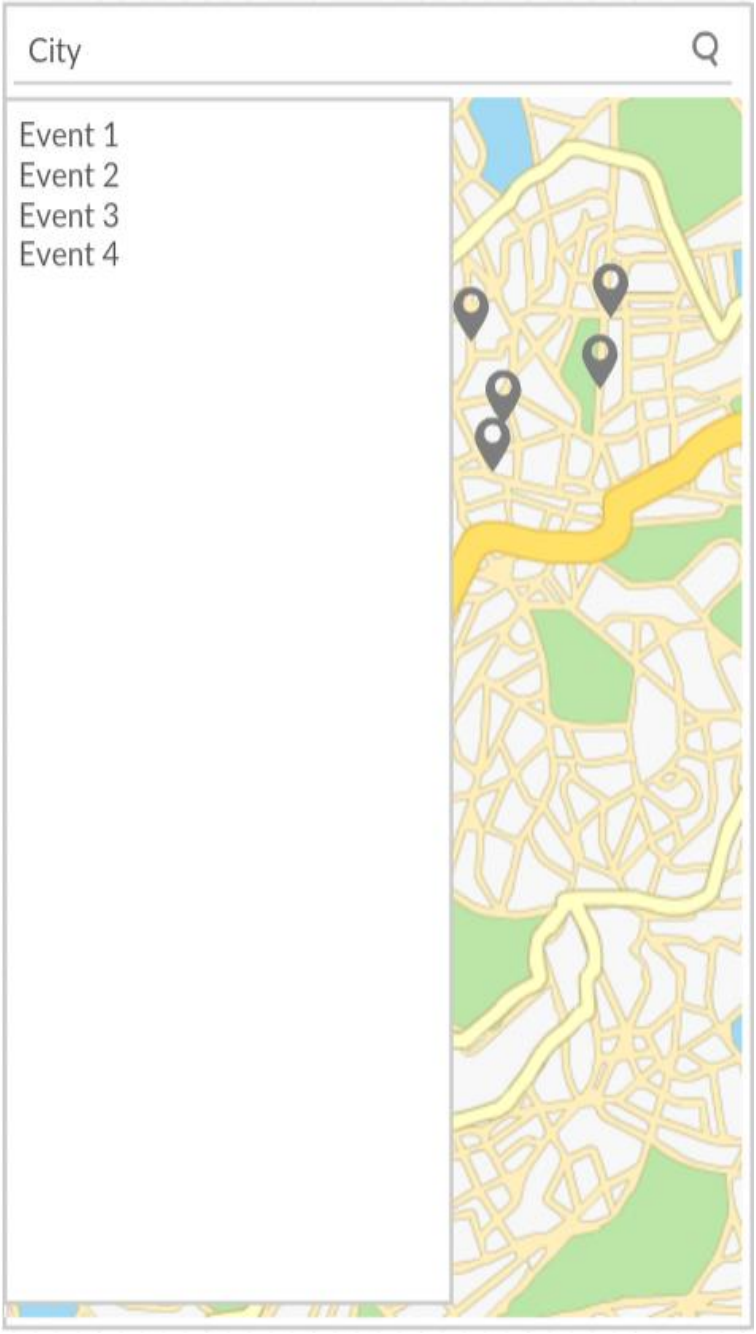
## Wireframe for SlideShare Search page



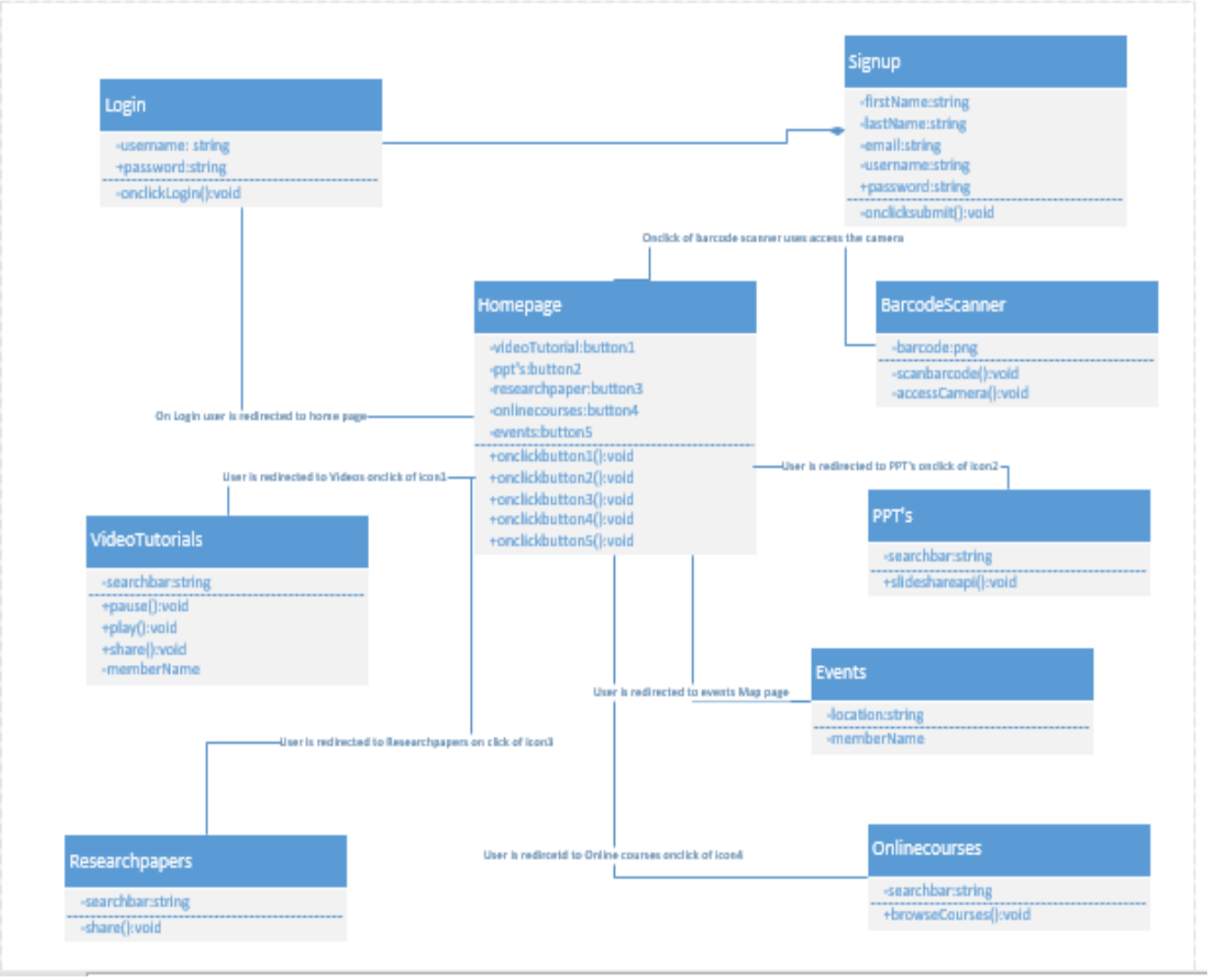

OneStopForCS
Search String
Search
Search Result 1
Search Result 2
Search Result 3
Search Result 4
Search Result 5
Search Result 6

# Wireframe for Eventful API

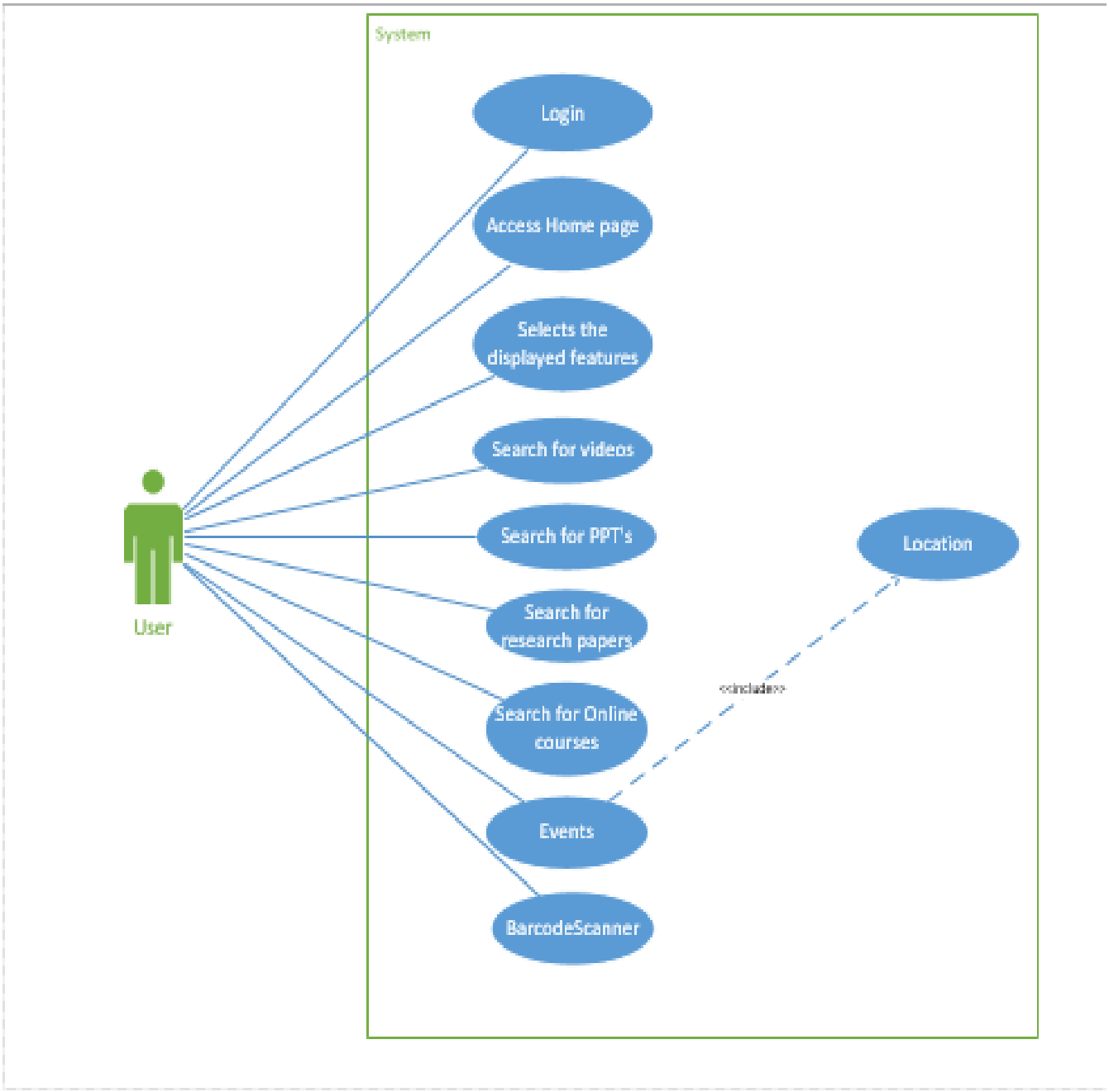



City
Event 1
Event 2
Event 3
Event 4

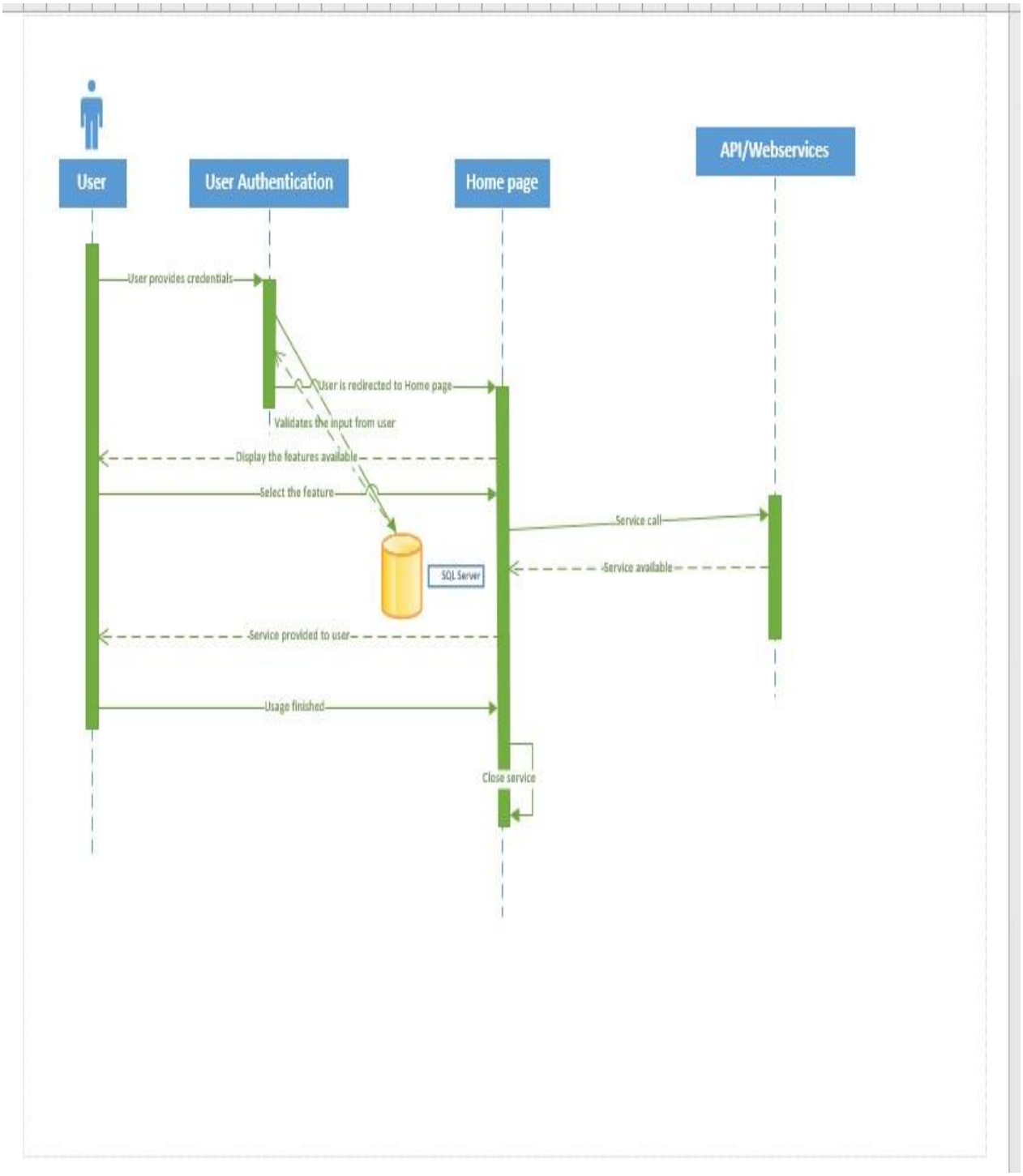
### 4.2.2 Class Diagram:



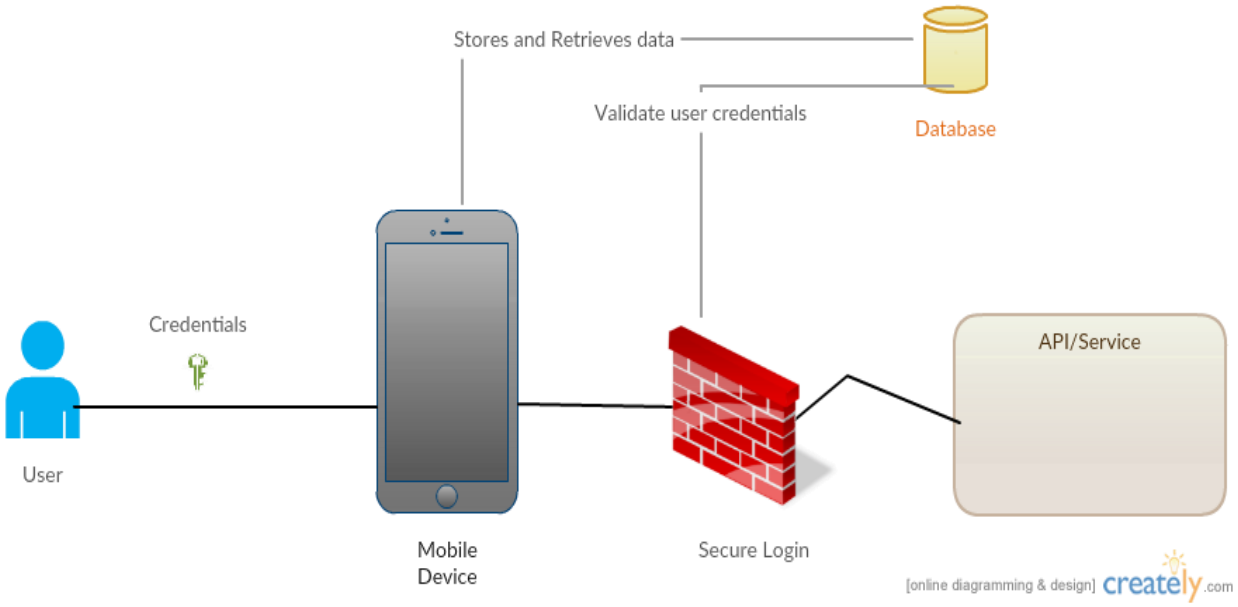
### 4.2.3 Use Case Diagram:



### 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

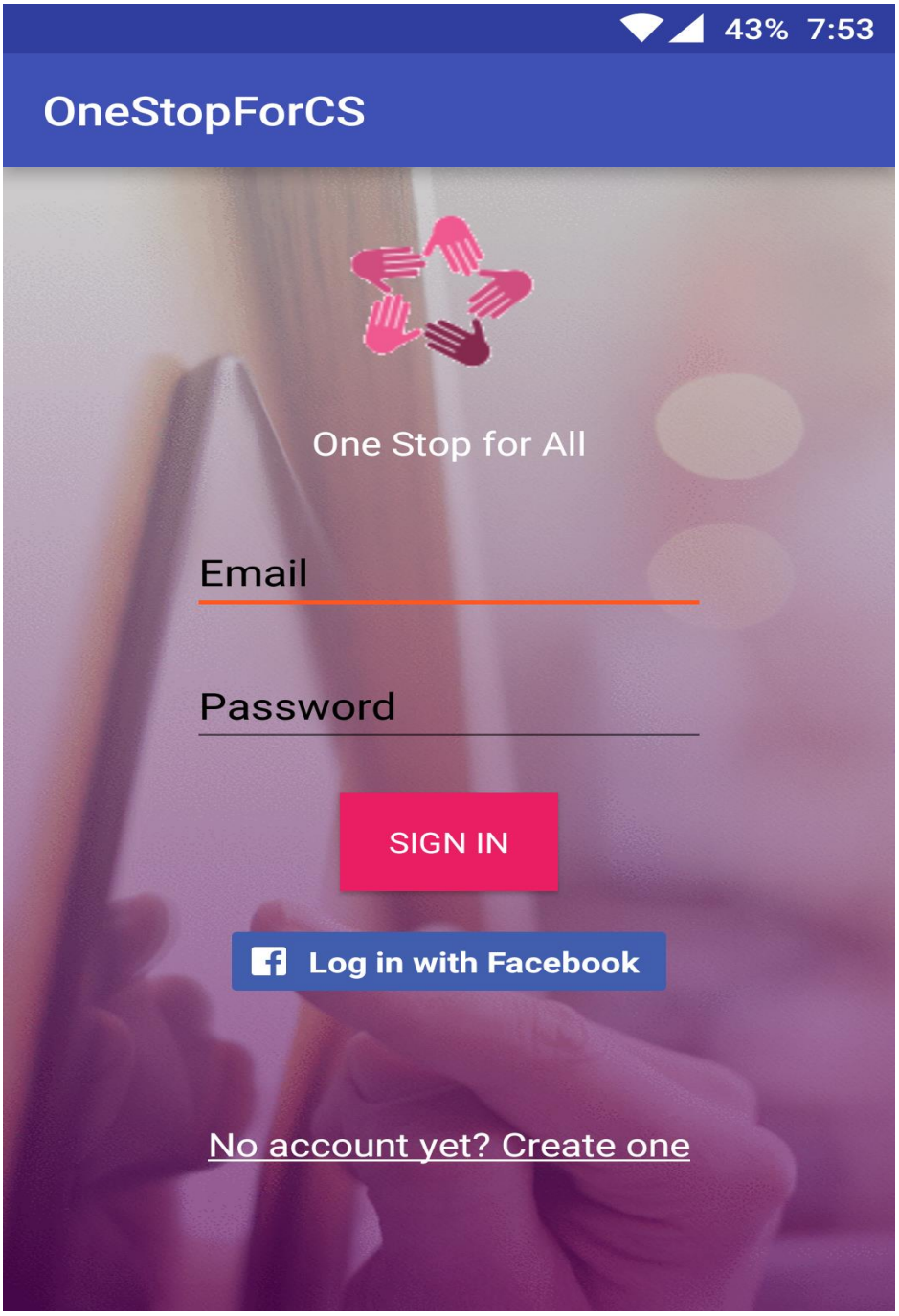
- **Test Cases for Login and Signup page:**

| 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 |

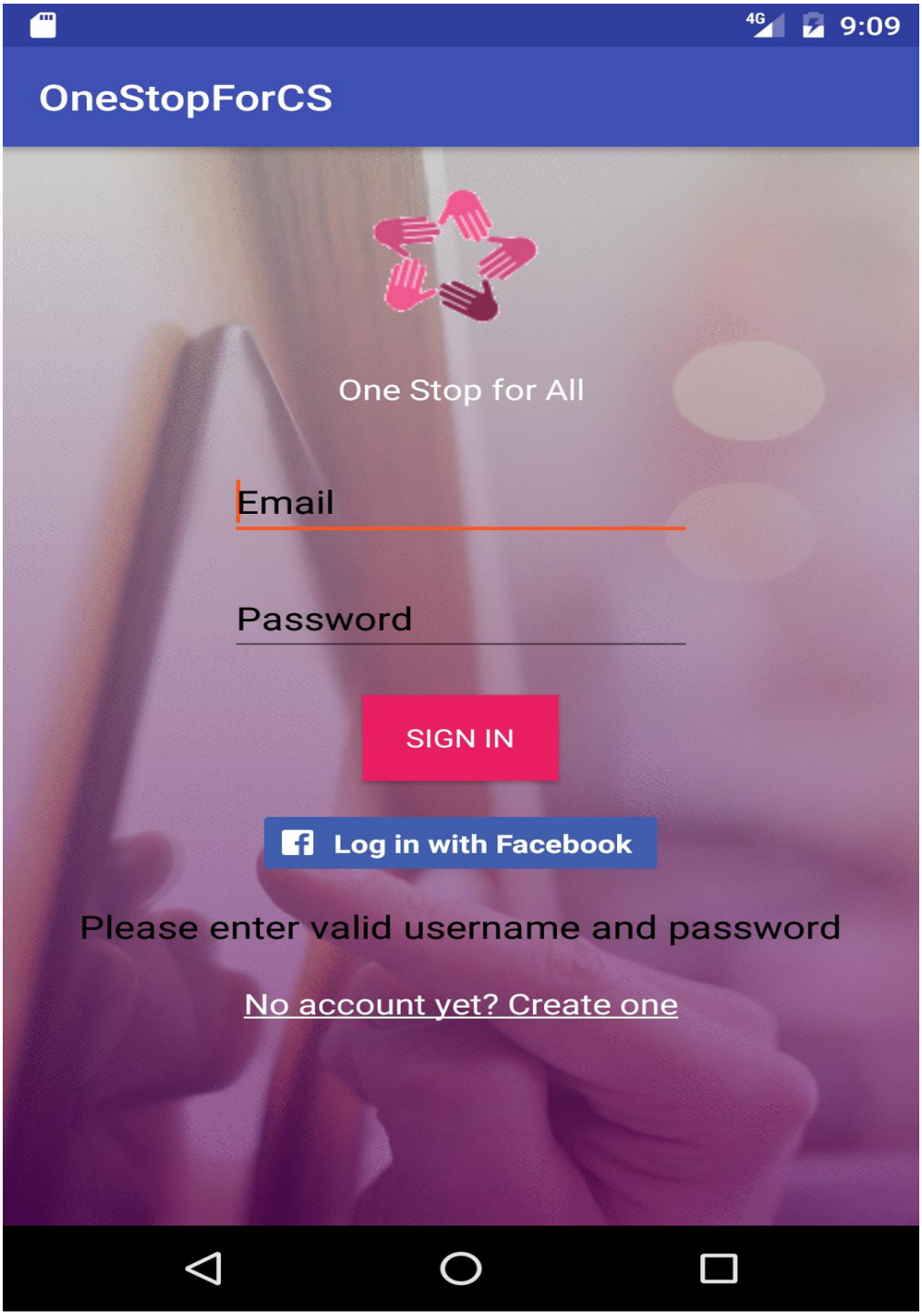
# 5. Implementation and Deployment

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

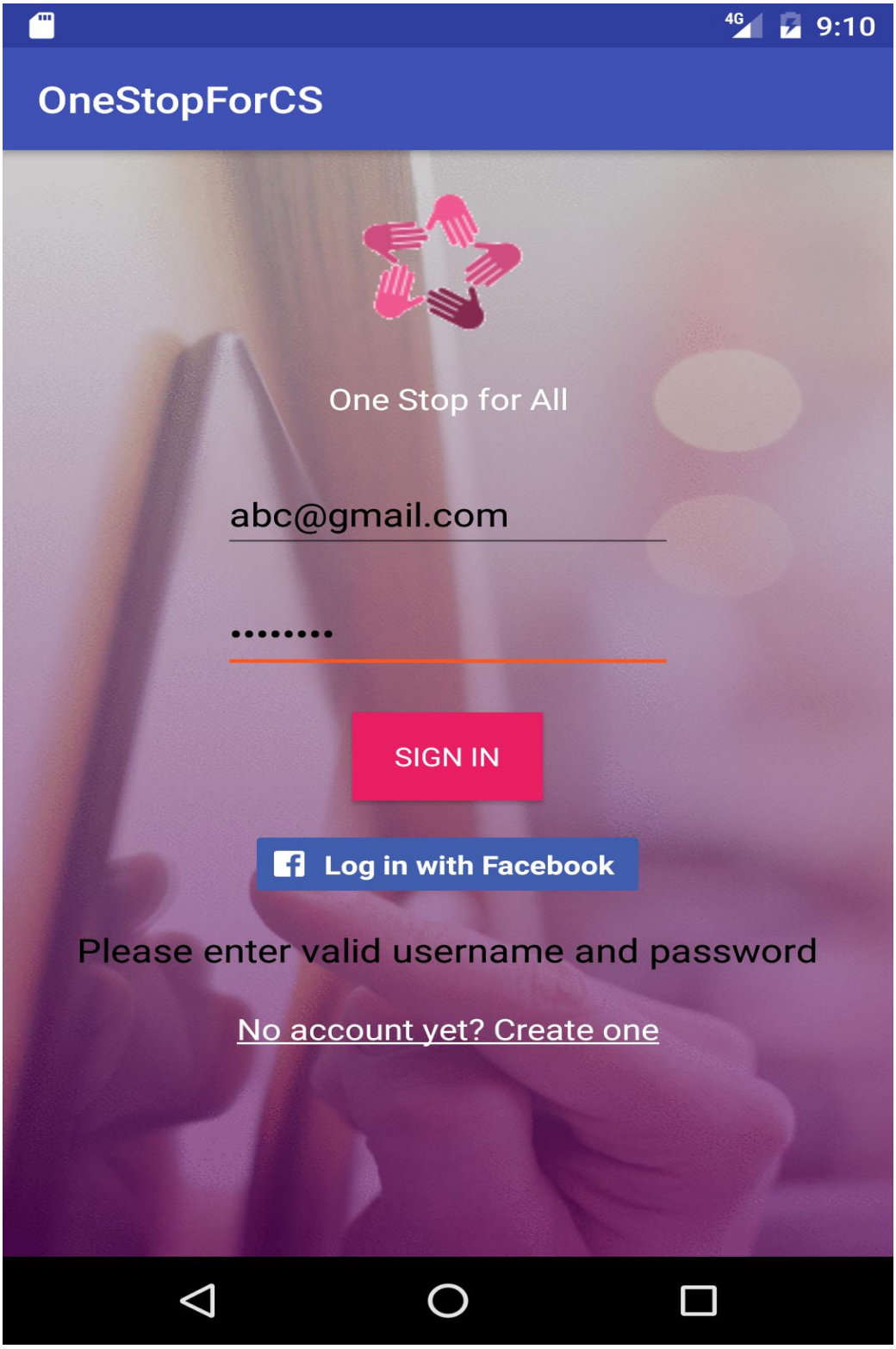
5.1 Login page for the application "OneStopForCS" as shown below :



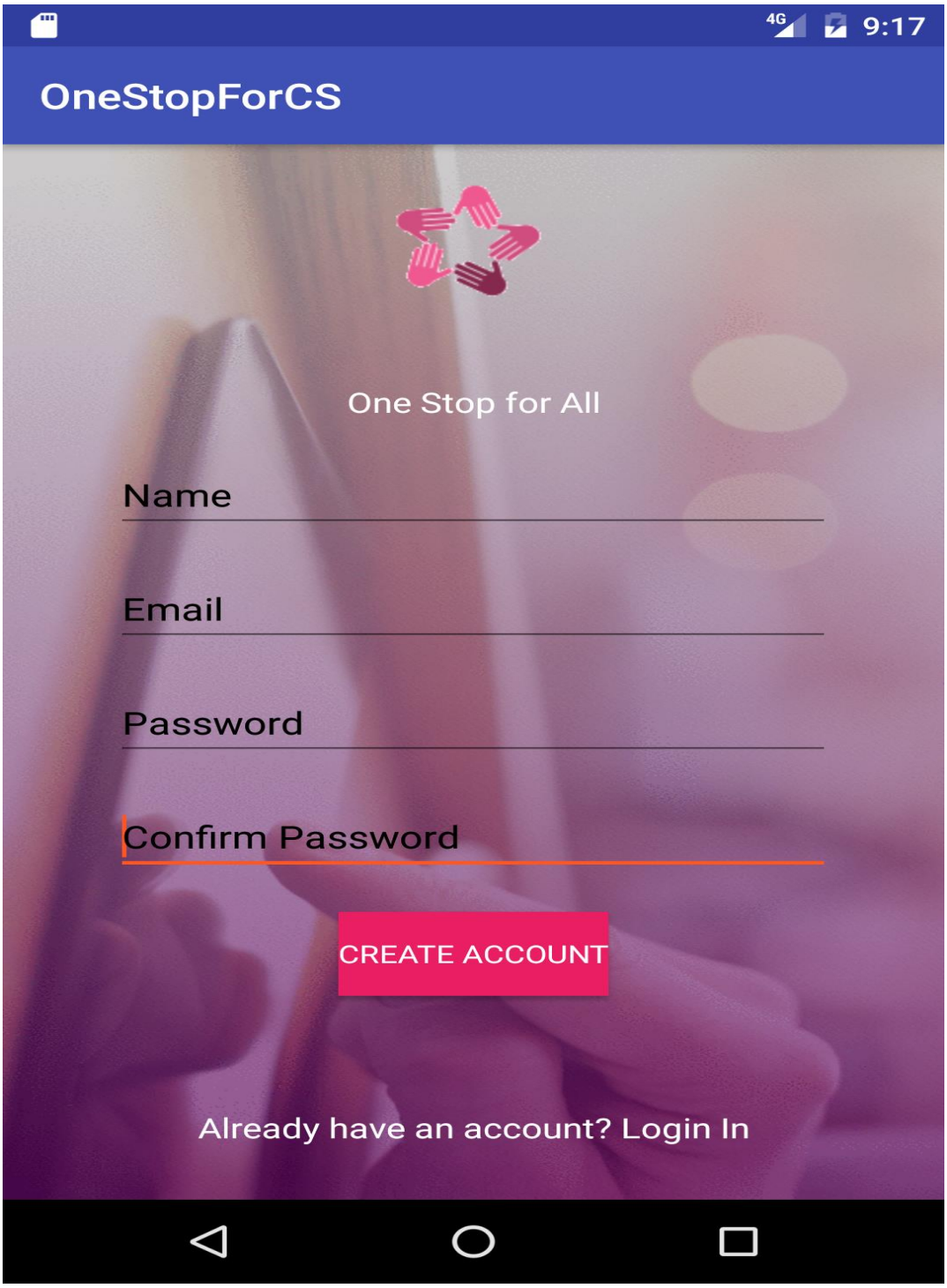
5.2 Application will prompt an error message if both the Email field and Password fields are empty.



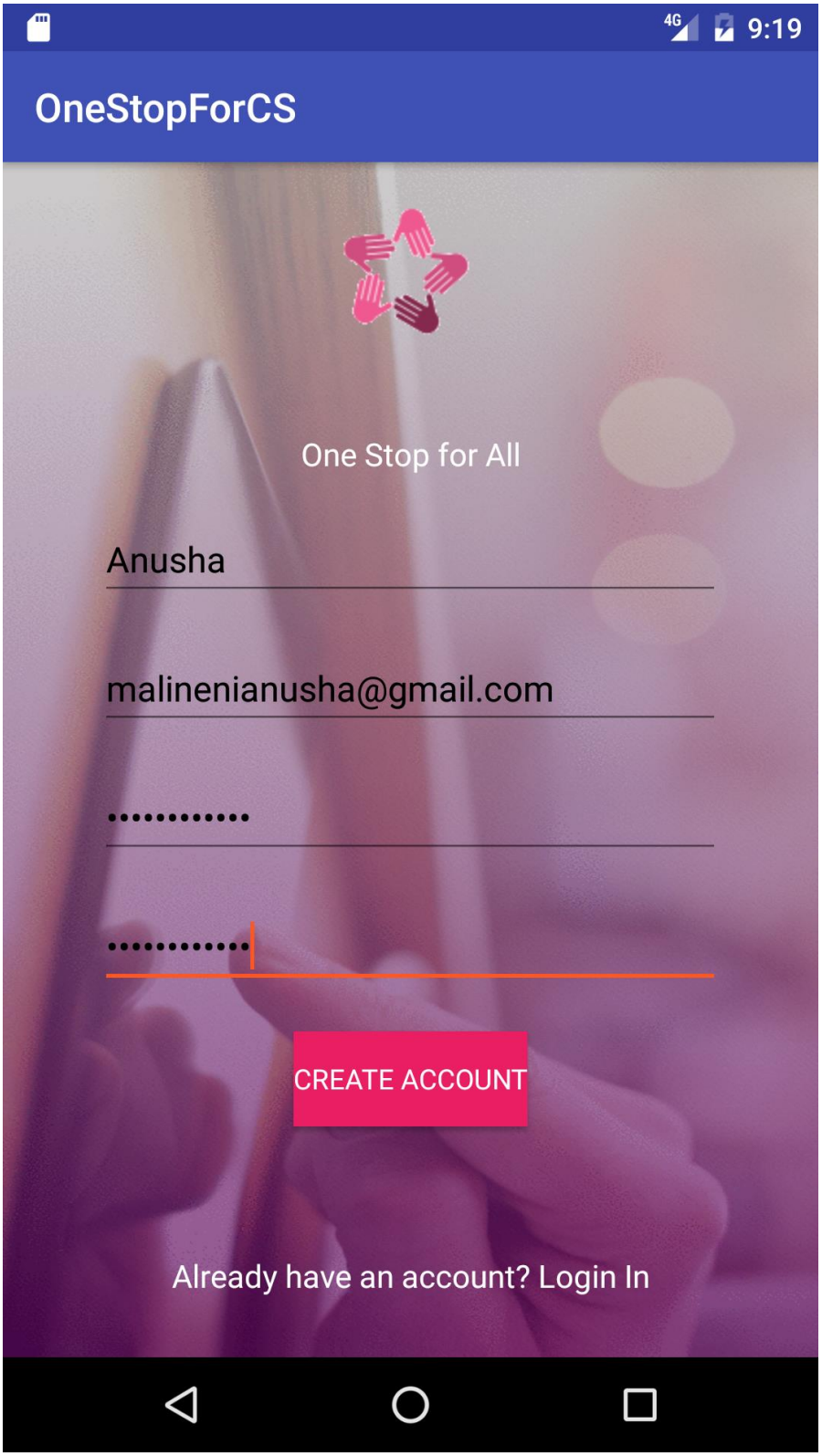
5.3 Also application will prompt an error message if user enter wrong email or password.



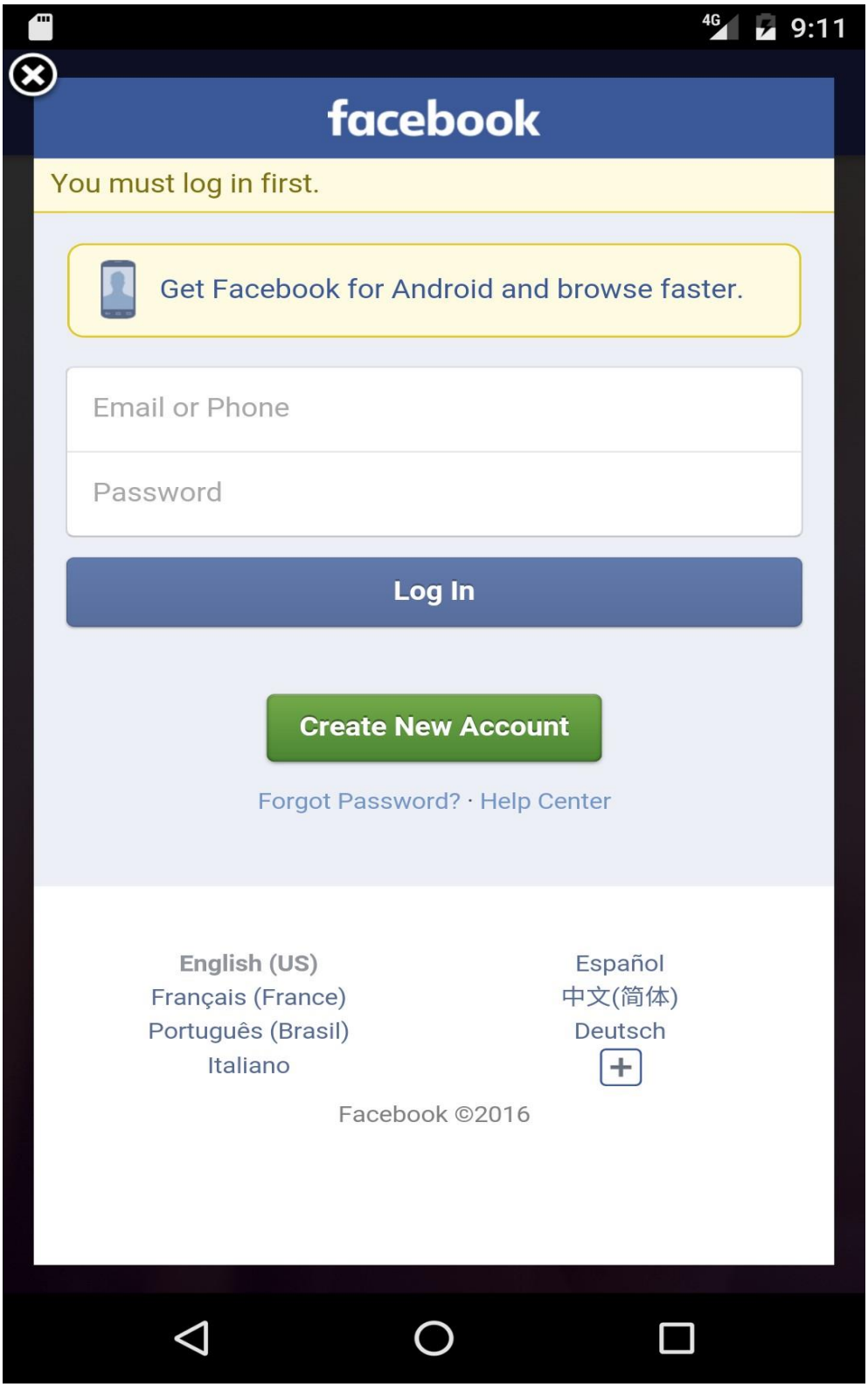
5.4 A new user can register by clicking on ‘No account yet? Create one’ button. By clicking on this button, application will be redirected to registration page.



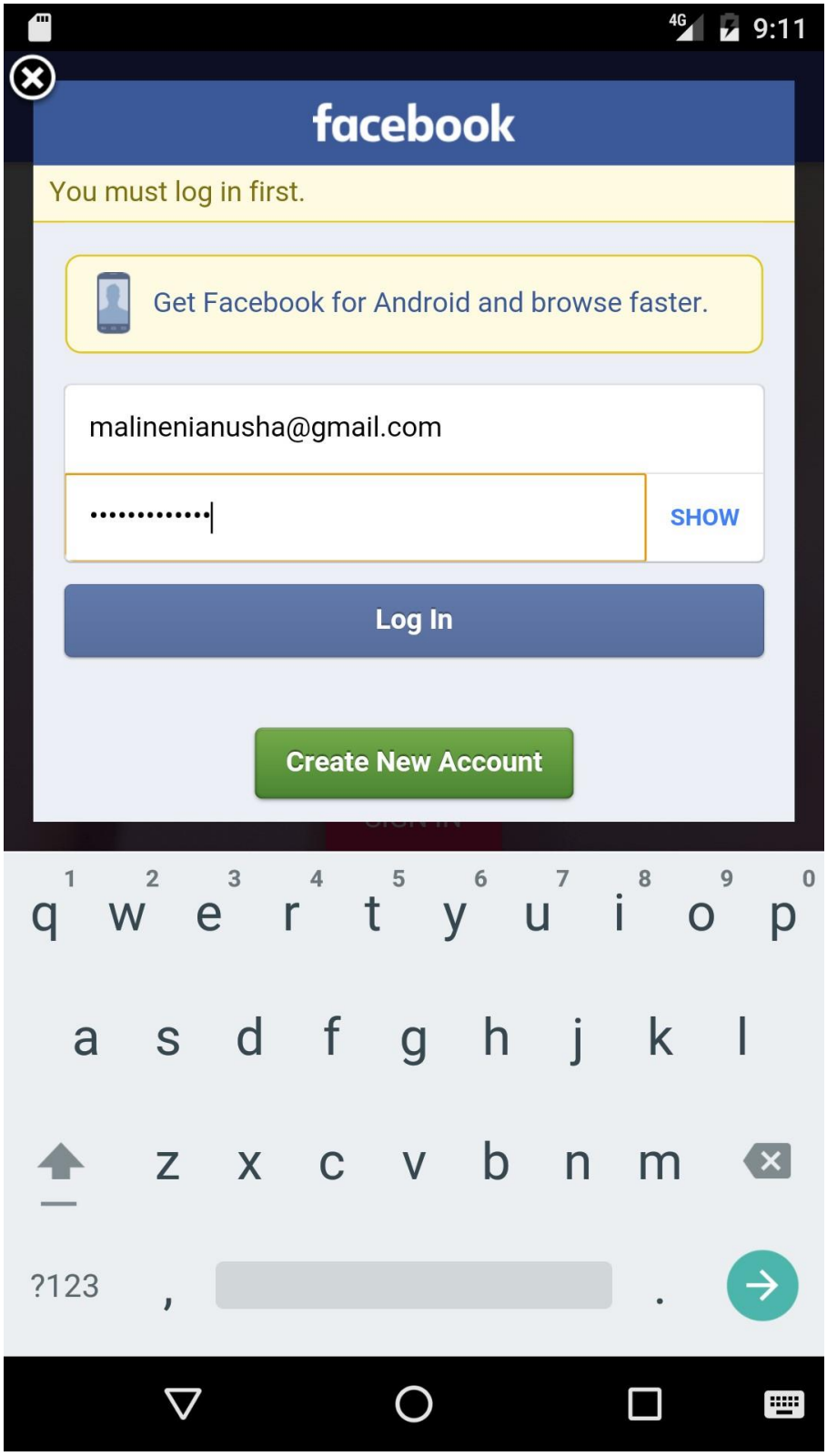
5.5 User must enter name, email id, password and confirm password fields to complete the registration.



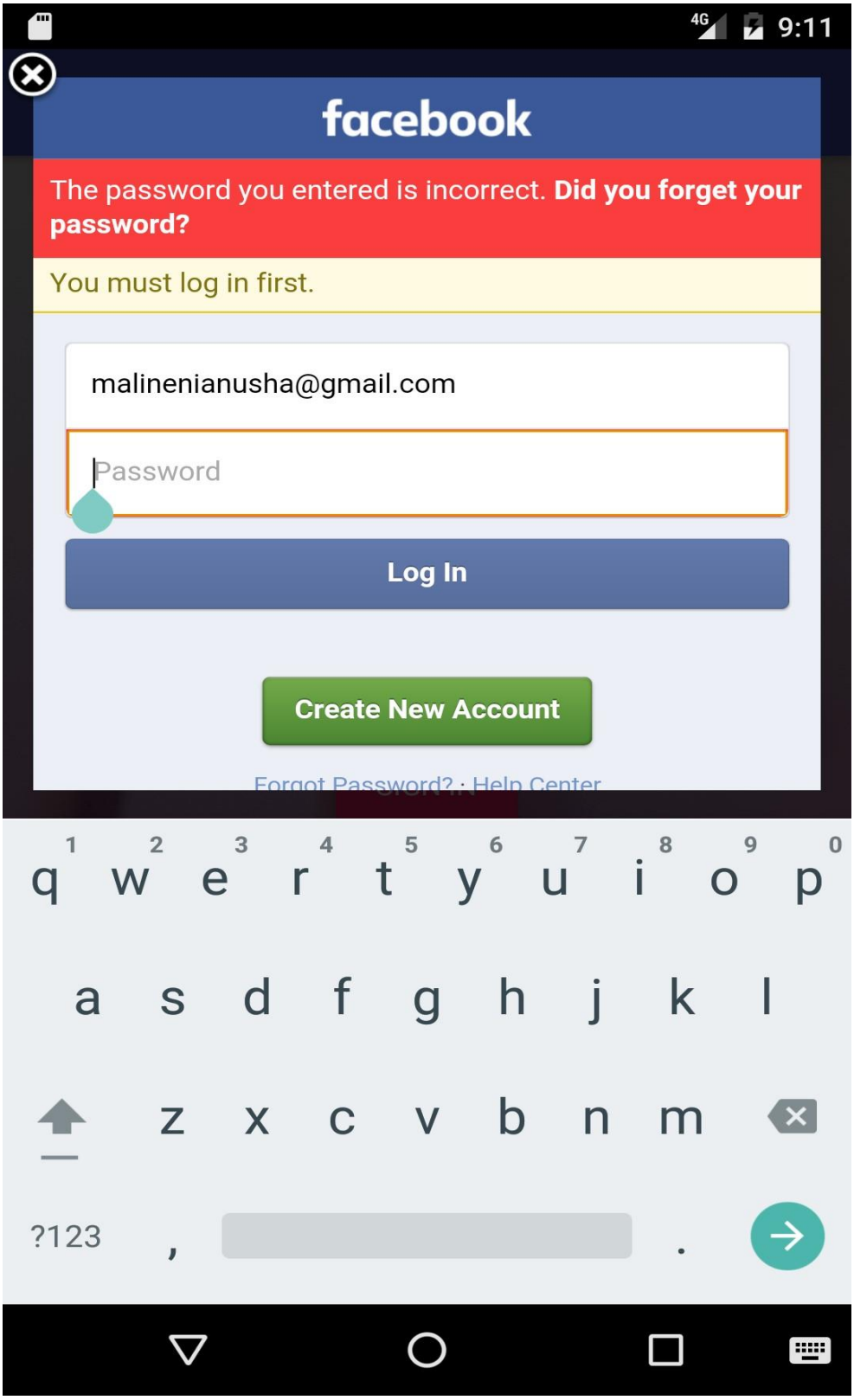
5.6 From the login page, user can also login through Facebook login. By clicking on 'Log in with Facebook button' application will be redirected to Facebook log in page.



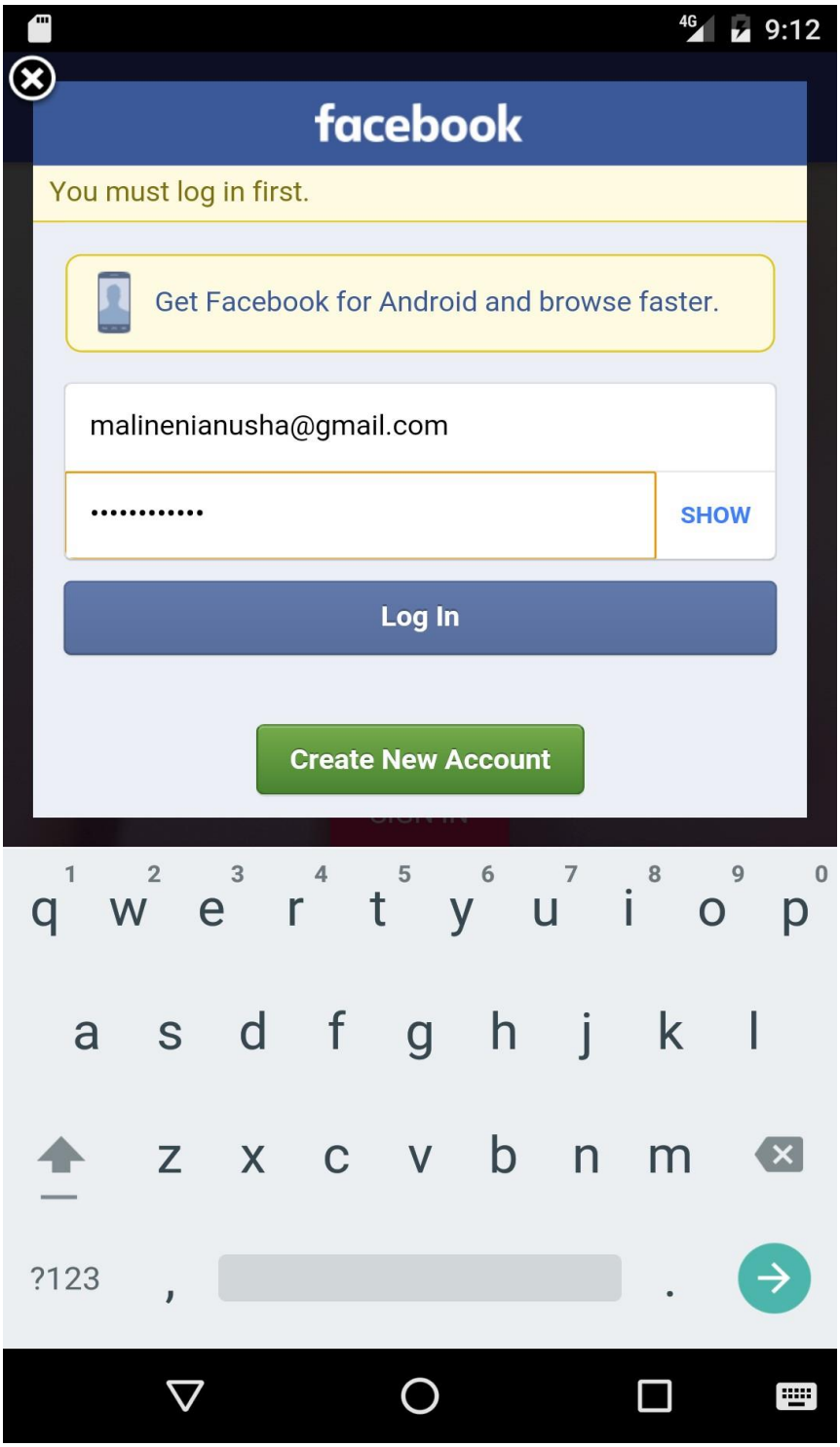
5.7 User must enter his/her Facebook login details. User must enter correct credentials of Facebook to login to application.



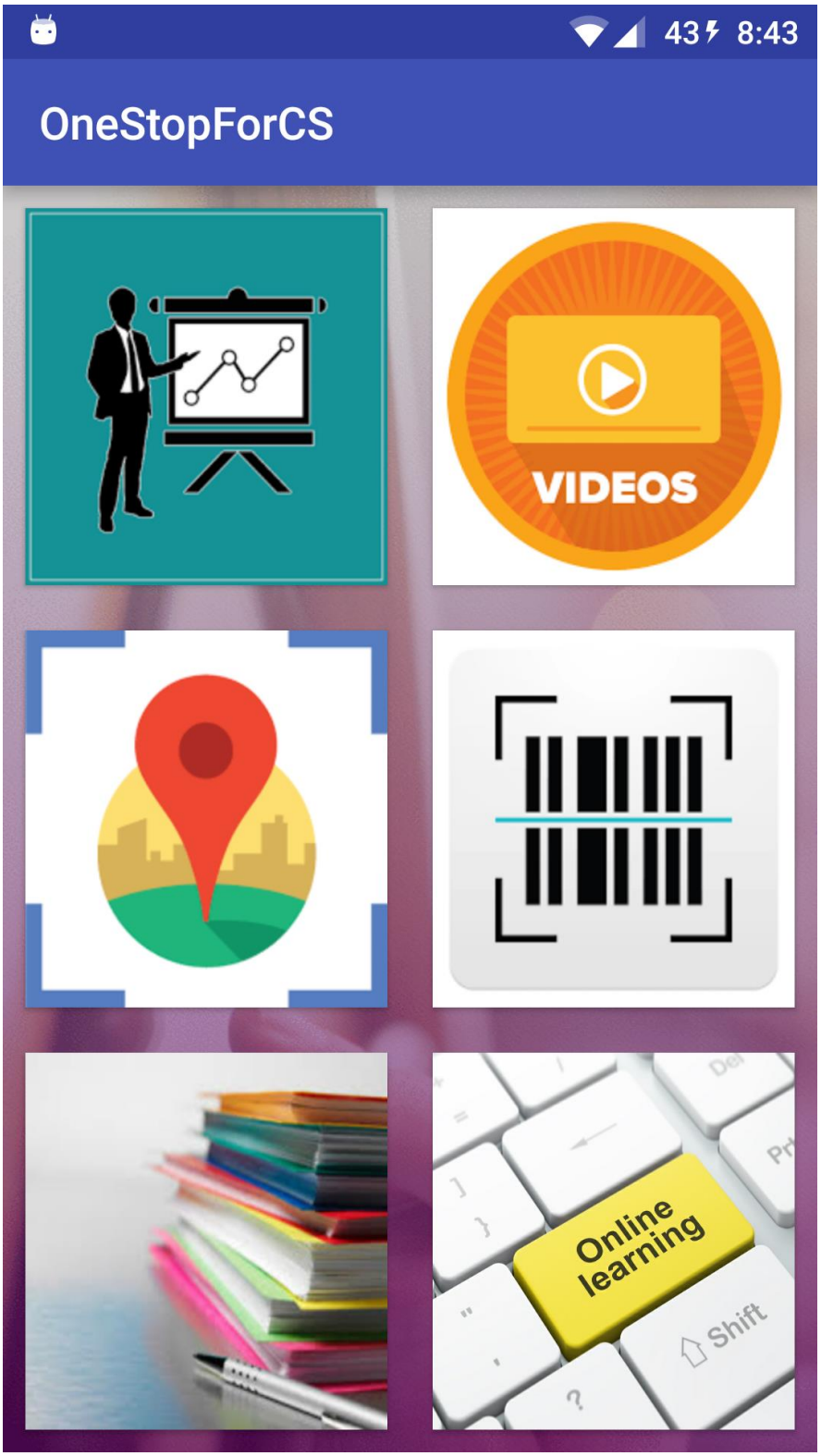
5.8 Following error will prompt if the user enters wrong Facebook login details.



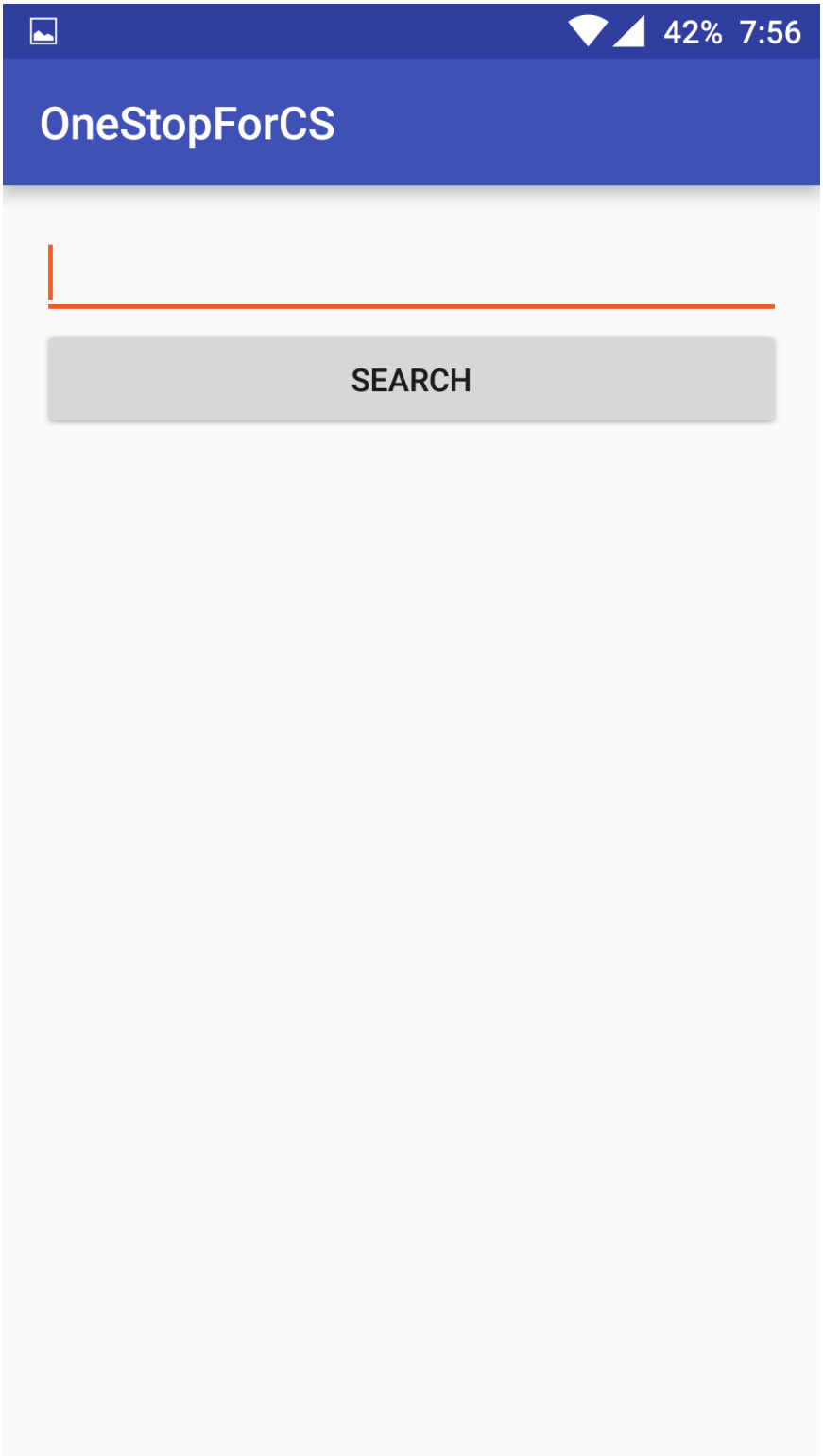
5.9 By entering the correct Facebook credentials, application will be redirected to home page.



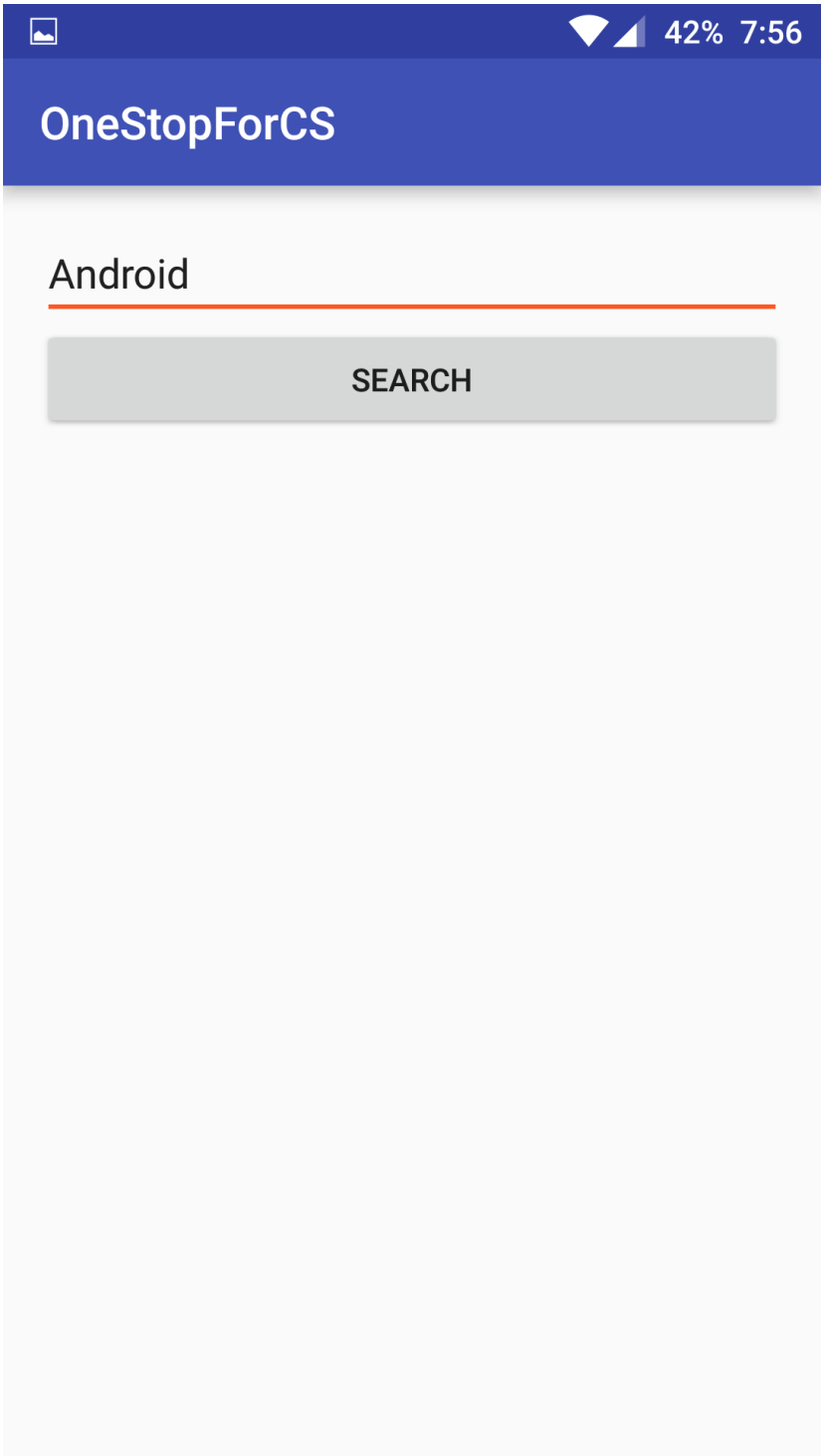
5.10 Following is the home page of our application. User will be redirected to home page by logging into the system either through application login or through Facebook login.



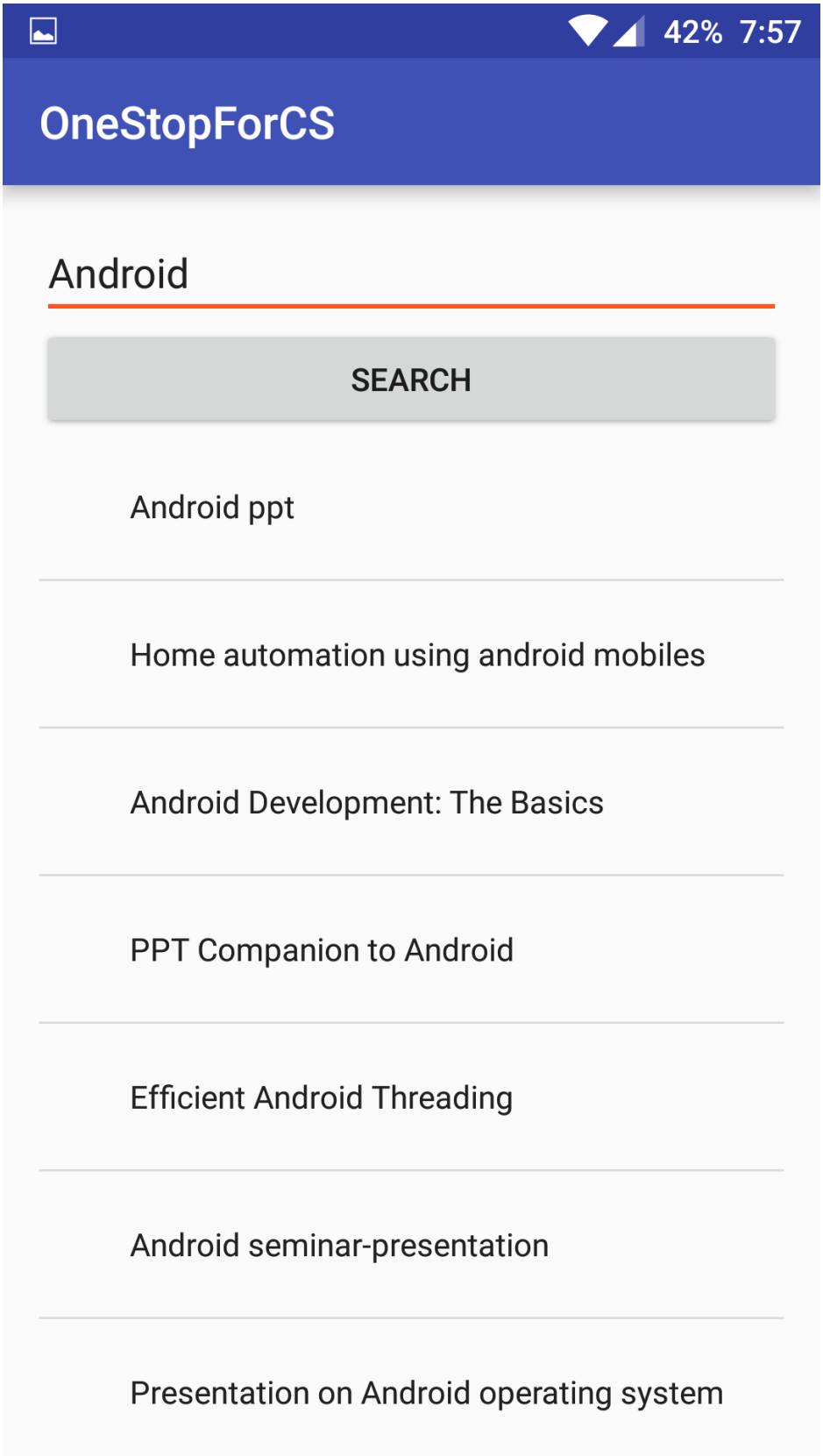
5.11 On Clicking the PPT button, user is navigated to SlideShare Search Page where user can search PPT's.



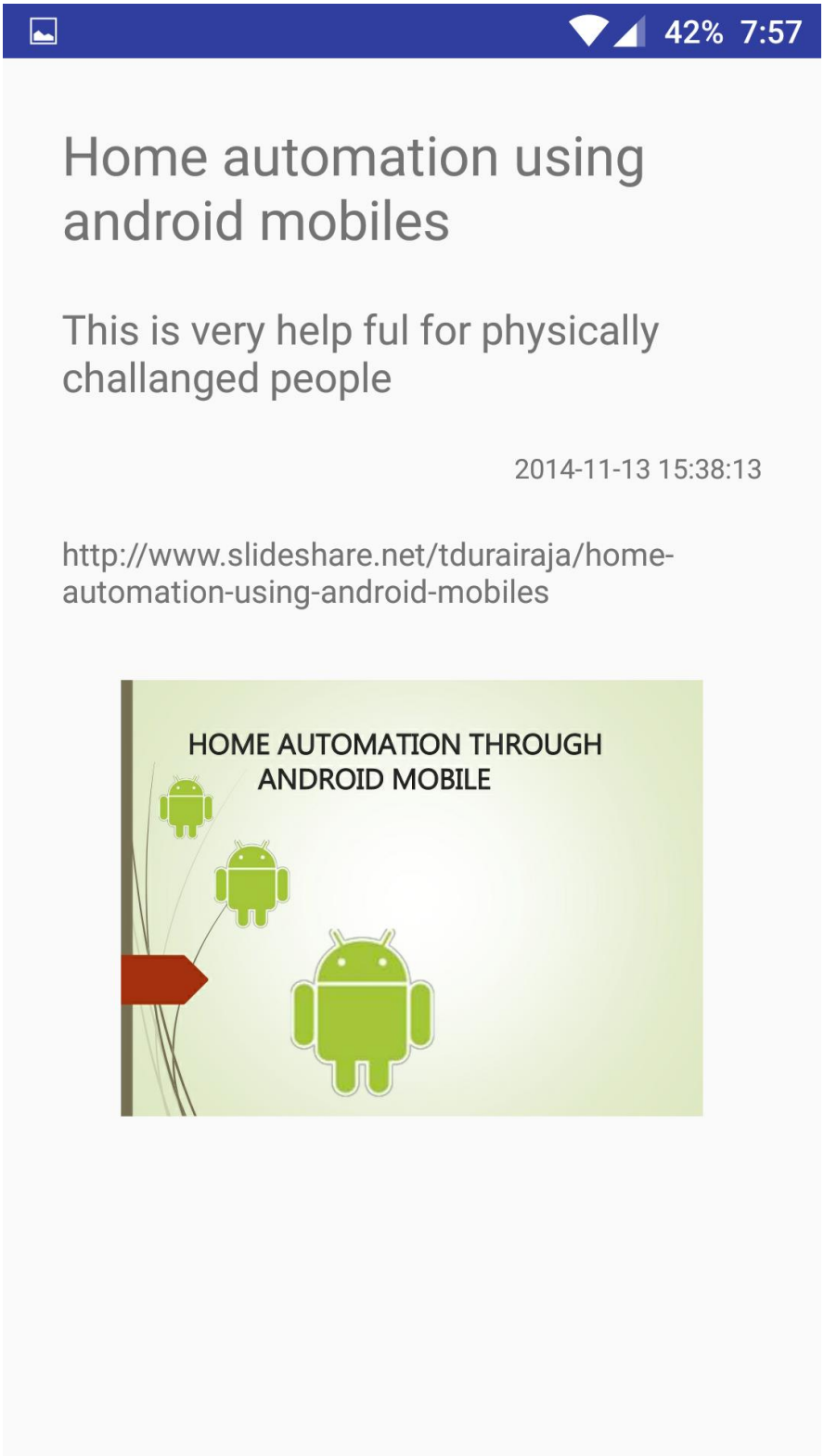
5.12 User search for PPT on Android topic



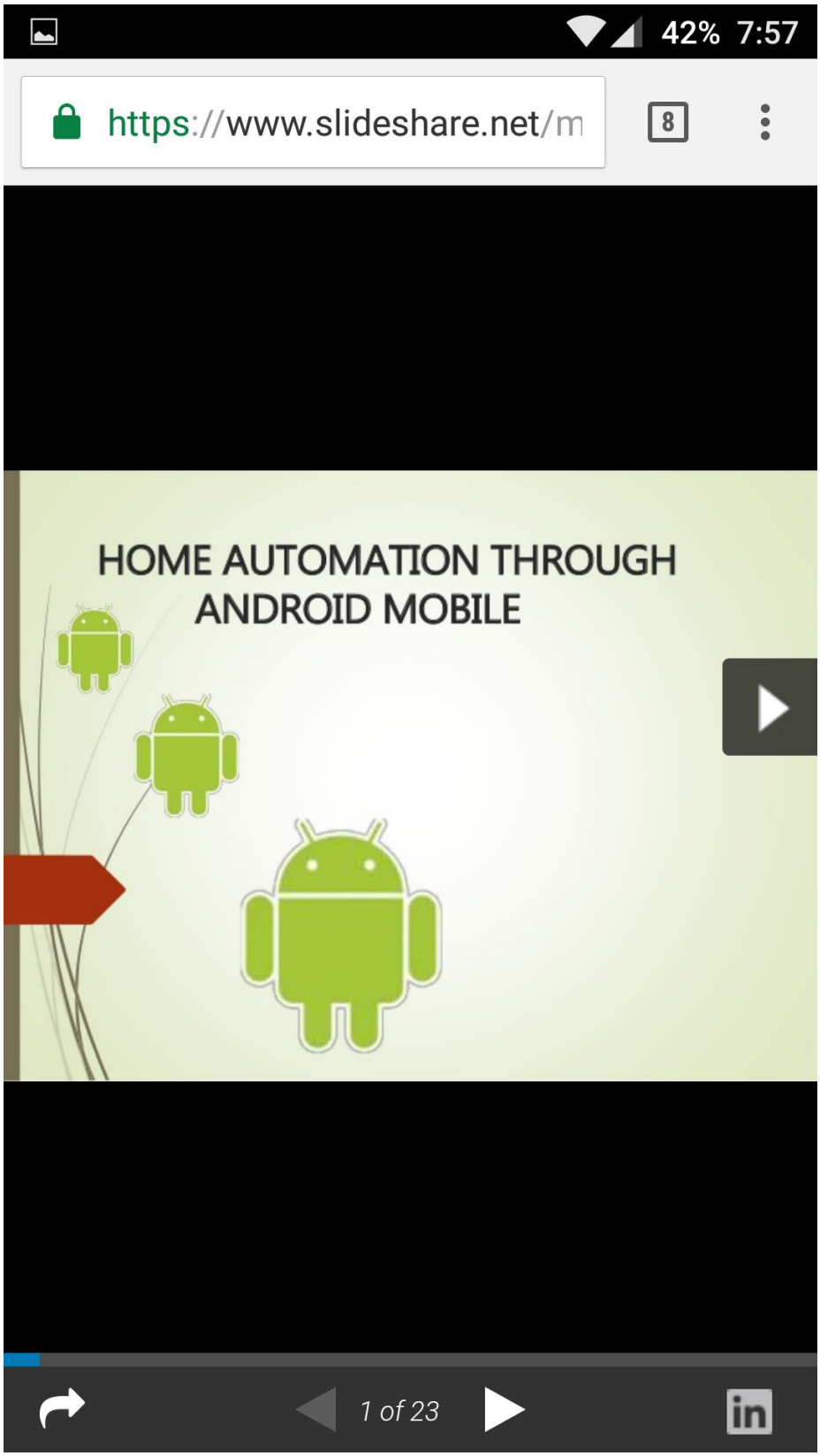
5.13 On click of search button, results are shown below.

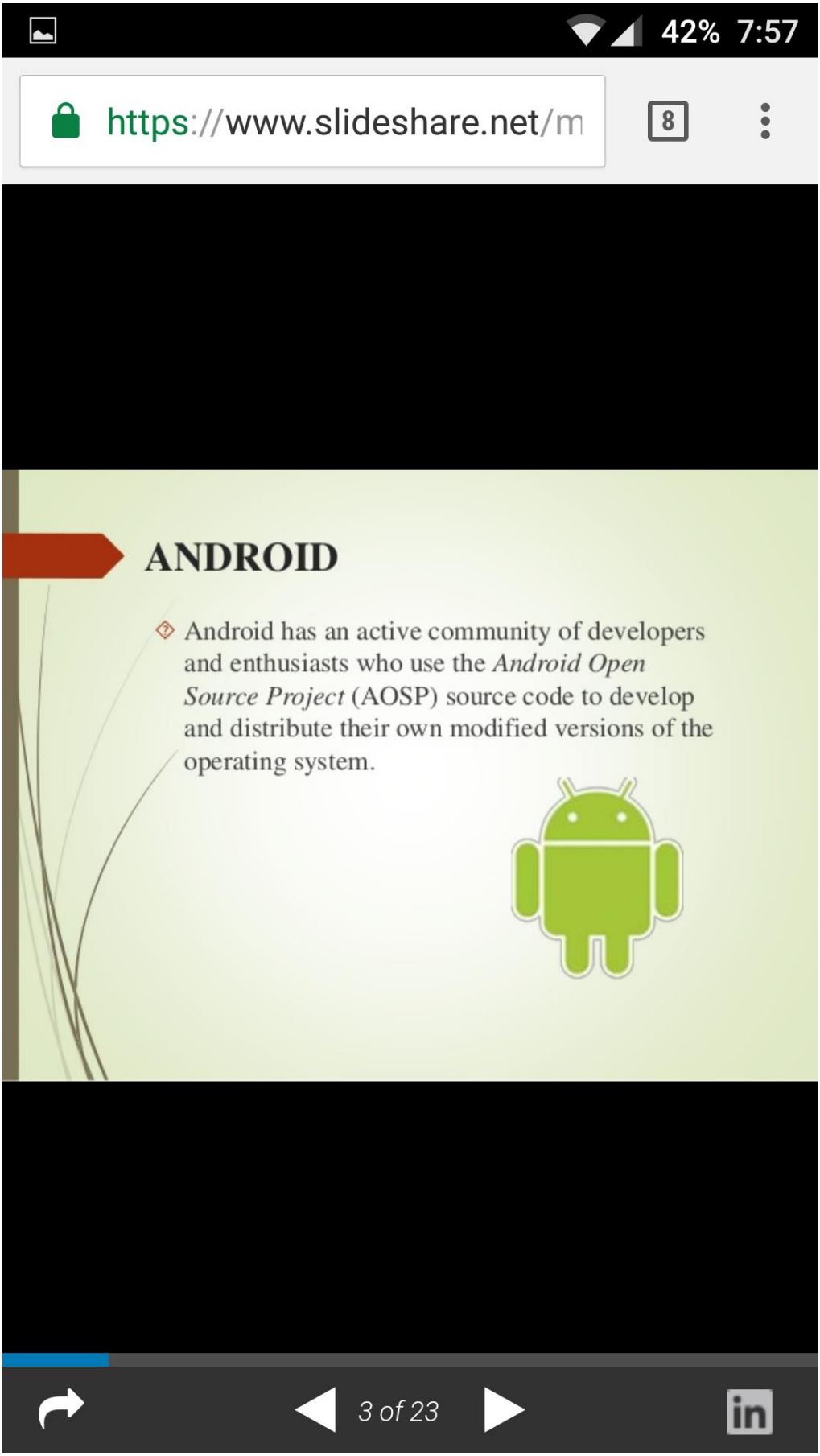


5.14 On clicking any of the search results , we will be redirected to SlideShare PPT.



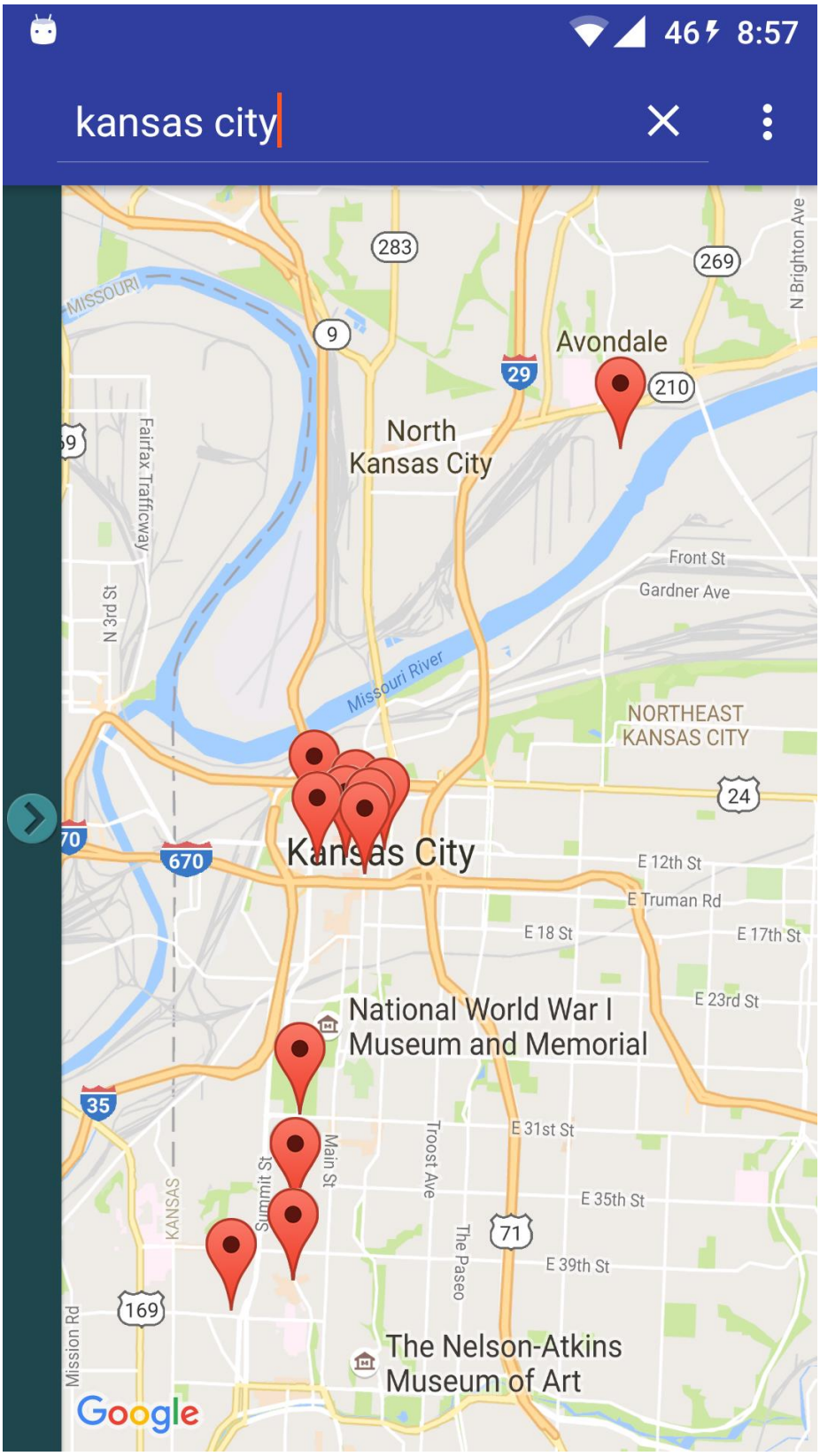
5.15 On clicking the PPT icon, user is redirected through browser to open PPT.

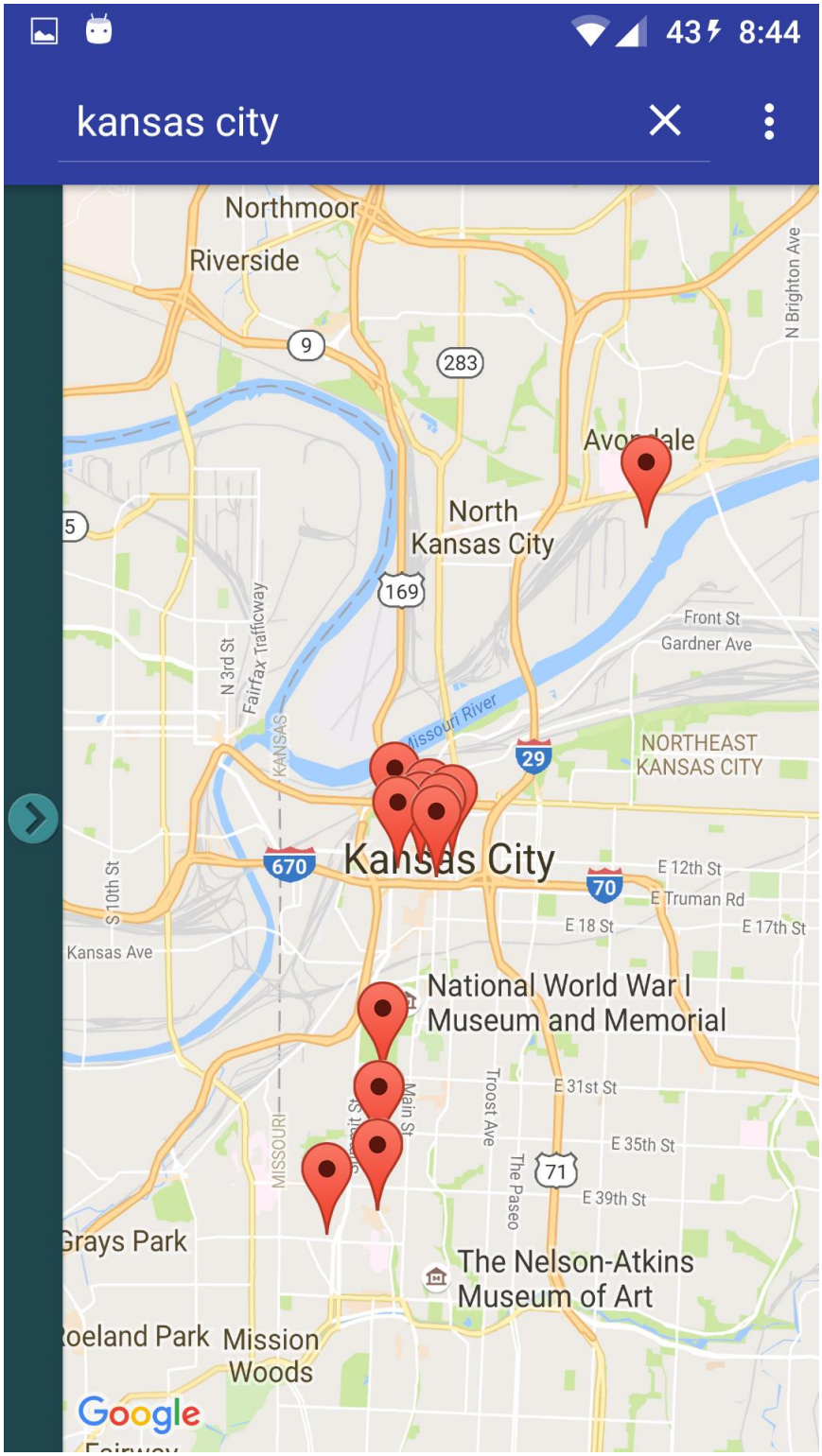



42% 7:57
https://www.slideshare.net/m
8
ANDROID
Android has an active community of developers and enthusiasts who use the *Android Open Source Project* (AOSP) source code to develop and distribute their own modified versions of the operating system.
3 of 23

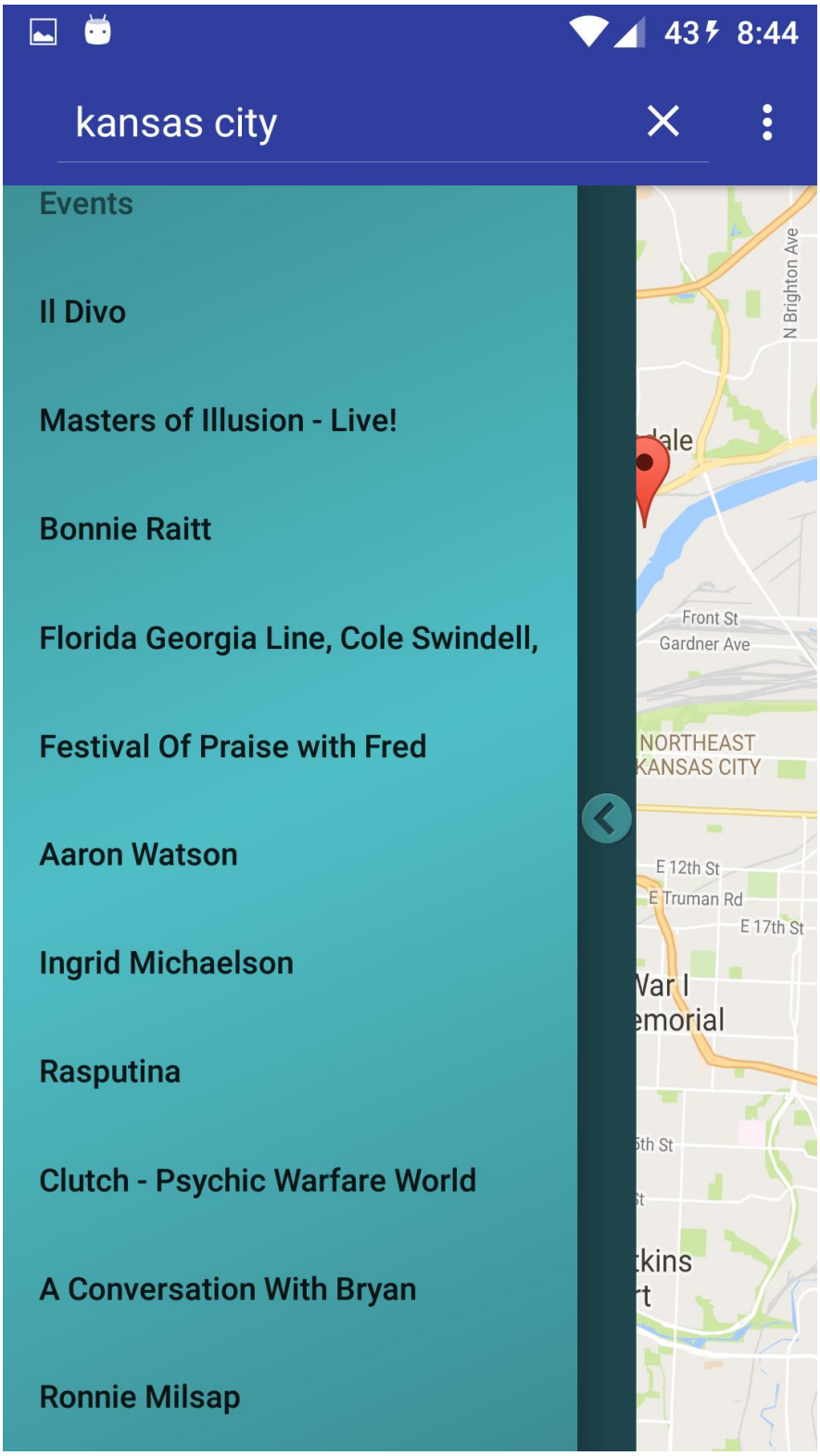
5.16 On clicking events image, application will be redirected to the following page.

5.17 Application retrieves the nearby events based on the user's current location. Event places will be displayed on the map as follows.

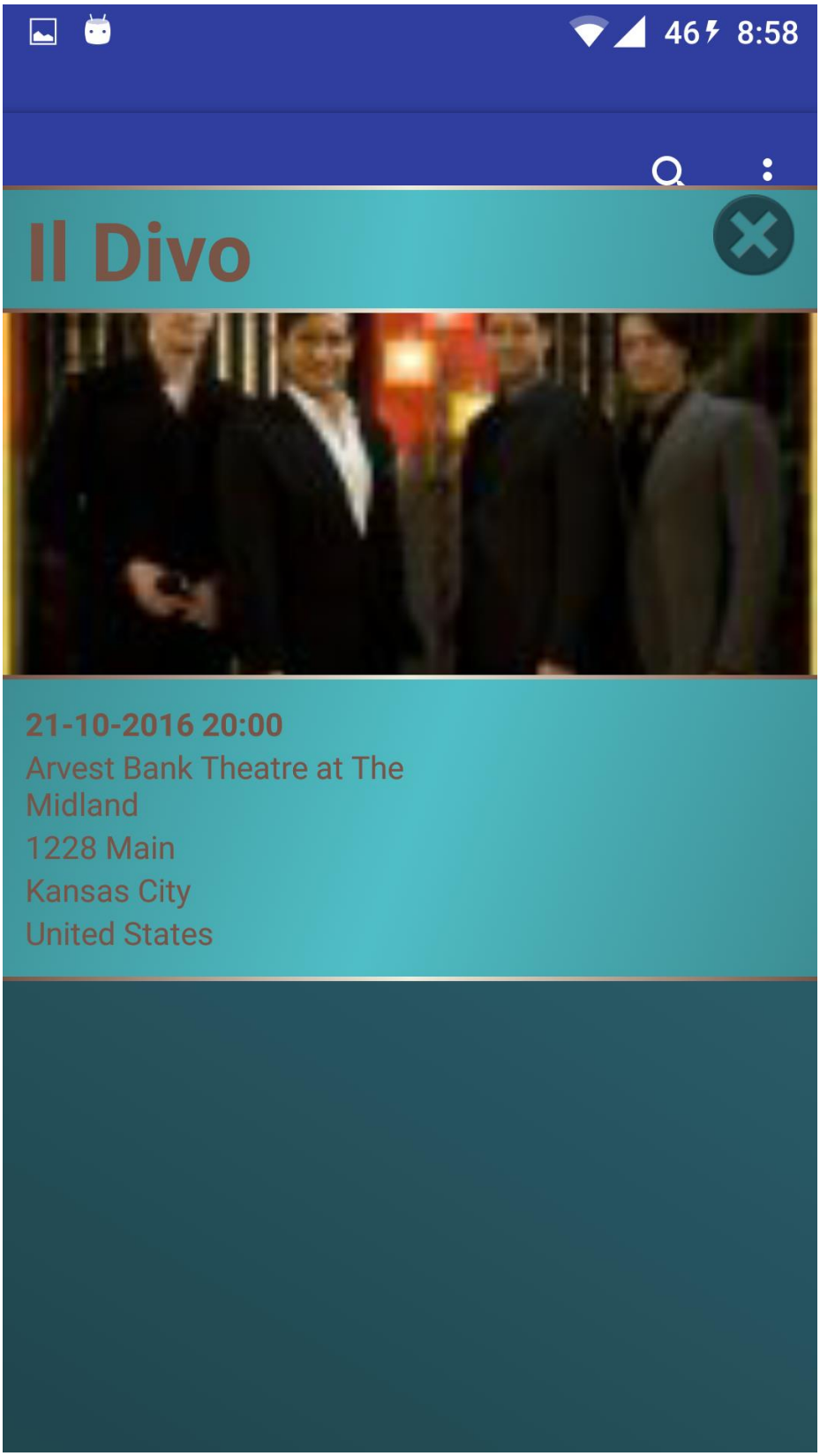



43 8:44
kansas city
Northmoor
Riverside
North
Kansas City
Front St
Gardner Ave
NORTHEAST
KANSAS CITY
Missouri River
Kansas City
E 12th St
E Truman Rd
E 18 St
E 17th St
Kansas Ave
National World War I
Museum and Memorial
E 31st St
E 35th St
E 39th St
The Nelson-Atkins
Museum of Art
Mission
Woods
Google

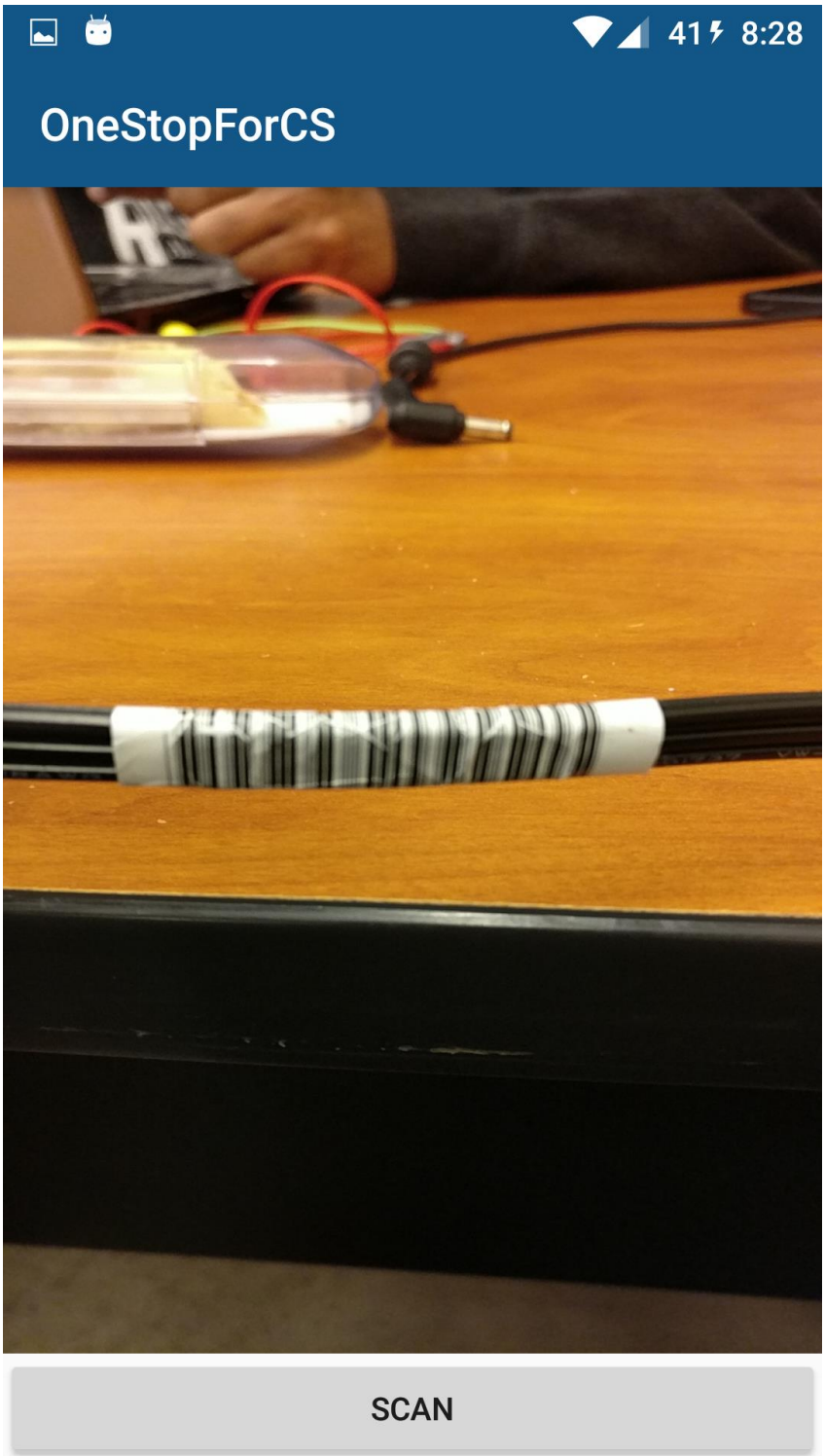
5.18 Names of the events will also be displayed on the application. By clicking on side bar, events names will be displayed.



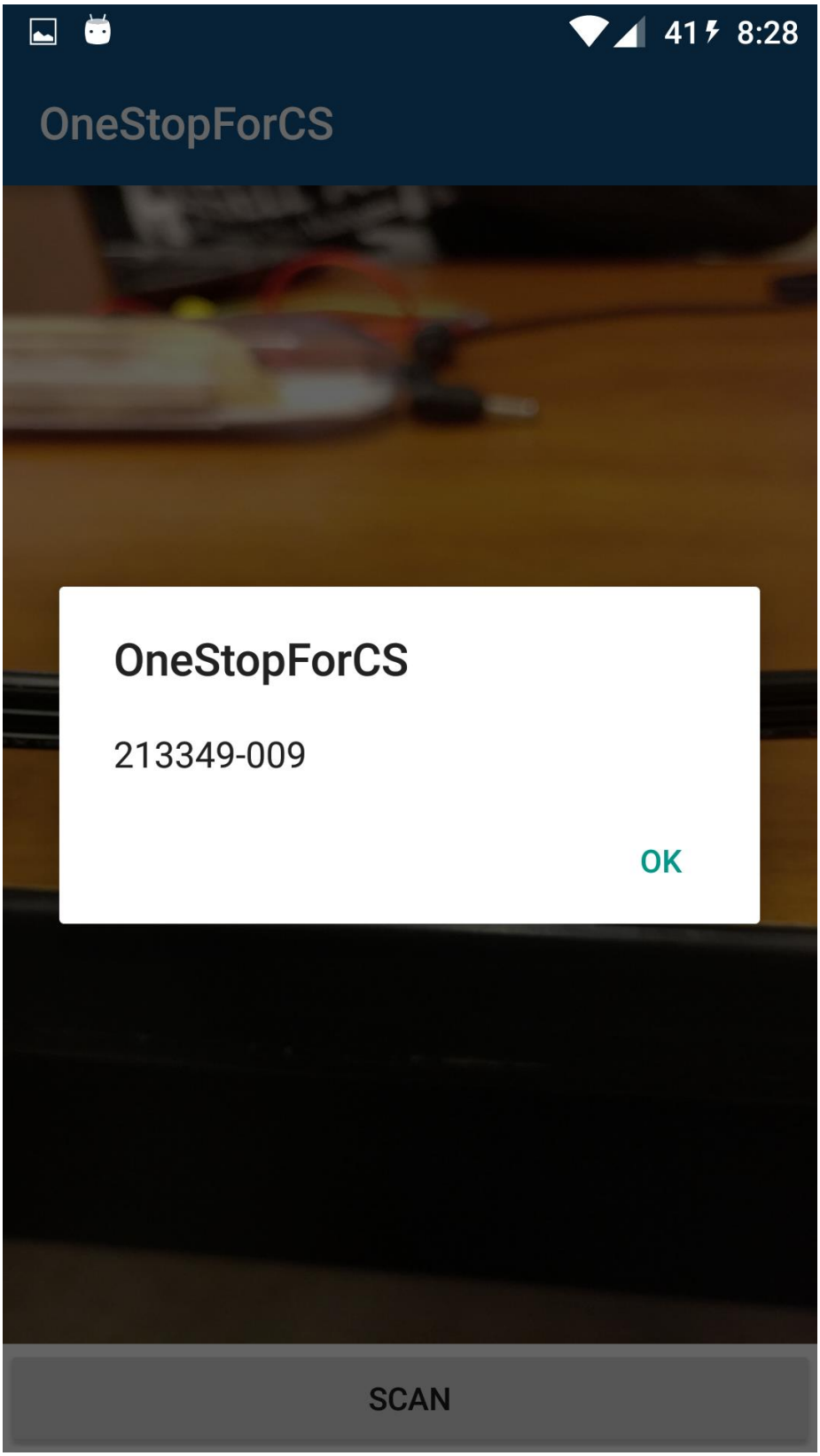
5.19 Event details will be displayed by clicking on respective event. Event details includes date, place and address.



5.20 On clicking the scanner button, camera is accessed to scan the bar code.



5.21 When scan is clicked, the product id is scanned and displayed.



**GitHub wiki page URL**:
https://github.com/MalineniAnusha/ASEProject/wiki/Project-Increment-2

# 6. Project Management

**Implementation status report**

**Technologies Used:** Android SDK, HTML, CSS, JS, Angular JS, J2EE.

**Work Completed**

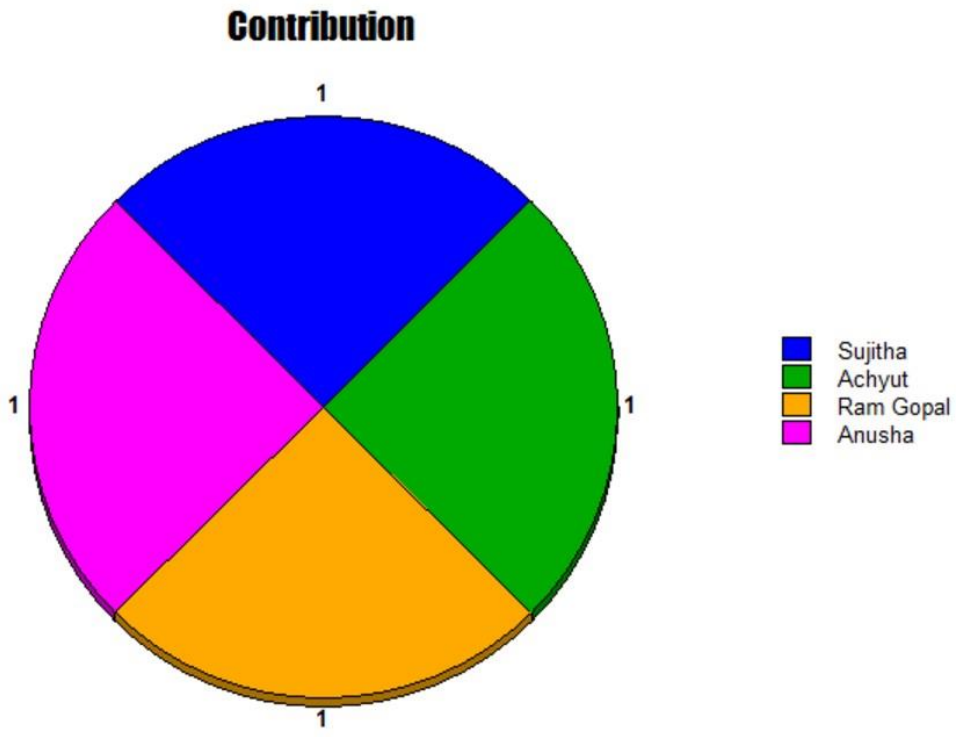
- Design and Architecture of the Application
- Login and Registration using Android
- Implemented SlideShare API
- Implemented on Eventful API
- Added bar code scanner plugin

**Work to be Completed**

- Integrating the Journal and Web courses API with the application.
- Navigating the application in ionic.
- Improving the User Interface of the application.
- Collecting the API useful for the application.
- Integrating application login details with mongoDB.

**Contributors:**

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




# 7. Bibliography

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