

Project Fourth Increment Fall 2016

TEAM - 2

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1. Introduction

Tech Hub

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 technical 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

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.

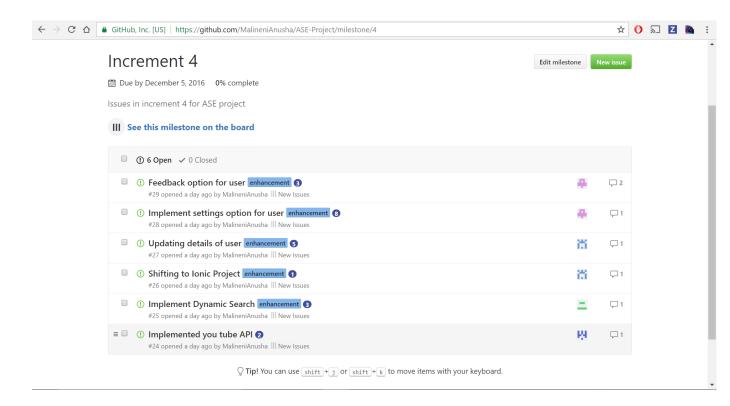
2.3 Specific features

- **2.3.1 Search for Wiki's:** This feature enables the user to search topics on Wikipedia 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.

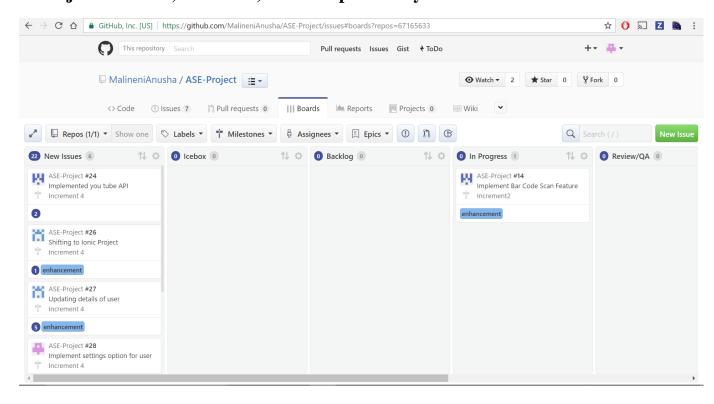
- **2.3.4 Search for online courses:** This feature enables the user to search for available online courses related to a particular course.
- **2.3.5 Latest technologies:** User can see the latest trending technologies in the field of computer science.
- **2.3.6 Accepts Suggestions:** User can suggest new resources in the form of videos, presentations, research papers and online courses for any particular course.
- **2.4 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. Fourth 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.

> Firebase:

We have integrated firebase for discussion forum of the application.

> 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.

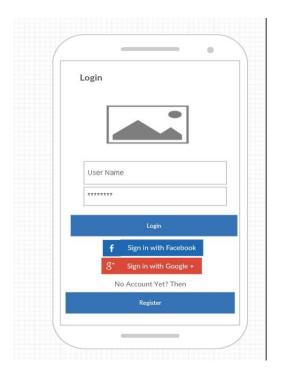
➤ Wikipedia API:

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

4.2 Detail Design of Features:

4.2.1. Wireframes

Login Page



Registration Page



Home Page



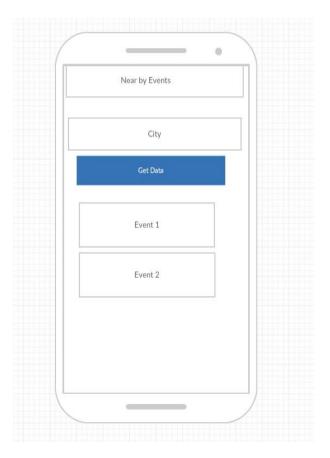
User profile



Wireframe for feedback page



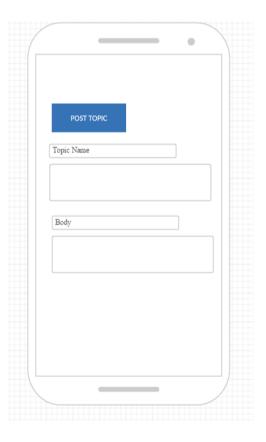
Wireframe for Eventful API



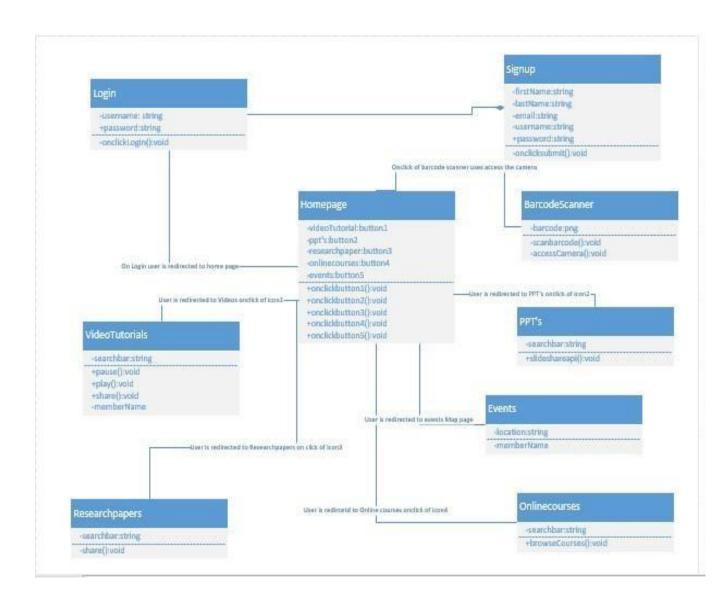
Wireframe for Discussion Forum



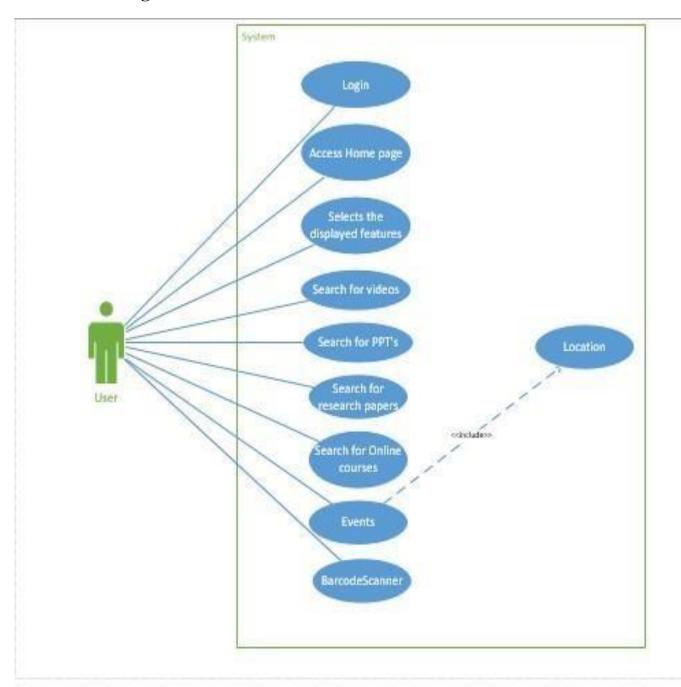
Wireframe to post the topic on forum



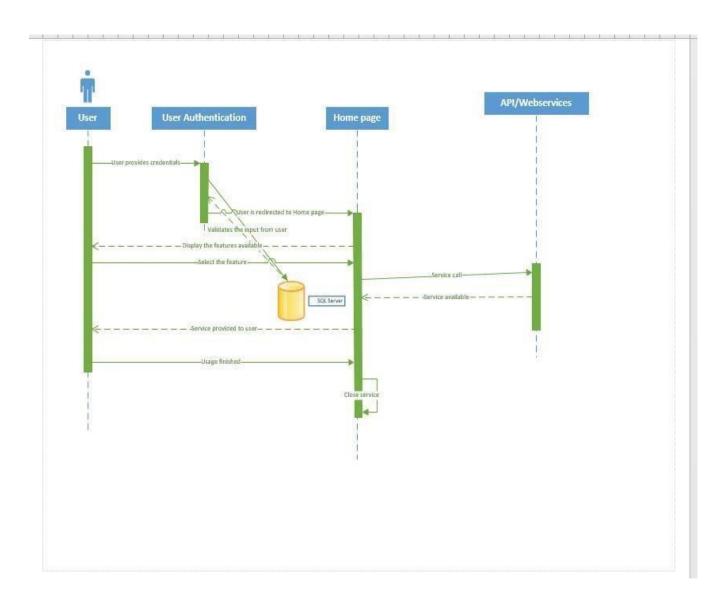
4.2.2 Class Diagram:



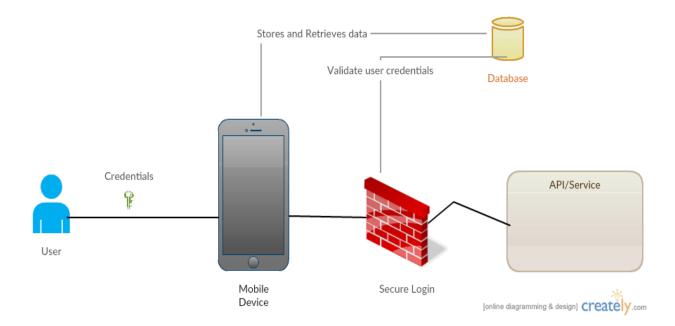
4.2.3 Use Case Diagram:



4.2.4 Sequence Diagram



4.2.5 Architecture Diagram



4.2.6 User Stories

As a	I want to	So that
	search for the resources of computer	I can learn new technologies in the
	science	current industry.
User	search for video resources according with	I can narrow down the search results
	keyword	to specific content.
	get the Wikipedia content of computer	I can better understand in brief and
	science topics	can explain to others easily.
	read the topic which is favorite to my	I can bookmark the topic to access it
	interests	easily.
	to contribute by providing more	I can give suggestions through
	resources	feedback.
	Search courses online	I can search to the course and finish
		it.

4.2.7 Unit Testing

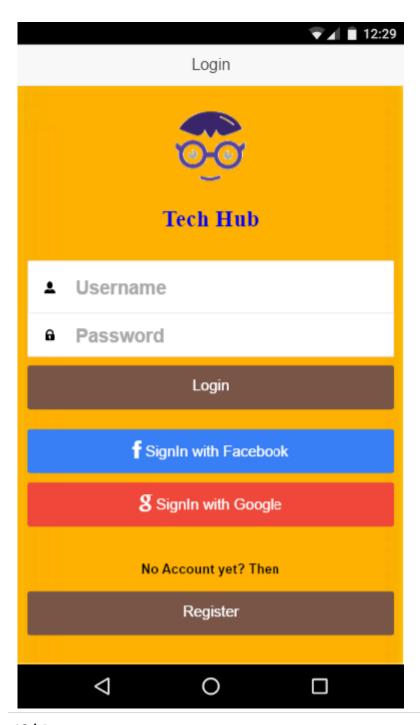
• Test Cases for Login and Signup page:

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
Youtube	On searching for the videos	Display list of videos related to search word	PASS
Wikipedia	On searching the content on the wikipedia	Displays list of topics related to search results	PASS

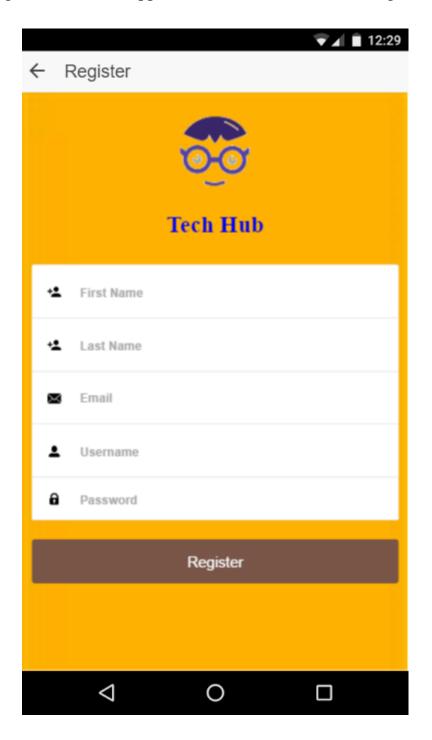
5. Implementation and Deployment

We have implemented the Tech Hub application in Ionic onto an emulator. Following screenshots describe the flow of the application.

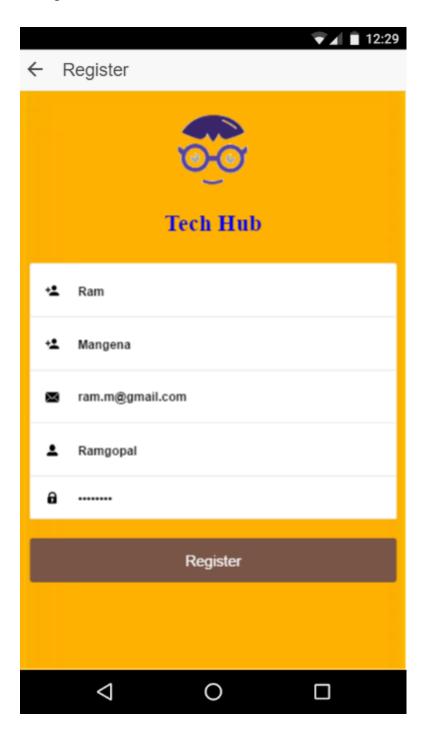
5.1 Login page for the application "Tech Hub" as shown below:



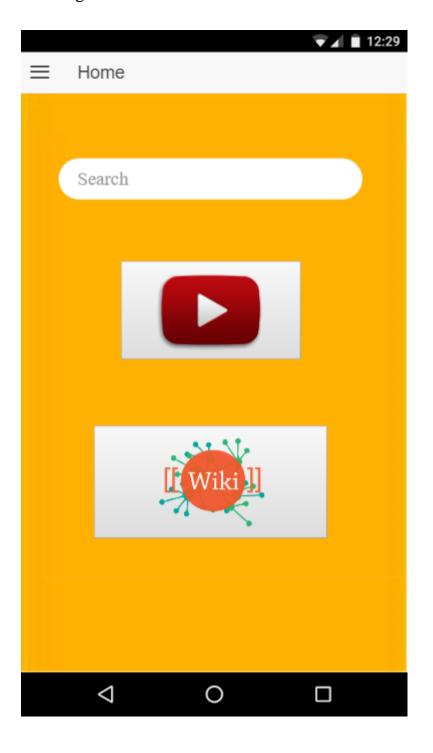
5.2 A new user can register by clicking on 'No account yet? Create one' button. By clicking on this button, application will be redirected to registration page.



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



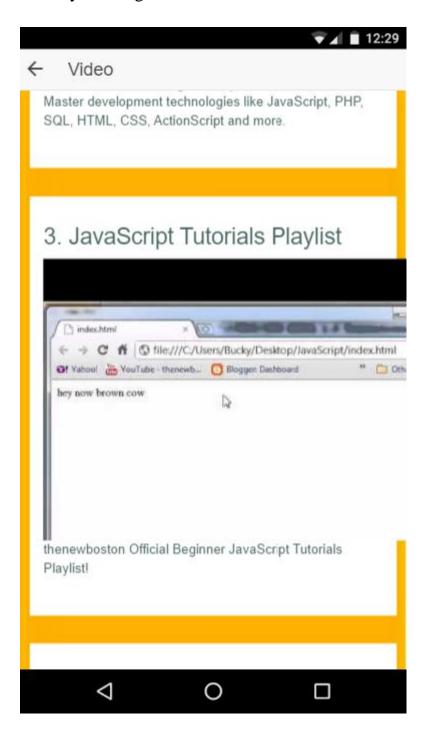
5.4 Following is the home page of our application. User will be redirected to home page by logging into the system either through application login or through Facebook login.



5.5 User can search for any technology on home page by giving the search string in the provided textbox.



5.6 By clicking on video, results related to videos will be displayed.



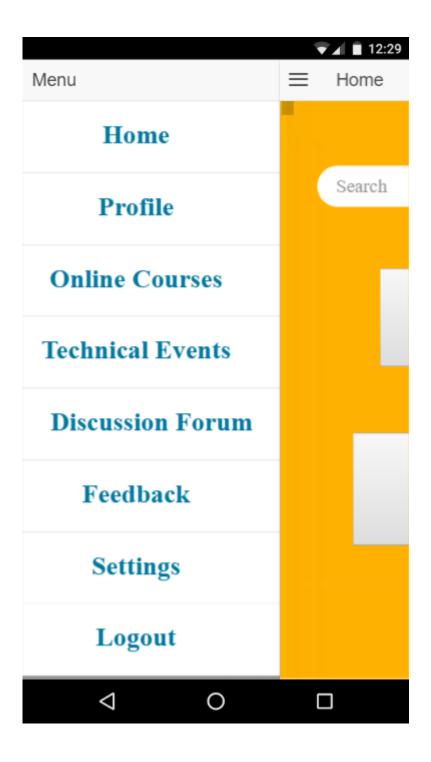
5.7 By clicking on wiki search, user will be redirected to a page with wiki results.



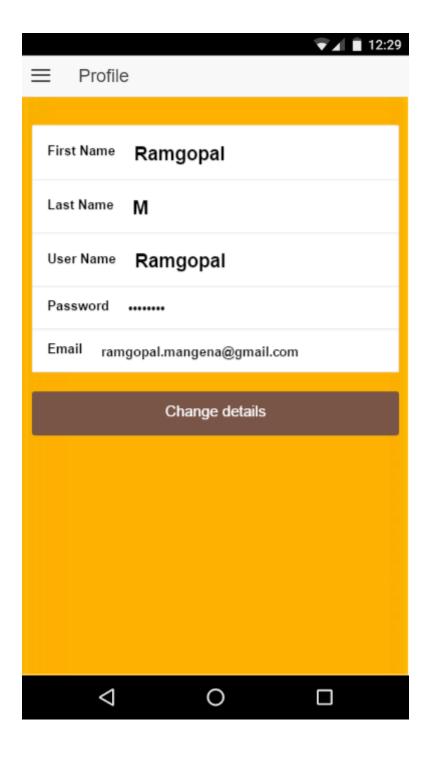
5.8 By clicking on any wiki link, corresponding wiki page will be displayed.



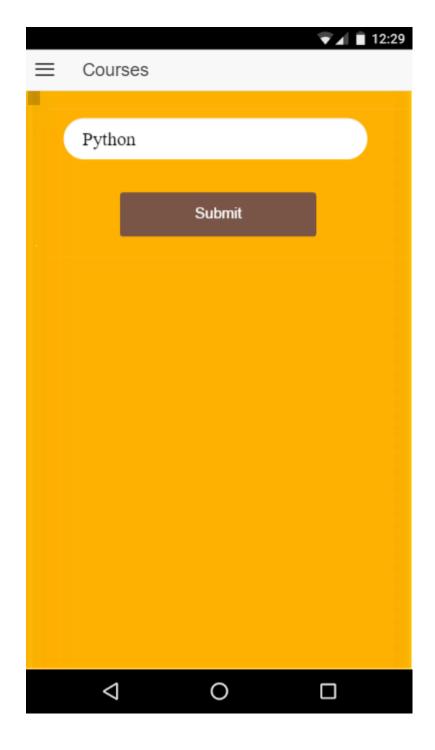
5.9 This is the side menu of our application.



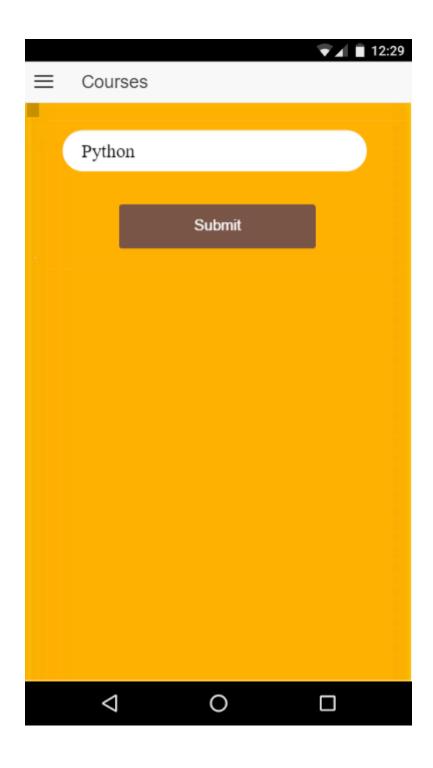
5.10 By clicking on profile, user details will be displayed.



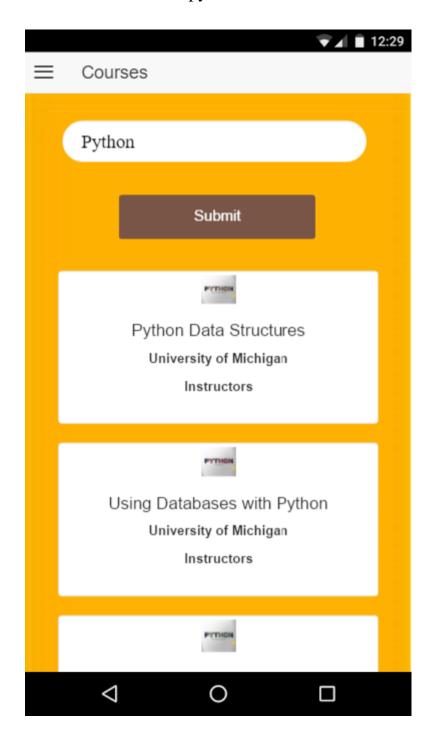
5.11 By clicking on 'online courses' button from side menu, courses home page will be displayed.



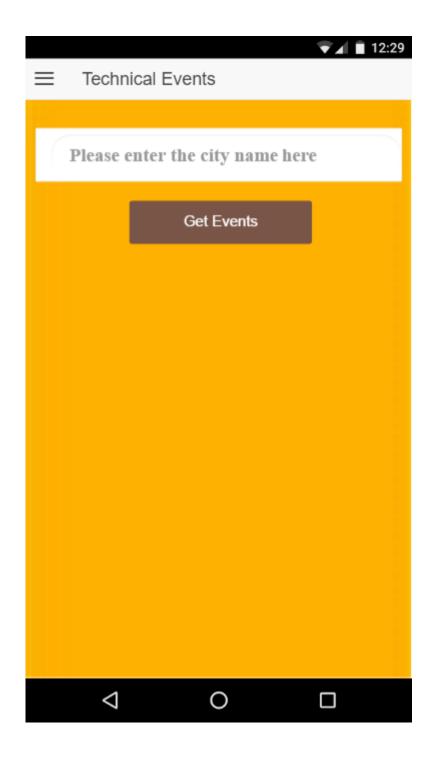
5.12 User can give any search string and corresponding courses will be retrieved from coursera website.



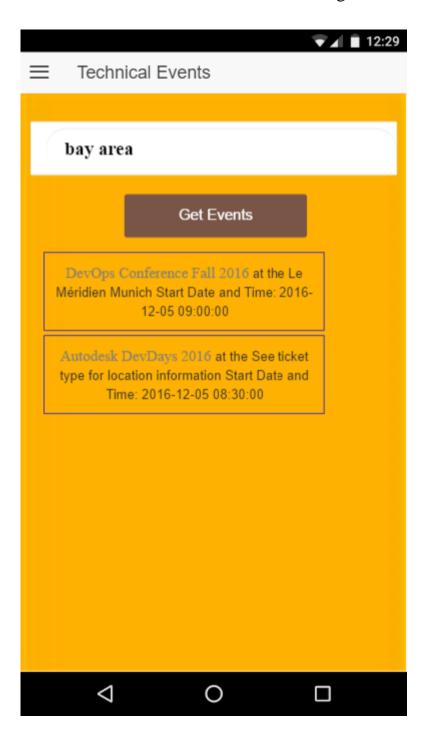
5.13 Following are the search results for the word 'python'. Our application will display all available courses related to python from coursera website.



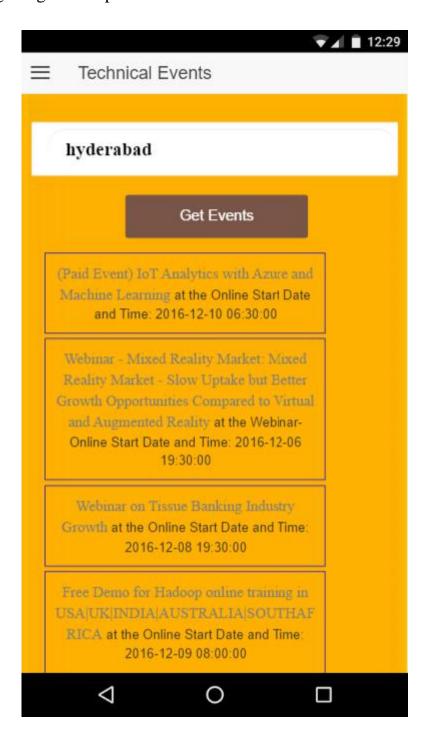
5.14 By clicking on 'Technical events' button on side menu, user will be redirected to a page that will provide all the technical events in the given area.



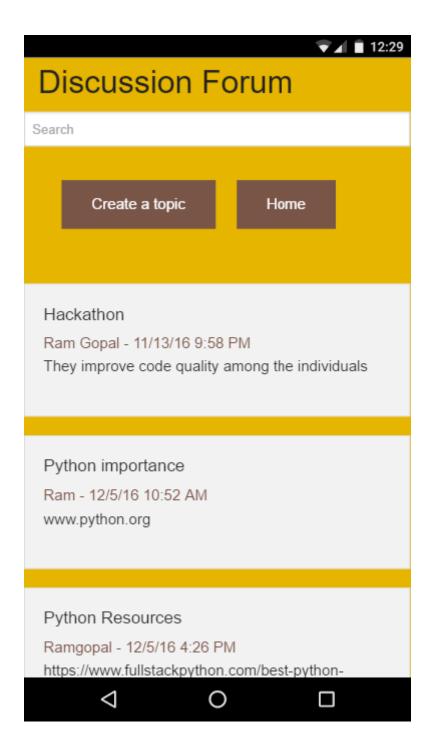
5.15 Following screenshots refers the search results for the key word 'bay area'. Our application retrieves all the technical events from the given area.

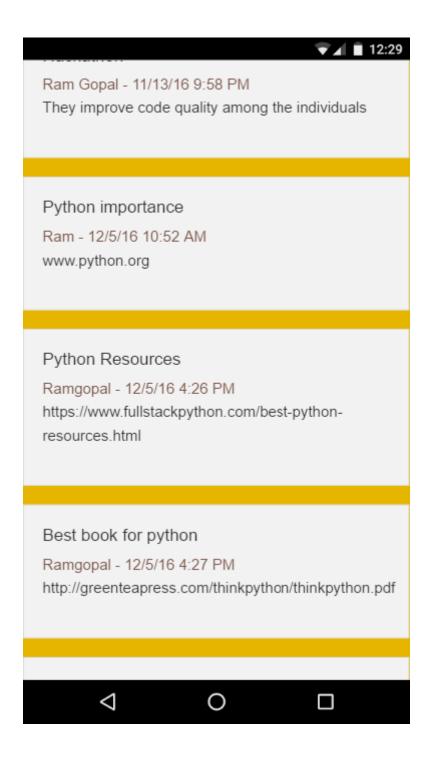


5.16 Following image corresponds to the event search results for another area.

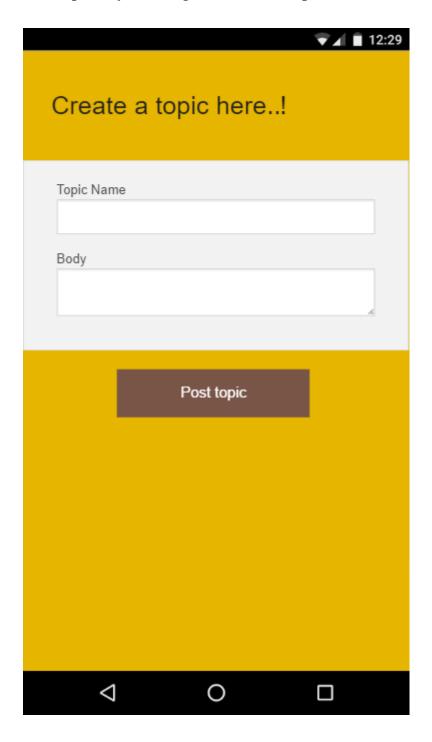


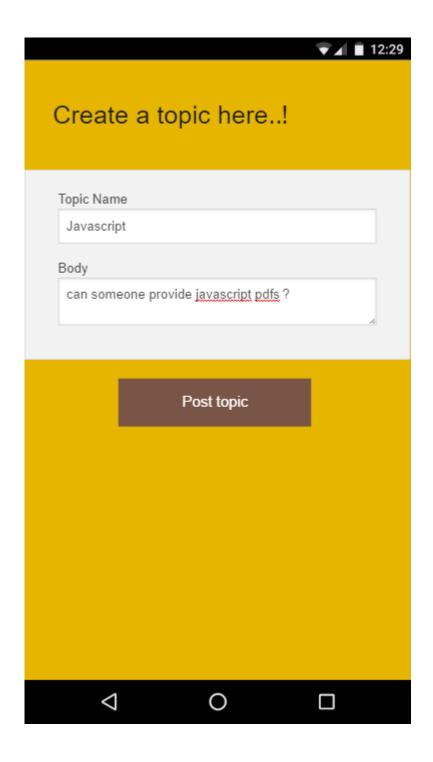
5.17 By clicking on 'discussion forum' user will be redirected to discussion forum, where users can post questions and any other user can answer for those posts.

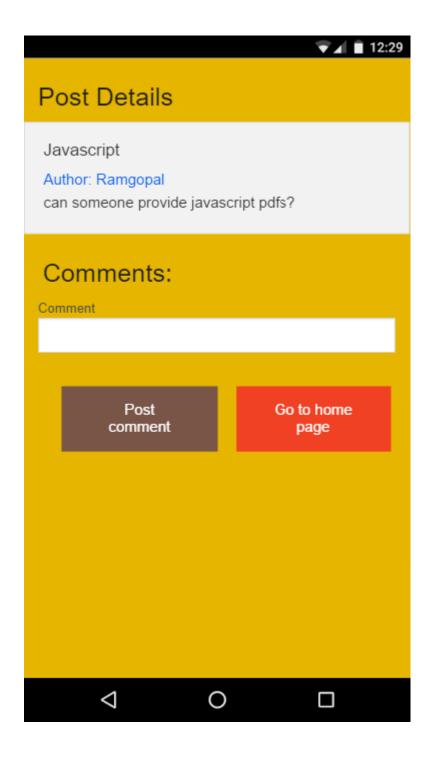




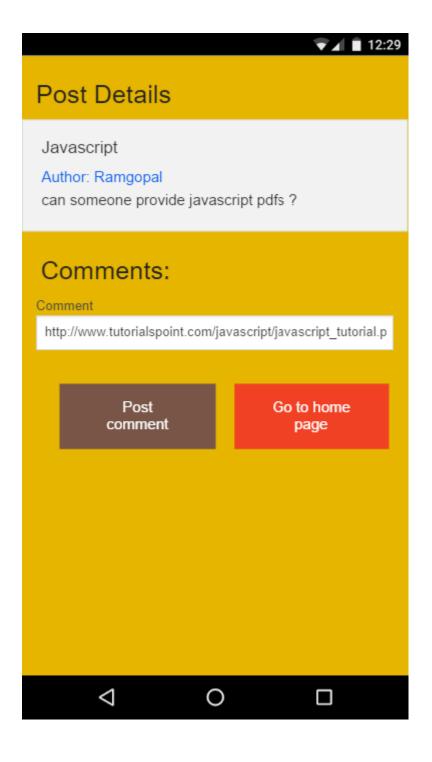
5.18 Any user can create post by clicking on 'create a topic' button.

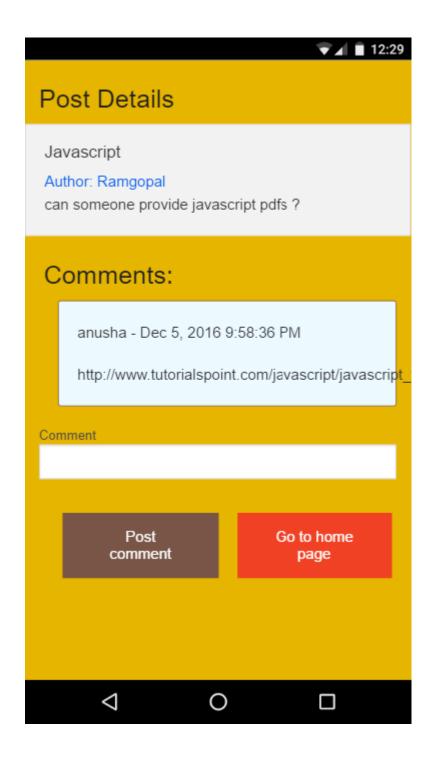




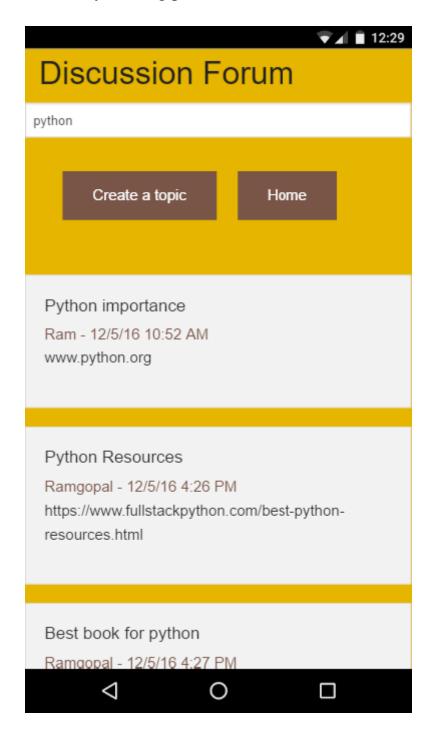


5.19 Any other user can comment on the existing post.

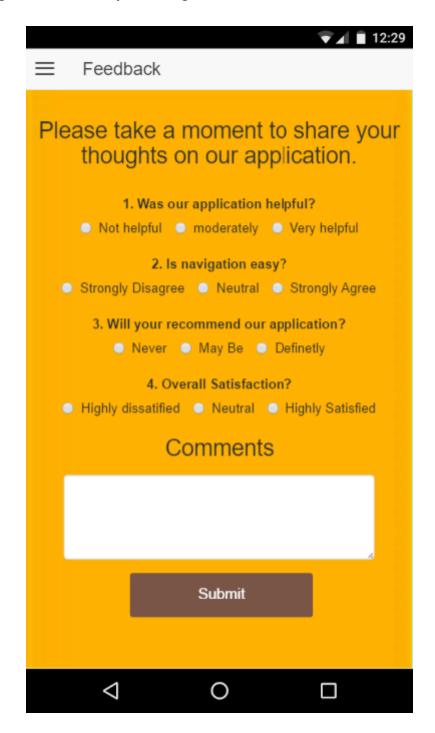


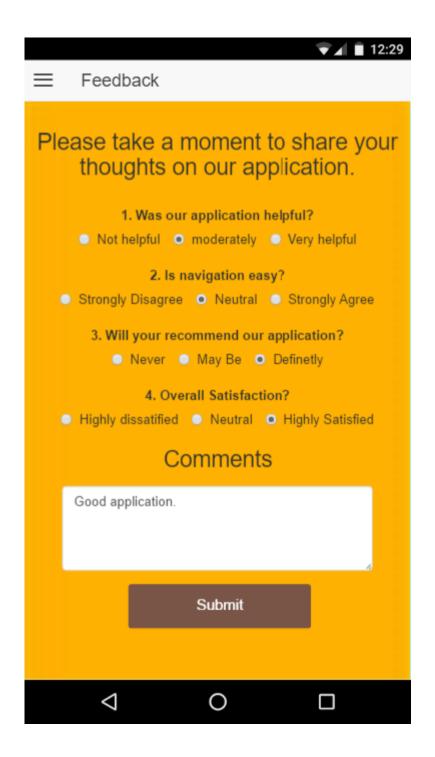


5.20 User can search for any existing post in the forum.

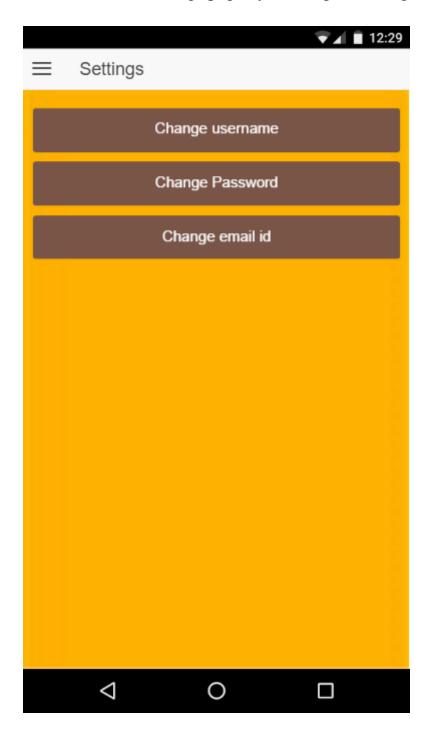


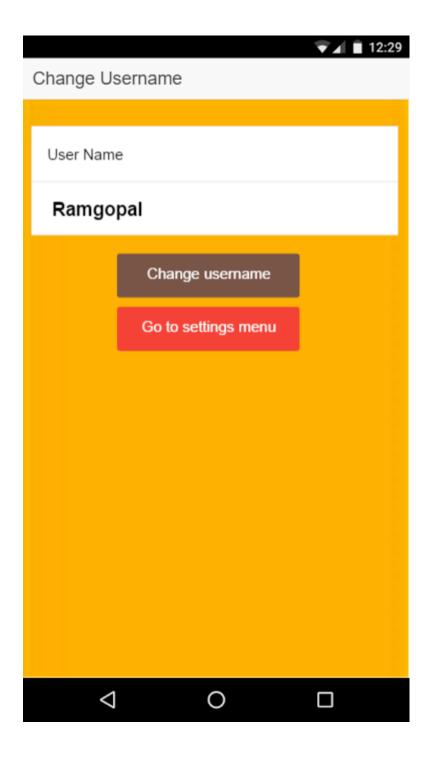
5.21 User can give feedback by clicking on 'feedback' button from the side menu.

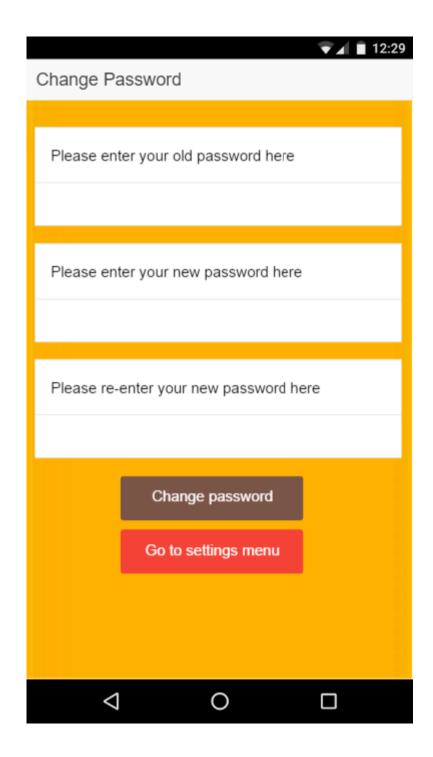


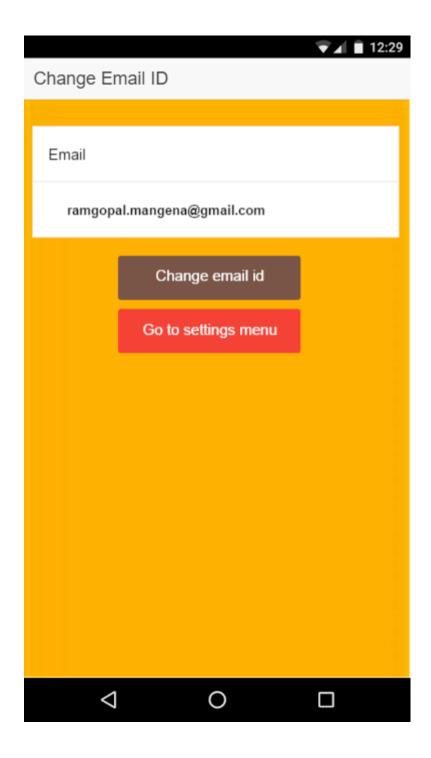


5.22 User will be redirected to settings page by clicking on settings button from side menu.









GitHub wiki page URL:

https://github.com/MalineniAnusha/ASE-Project/wiki/Project-Increment-4

YouTube URL:

https://www.youtube.com/watch?v=XqjHIozLcoc&feature=youtu.be

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 on Eventful API
- Implemented YouTube API.
- Implemented Coursera API.
- Implemented Wiki search API.
- Implemented search mashup.
- Integration firebase in discussion forum.
- Improving the User Interface of the application.
- Implemented discussion forum in application.

Contributors:

Achyuth	Sujitha	Ram Gopal	Anusha
YouTube API to	Wikipedia API to	Coursera API to	Eventful API to
retrieve the list of	retrieve data from	retrieve coursera	retrieve, technical
videos.	Wiki.	details.	events in the location
App Login &	Search mashup	User registration	User profile retrieval
Facebook Login	results from YT &	module.	
	WIKI.		
UI for login page,	Reset enable in	UI for Home page &	Feedback module
Registration page.	settings	other pages	
Retrieval of data in	Discussion forum	Discussion forum	Discussion forum,
Discussion forum.	search functionality.	firebase integration	post comment from
		& module to post a	another user module
		discussion	

7.Biblography

- http://stackoverflow.com/
- https://forum.ionicframework.com
- https://developers.facebook.com/
- https://developers.google.com/youtube/
- https://github.com