

CS551 Advance Software Engineering

Final Project Report

RooHub

Team #8

By

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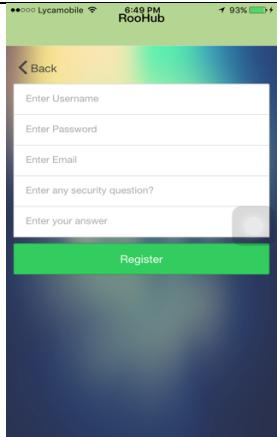
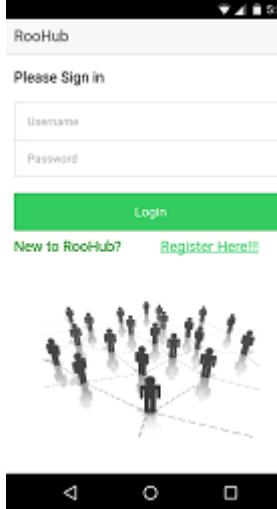
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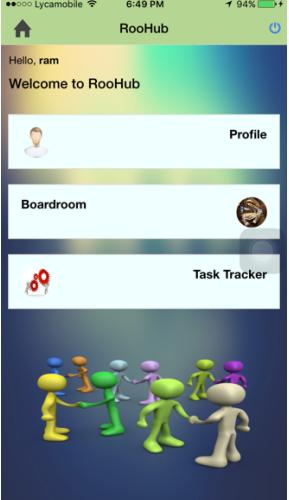
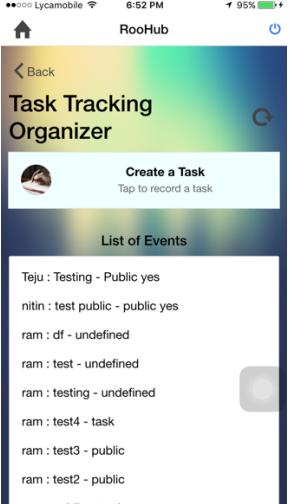
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Introduction:

The motivation for the development of this application is our UMKC's Blackboard where our professors post the updates and we can view them. Here, in our application, the students can register and as soon as they enroll they can choose their subjects and enter into boardrooms which is our main concept and can post updates and also view the posts of their peers.

Features:

Page Name	Usage	Screenshots	Comment
Student Registration.	Students need to register here.		
Student Login	A student can Login to the application after successful registration.		

Home screen	The home screen consists of Profile, Task Tracker and Board room.		Student can navigate to any of the pages.
Task Tracker	Task tracker page has Create tasks and List all tasks.		Students can create tasks and view tasks of the other students.

Boardrooms page	Boardrooms page lists all the subjects that the student have enrolled.		In this page, the students can post updates in the respective boardrooms.
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4. Error recognition and handling:

For Android 6.0 and above, first make sure all the permissions are granted.

Steps:

Settings --> Apps --> RooHub --> Permissions

Project Management Report:

We used Zenhub to track our burndown charts. You can view those in our GitHub link provided at the end of this report.

Project evaluation:

We are happy about the development of the application. Our project went according to our initial plan of development. We have learned many things in the process of the creation of this application. In fact, we have shifted from Android to Ionic after the first increment. There was not any issue with any of our team members. All four of us worked together to create this project.

Individual contribution to project:

Sree Rama Raju Pericharla: 25%

- Profile
- Boardroom postings
- Task Tracker
- Google calendar syncing
- IOS compatible application

Shanmukh Reddy Aalla: 25%

- Register
- Boardroom Retrieving
- Tasks Creations and postings
- Retrieving tasks

Tejaswi Ganne: 25%

- Application UI
- Boardroom Retrieving
- Tasks Creations and postings
- Task Tracker

Praneeth Iyyapu: 25%

- Profile
- Application UI
- Retrieving Tasks
- Bluemix Hosting of application

Project Proposal and Increment 1:

Proposal:

The Project RooHub is about creating an application for University students who enrolls in different subjects in a particular course and find it difficult to communicate with their peers efficiently. So, we came up to crate this application called RooHub to decrease the hassles of the students by creating boardrooms for each subject they enroll in their course curriculum.

Project Goal and Objectives:

Overall goal:

The overall goal of this project is to crate respective boardrooms for different subjects which students enroll and let them chat, post any updates or ask questions to their peers about any new developments. Doing so increasing the communication between the students of the same class. They can login from anywhere and anytime and post the updates.

Specific objectives:

The specific objectives of this project include, enabling the chat option for the students who login to the app and give their information about the subjects they have enrolled.

Specific Features:

The main feature of this project is the chat option that is available to the students which avails them to chat with anyone who is present in the group.

Significance:

Since opening mails and checking for the updates is not that easy when compared to opening an app and checking the updates, this app creation solves that problem. And additionally, there is a boardroom concept also which is included.

Project Plan:

- 1) Schedule for the whole project is created and Issues for the first increment are written in the Issues dashboard in the Zenhub. The screenshot of the same is shown below.

The screenshot shows the GitHub Issues dashboard for the repository 'sreeram66 / RooHub-Team8'. The top navigation bar includes links for Pull requests, Issues, Gist, and ToDo. Below the navigation, there are buttons for Unwatch (4), Star (0), Fork (0), and a New milestone button. The main area displays four project increments:

- Project Increment 1**: Due by February 19, 2016, Last updated 1 minute ago. Status: 100% complete (0 open, 4 closed). Actions: Edit, Close, Delete.
- Project Increment 2**: Due by March 11, 2016, Last updated 1 minute ago. Status: 0% complete (0 open, 0 closed). Actions: Edit, Close, Delete.
- Project Increment 3**: Due by April 6, 2016, Last updated less than a minute ago. Status: 0% complete (0 open, 0 closed). Actions: Edit, Close, Delete.
- Project Increment 4**: Due by April 29, 2016, Last updated less than a minute ago. Status: 0% complete (0 open, 0 closed). Actions: Edit, Close, Delete.

This screenshot shows a GitHub repository board for 'sreeram66 / RooHub-Team8'. The board is divided into several columns: 'New Issues' (0), 'Backlog' (0), 'To Do' (0), 'In Progress' (0), 'Done' (0), and 'Closed' (4). The 'Closed' column contains four issues:

- RooHub-Team8 #4 Database connectivity issue (bug)
- RooHub-Team8 #3 Credential acceptance in password (enhancement)
- RooHub-Team8 #2 Issue with the user name (bug)
- RooHub-Team8 #1 Registering Issue (bug)

At the top right, there is a search bar and a 'New issue' button.

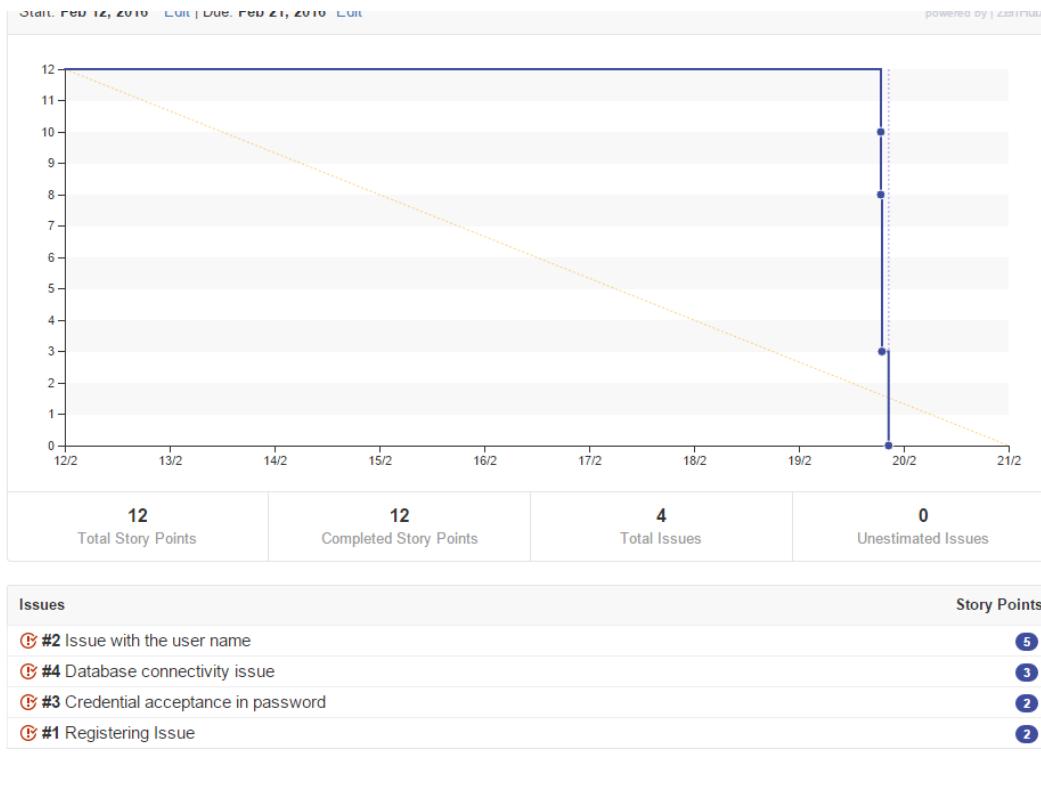
2) Project Timelines and Task responsibilities:

This screenshot shows the GitHub Issues page for the same repository, filtered to show only closed issues. There are four results:

- Database connectivity issue** (bug) - #4 opened 5 hours ago by shaalla
- Credential acceptance in password** (enhancement) - #3 opened 5 hours ago by shaalla
- Issue with the user name** (bug) - #2 opened 5 hours ago by Tejaswiganne
- Registering Issue** (bug) - #1 opened 5 hours ago by Tejaswiganne

At the bottom, there is a 'ProTip!' message: 'Type g i on any issue or pull request to go back to the issue listing page.'

3)Burndown Chart:



User Stories:

1) Enroll for subjects:

As a student, I want to enroll for the subjects in the application.

For this, we have given an option for the users to select the subjects that they have taken while registering.

2) Posting Updates:

As a member in the boardroom, I want to post updates in the boardroom.

For this, we have enabled an option of posting the updates in the boardrooms.

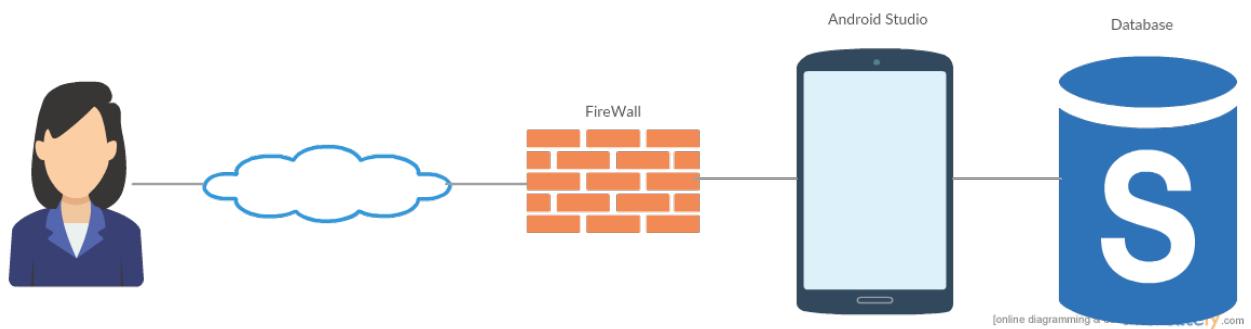
3) Chat with peers:

As a user in the boardroom, I want to chat with the individuals of the boardroom.

For this, we have given an option to chat with the individuals who are present in the boardrooms

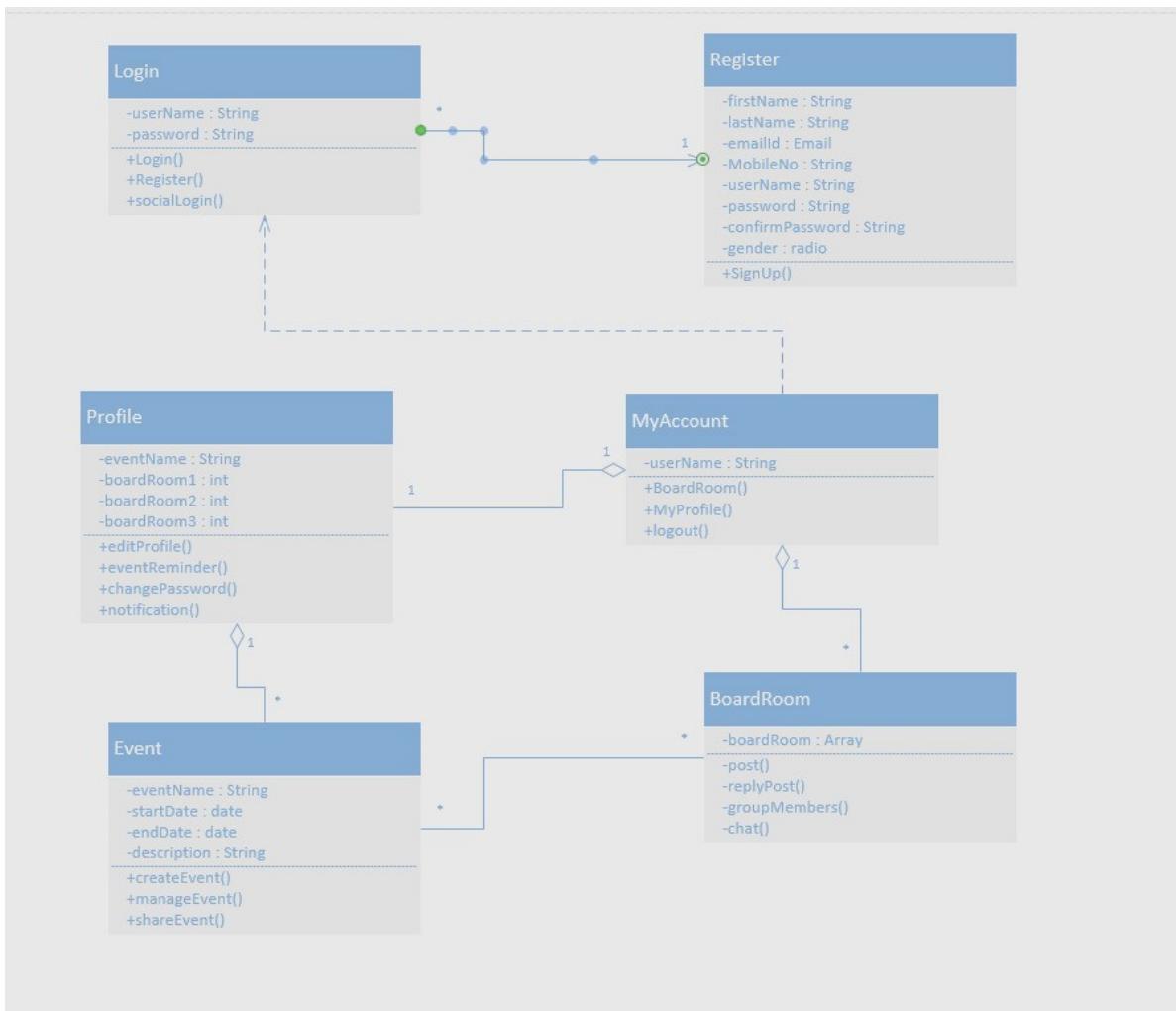
Architecture Diagram:

The Architecture diagram for our application is shown below.

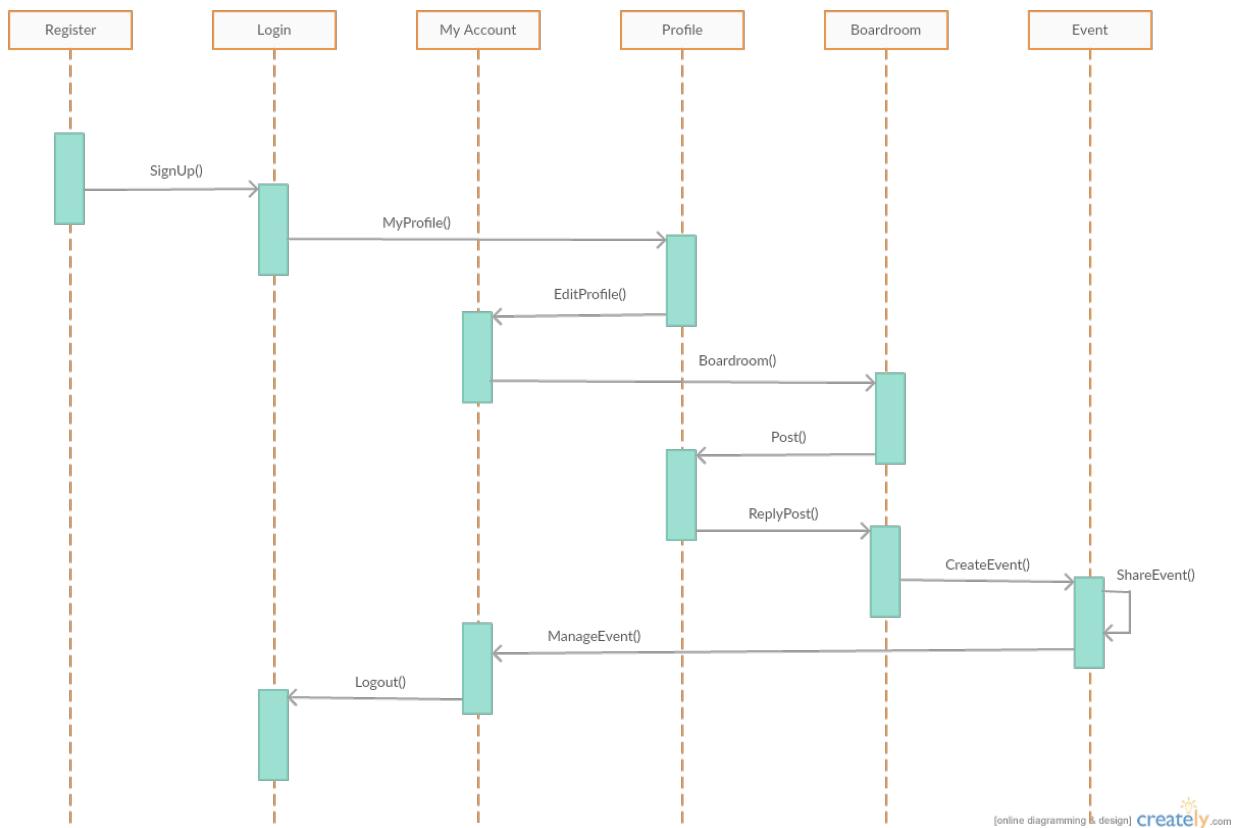


Class Diagram:

The class diagram is shown below:



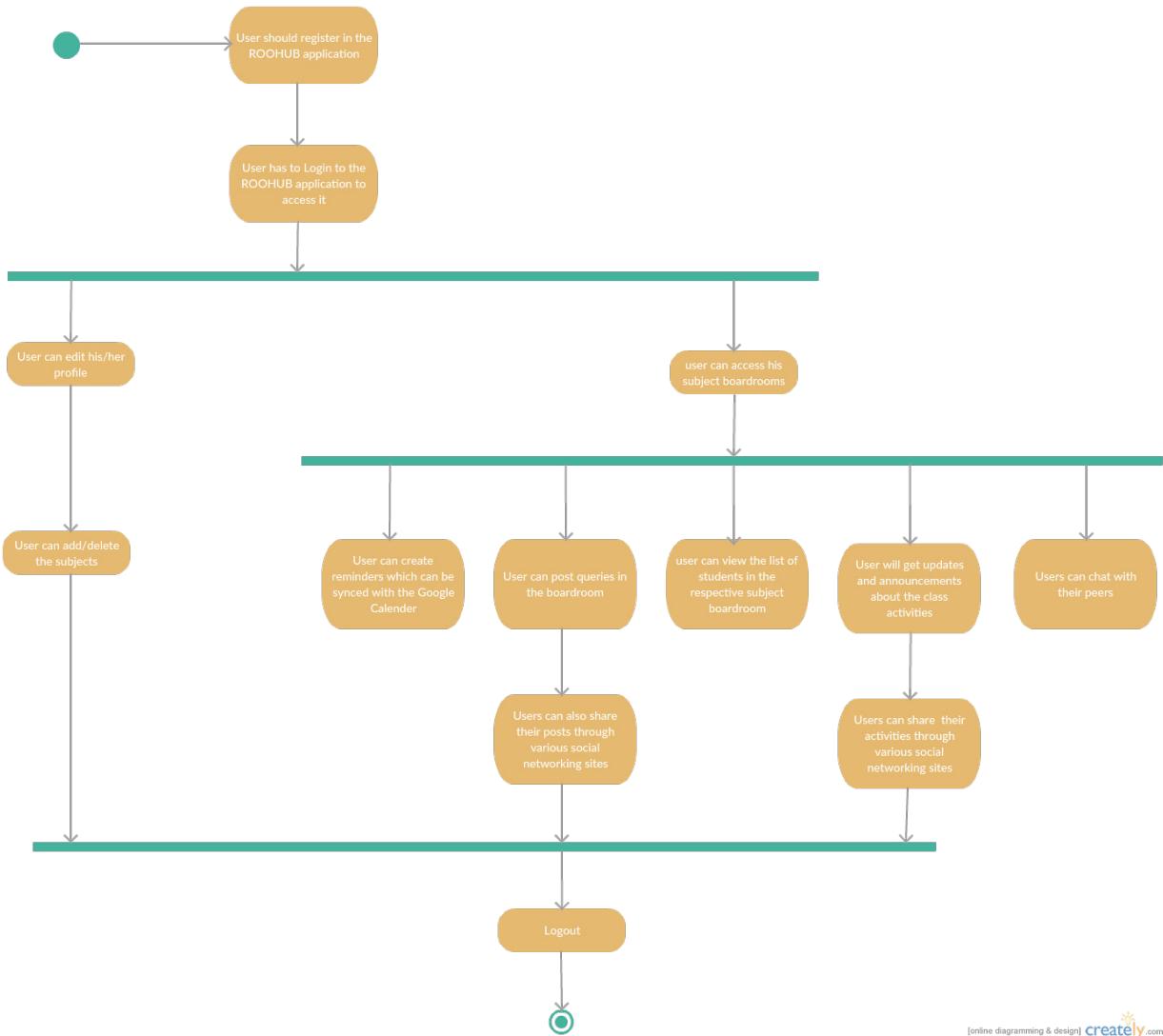
Sequence Diagram:



Use Case Diagram:



Activity Diagram:



II. First Increment Report:

For this phase of the project, we have created Login and Register pages. And we have created UML class diagrams, Wireframes, UML sequence diagrams, UML state diagram.

Existing APIs:

For this increment we haven't used any of the APIs.

Detailed design of Features:

Wireframes:

The Wireframes for the first phase of the project are shown below.

Login:

User can Login into the application by entering the valid User Name and password.



Sign Up:

User have to register in the sign up page if the user is new to the Application.



The image shows a 'Sign Up' form window. At the top, it says 'Sign Up'. Below that is a large empty rectangular area for input. To the left of this area, there are five labels with corresponding input fields to their right: 'Name:' (input field), 'Email Address:' (input field), 'User Name:' (input field), 'Password:' (input field), and 'Confirm Password:' (input field). At the bottom of the form is a single button labeled 'Sign Up'.

Home page:

Once the User enters correct username and the valid password, he/she is redirected into the homepage of the application i.e the Boardroom.

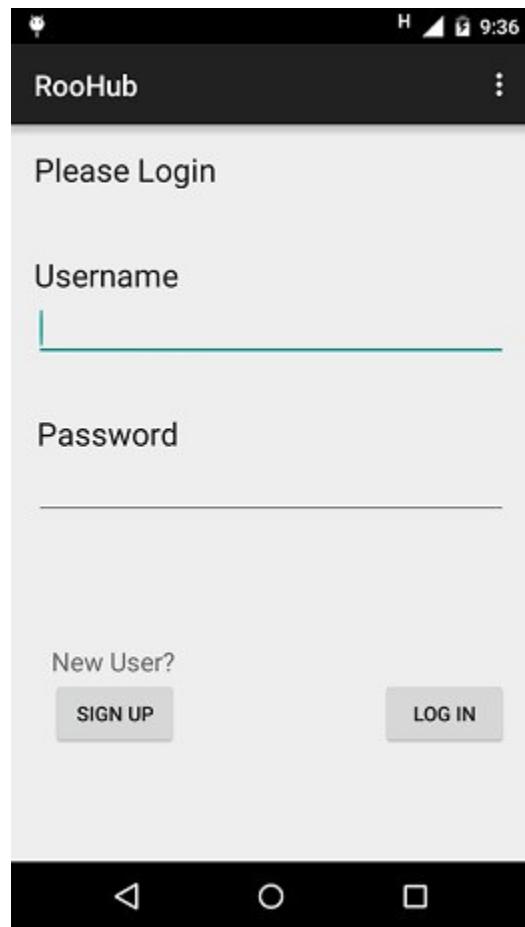


Mock Ups:

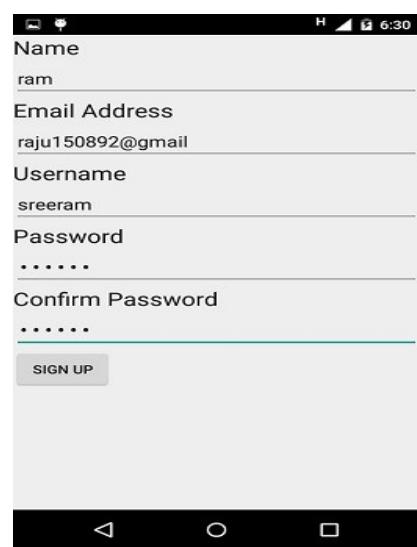
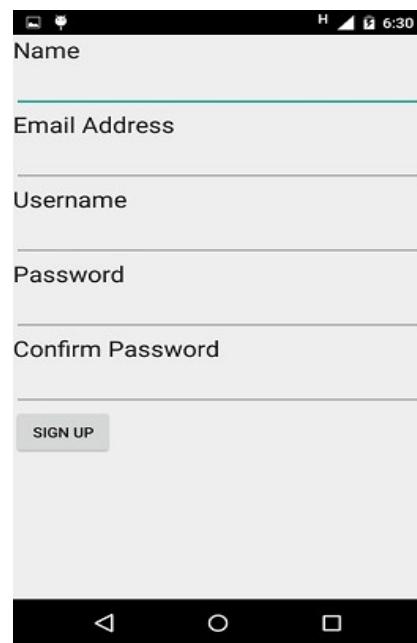
The Screenshots of the Application when ran on the mobile are captured and are shown below.

Login Page:

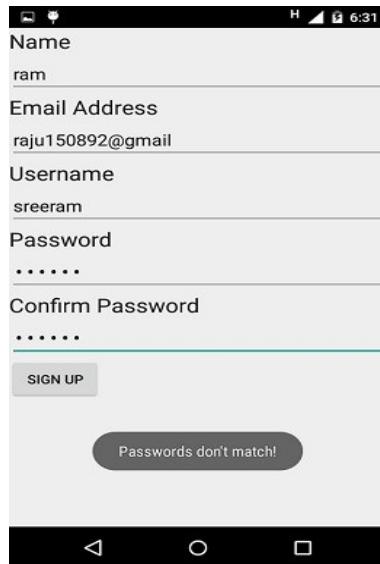
When the user enters into the application, He/she will be asked for his/her credentials to Login



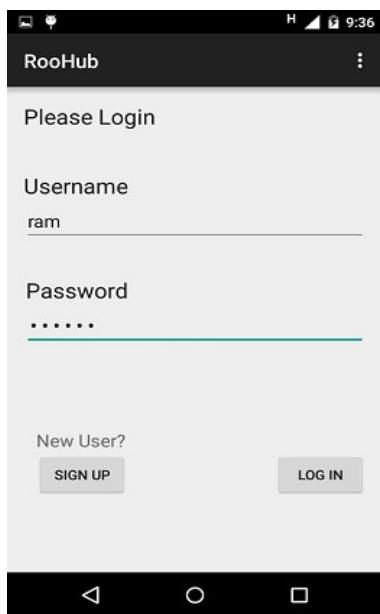
If the user is doesn't have the credentials. Then he/she can select the Sign Up button to create a new Account.



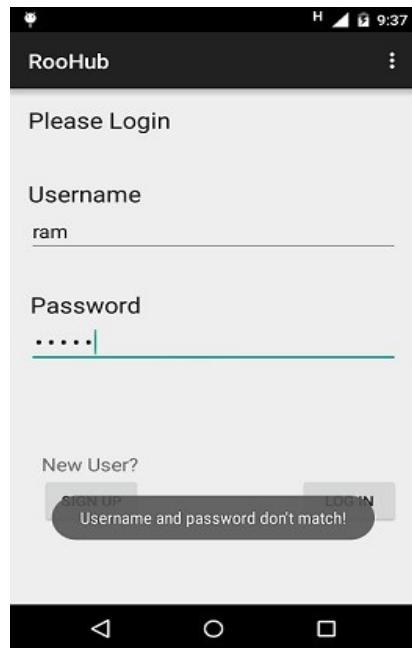
If any of the field in the sign up page is empty or if the password and confirm password doesn't match then the application will throw an error.



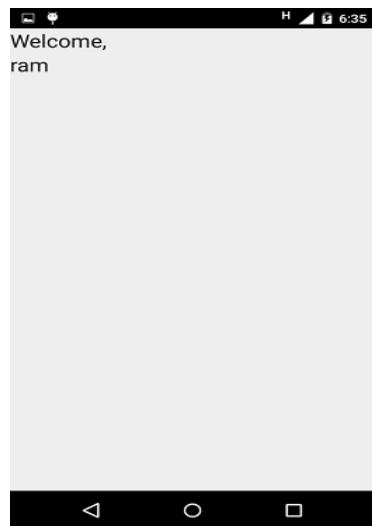
After successful sign up, the user can now use the new account credentials to login into the application.



If the Username and password doesn't match,



After successful login, the login page redirects to the home page.



Implementation:

We have created this application using Android Studio.

Deployment:

We have deployed the application in mobile and captured the screenshots. We have explained them in detail in Mock up section above.

GitHub URL for the project documentation and source code

<https://github.com/sreeram66/RooHub-Team8/tree/master/Documentation>

Project Management:**Work completed:**

Description: The Login and Register pages have been created. The Register page is connected to Database.

Responsibility:

In this phase of developing the project, each and every person of us have contributed equally towards the project while sharing the tasks between the individuals.

Time taken:

We took nearly 10 hours totally to do the project in phase 1.

Contributions: As discussed above each and every member of the group have contributed equally towards the project.

Work to be created:**Description:**

After this phase of the project, tasks remaining are creating the board rooms for each subject the students enroll and to enable the chat option, posting updates in the board rooms.

Responsibility:

As planned, we would share different features of the application with different members of the group, then combine by bringing the code together and using specific intents we make it into a single application.

Time to be taken:

The total estimated hours for completing the tasks is 200 hours collectively.

Bibliography.

http://www.techotopia.com/index.php/An_Android_Studio_SQLite_Database_Tutorial

<http://developer.android.com/tools/help/sqlite3.html>

<http://stackoverflow.com/questions/29138442/browse-sqlite-database-from-android-studio>

Second Increment report

Team 8

Sree Rama Raju Pericharla	- 45
Shanmukha Reddy Aalla	- 01
Tejaswi Ganne	- 11
Sri Praneeth Iyyapu	- 16

Introduction:

In this project we create an application for University students which will allow users (i.e students after enrollment) to enter into the board rooms after successful registration of the subjects. The students can post their queries regarding the subjects in their respective board rooms. They can chat with the other students of the group as well. In addition to these he/she can sync their Google calendar as well.

Objectives:

The main objective of this project is to create a useful mobile application which brings boardrooms of the classes into our hands virtually. This will give the students extra edge to get their doubts clarified by their peers.

Features:

The features of this application includes the chat option for the users of the application who are students of the university and they can even sync their Google calendar also.

Detail design of

Features:

Wireframes:

Following are the wireframes for the application.



Register

Enter Username

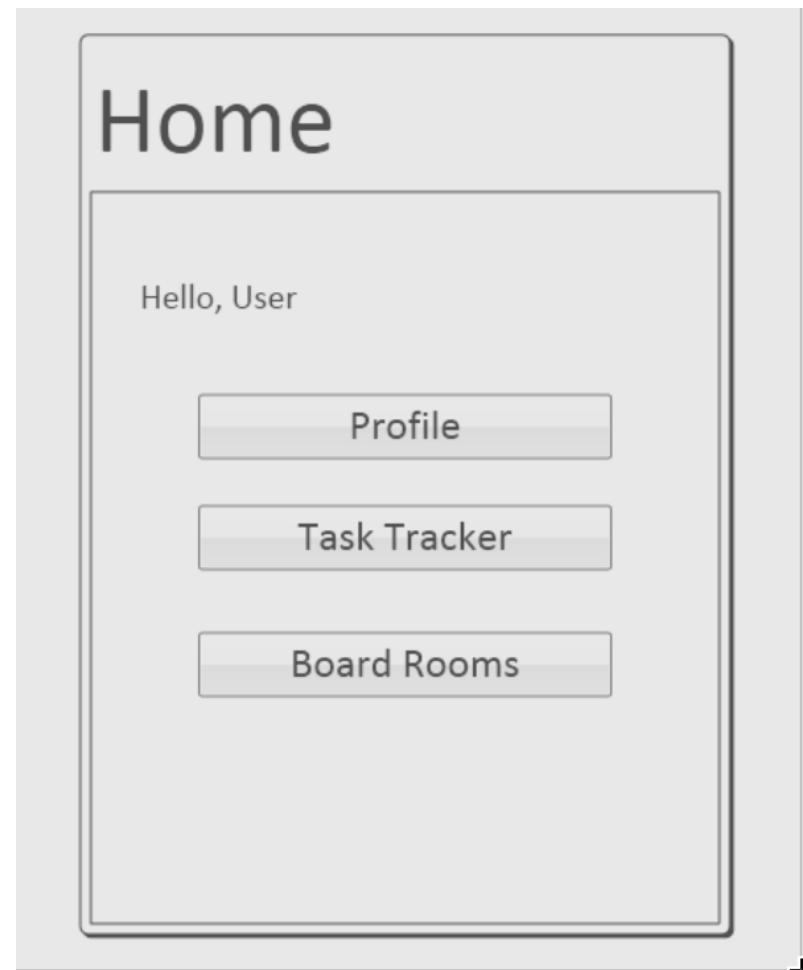
Enter Password

Enter Email

Enter any security question

Enter your answer

Register



Profile

Update

Delete

Update Profile

Enter new Username

Enter new Password

Enter new Email

Update Profile

Subject 1 ▾

Subject 2 ▾

Subject 3 ▾

Board Rooms

Welcome to board rooms

Subject 1

Subject 2

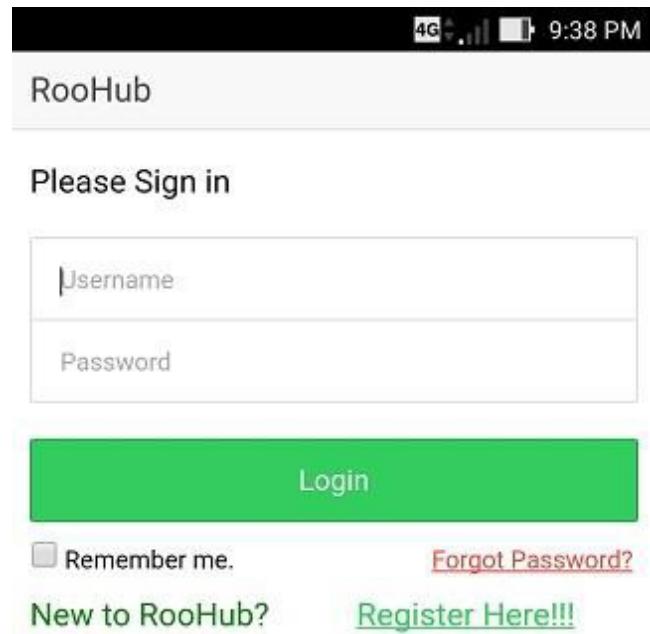
Subject 3

Mockups:

After entering into the application in android phone:

- Application launches to the login page
- After clicking on the register here it will navigate to the register page
- We can add the user and user information and create using register page
- After entering username and password in the login and clicking on the login will land the user into the Home page
- Clicking on the Profile button navigates the application to the profile page
- Here after selecting update profile will lead to profile update page where we can select our subjects and can even change the user information
- Clicking on the delete account will delete the user account from the db
- Clicking on the Board room will lead the user to the Board room page where he can select the respective board room subject

Following are the screenshots of mentioned flow of the application:

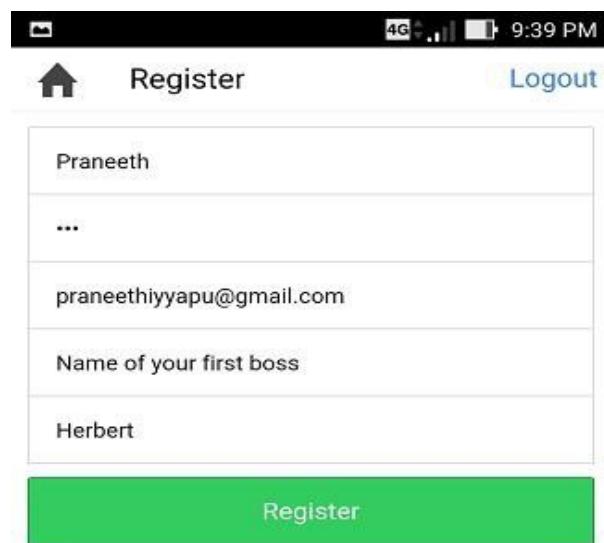


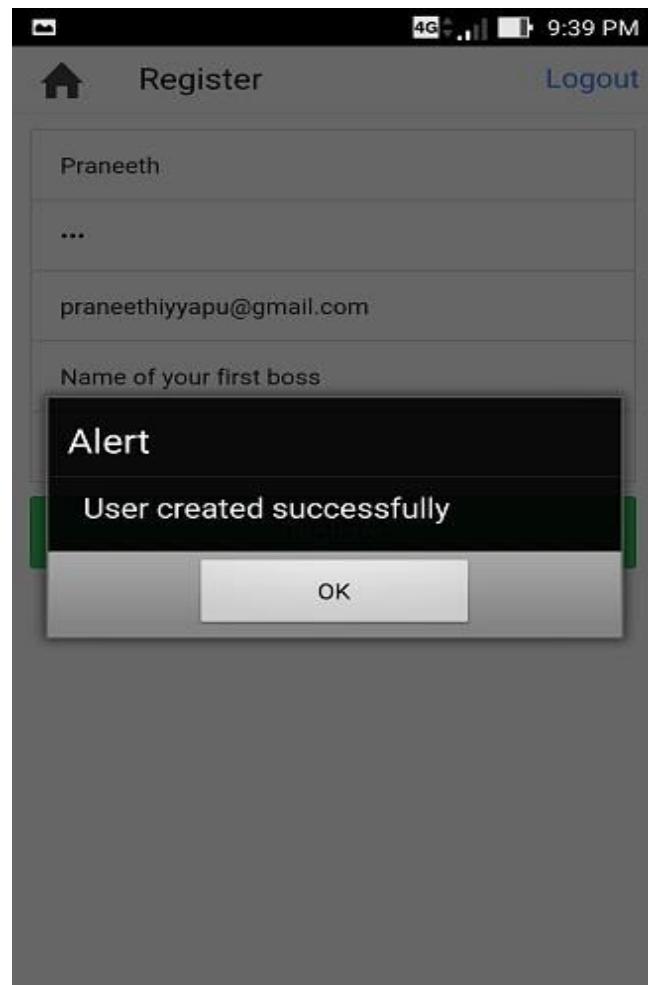
4G 9:38 PM

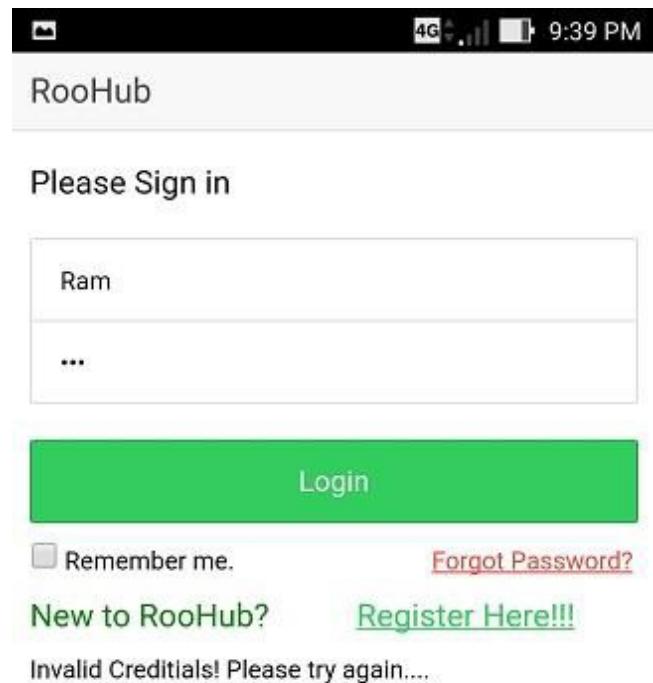
[Home](#) [Register](#) [Logout](#)

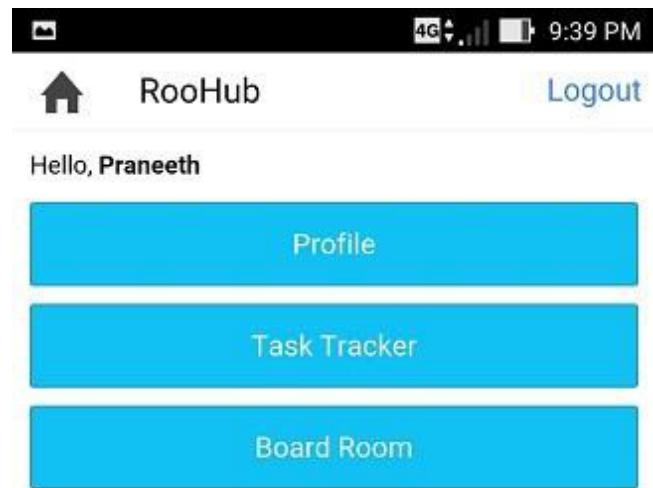
Enter Username
Enter Password
Enter Email
Enter any security question?
Enter your answer

[Register](#)

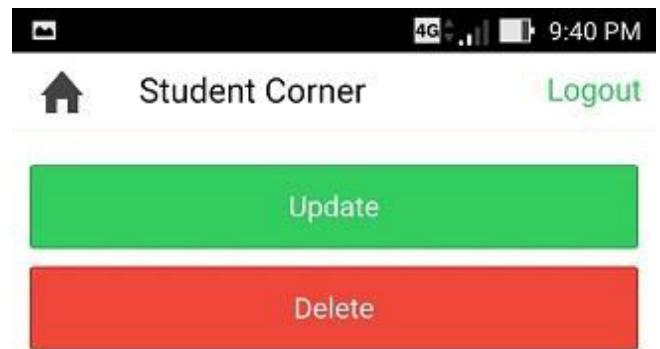








Admin, © **RooHub**





Update Profile

Logout

Enter new Username

Enter new Password

Enter new Email

Update Profile

Subject 1

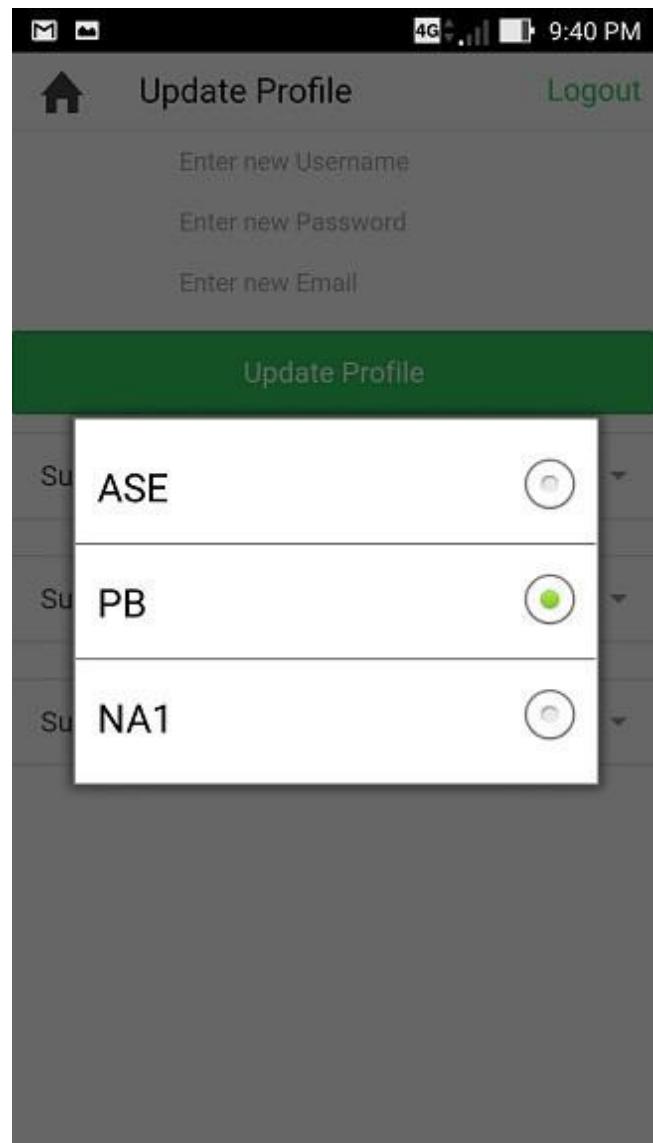
ASE ▾

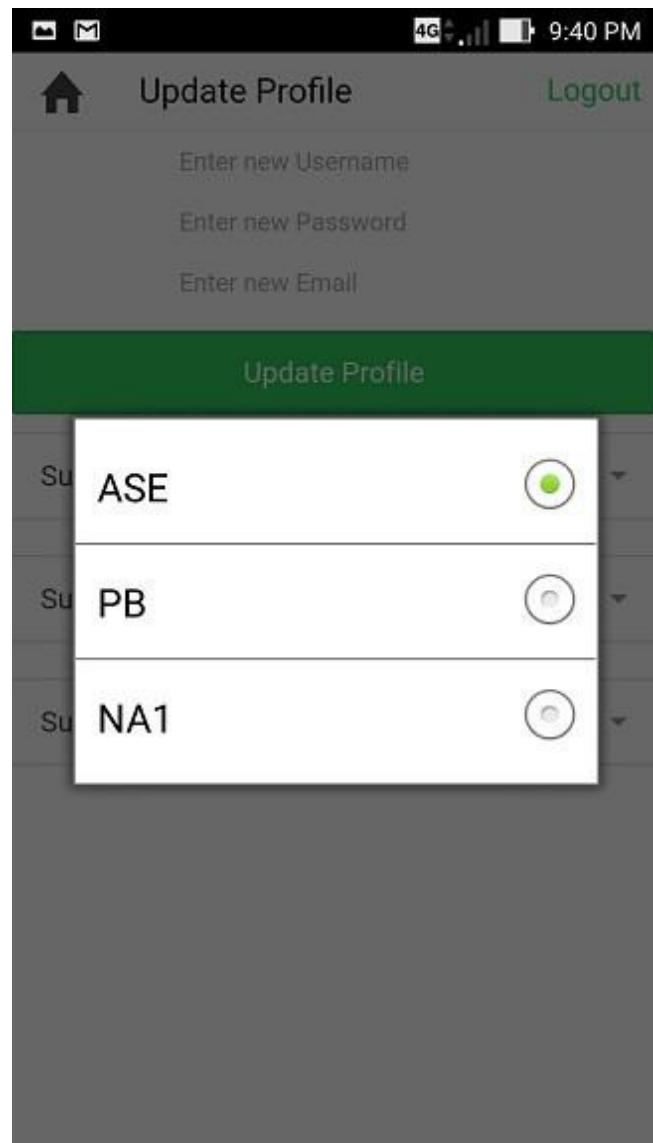
Subject 2

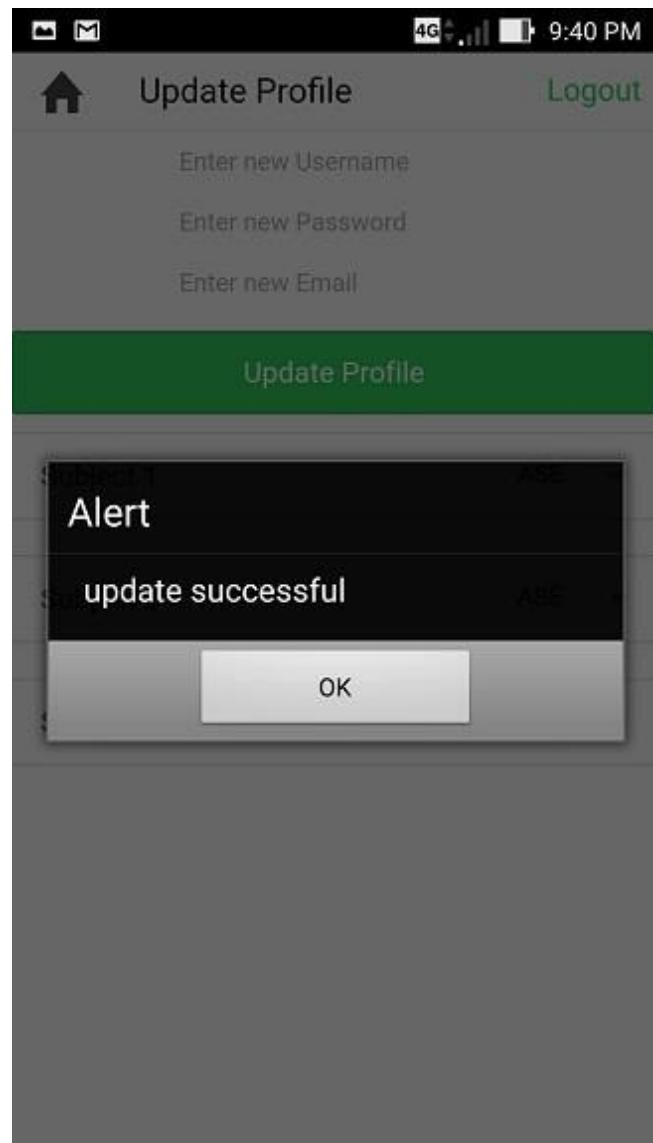
PB ▾

Subject 3

NA1 ▾









Update Profile

[Logout](#)

Ram

Newpassword

Ram123@gmail.com

[Update Profile](#)

Subject 1

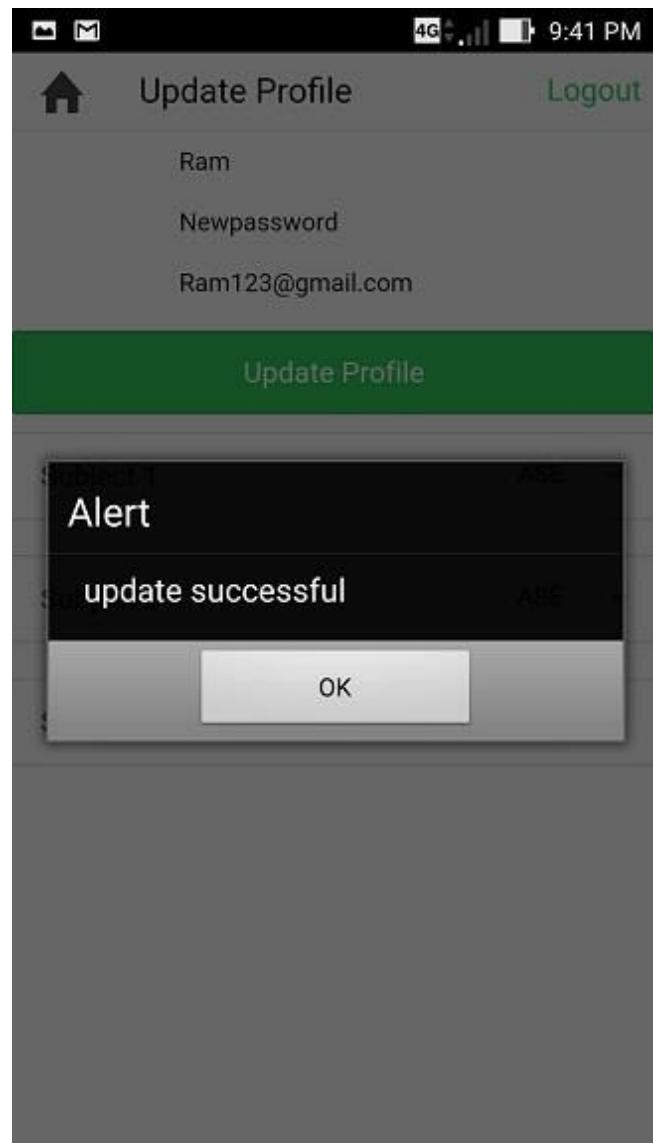
ASE ▾

Subject 2

ASE ▾

Subject 3

NA1 ▾





RooHub

[Logout](#)

Welcome to Boardrooms

[Subject 1](#)

[Subject 2](#)

[Subject 3](#)

Following are the screenshots of the Database before and after updating the info.

This screenshot shows a MongoDB interface displaying four user documents. Each document has an '_id' field containing a ObjectId, a 'username' field, a 'password' field, and an 'email' field. The 'username' fields are 'Sreeram', 'Praneeth', 'Shanmukh', and 'teja'. The 'password' and 'email' fields are all '123456' and 'ram@gmail.com' respectively. Each document has a delete and edit icon to its right. The top right corner indicates '1 - 4 of 4' records. The bottom left shows 'records / page' set to 10, and the bottom right shows '1 - 4 of 4' again.

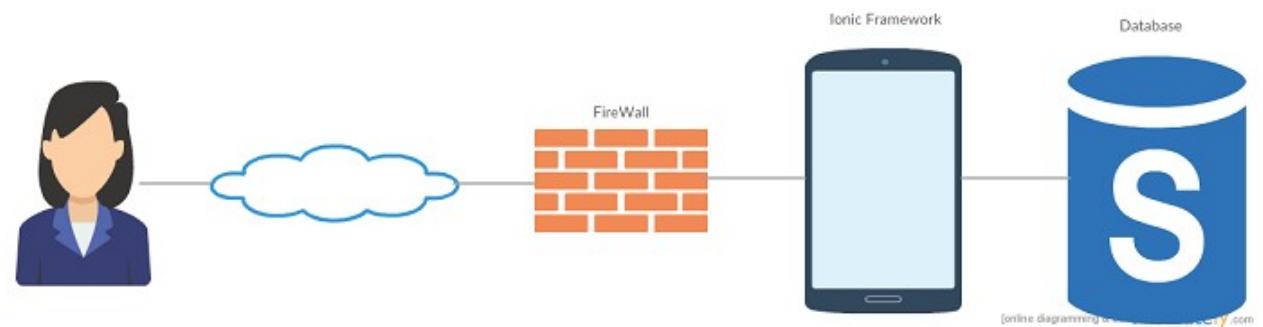
```
{ "_id": { "$oid": "56e3910de4b06f19d4bb6bf6" }, "username": "Sreeram", "password": "123456", "email": "ram@gmail.com" } { "_id": { "$oid": "56e39132e4b06f19d4bb6cfcd" }, "username": "Praneeth", "password": "123456", "email": "praneeth@gmail.com" } { "_id": { "$oid": "56e3919ae4b0ced84db6b687" }, "username": "Shanmukh", "password": "123456", "email": "shanmukh@gmail.com" } { "_id": { "$oid": "56e391cfe4b06f19d4bb716b" }, "username": "teja", "password": "123456", "email": "teja@gmail.com" }
```

This screenshot shows a MongoDB interface displaying a single user document. The '_id' field contains the ObjectId '56e3919ae4b0ced84db6b687'. The 'username' field is 'Shanmukh', the 'password' field is '123456', and the 'email' field is 'shanmukh@gmail.com'. The document is shown in a large, dark gray box. The top right corner indicates '1 - 1 of 1' record.

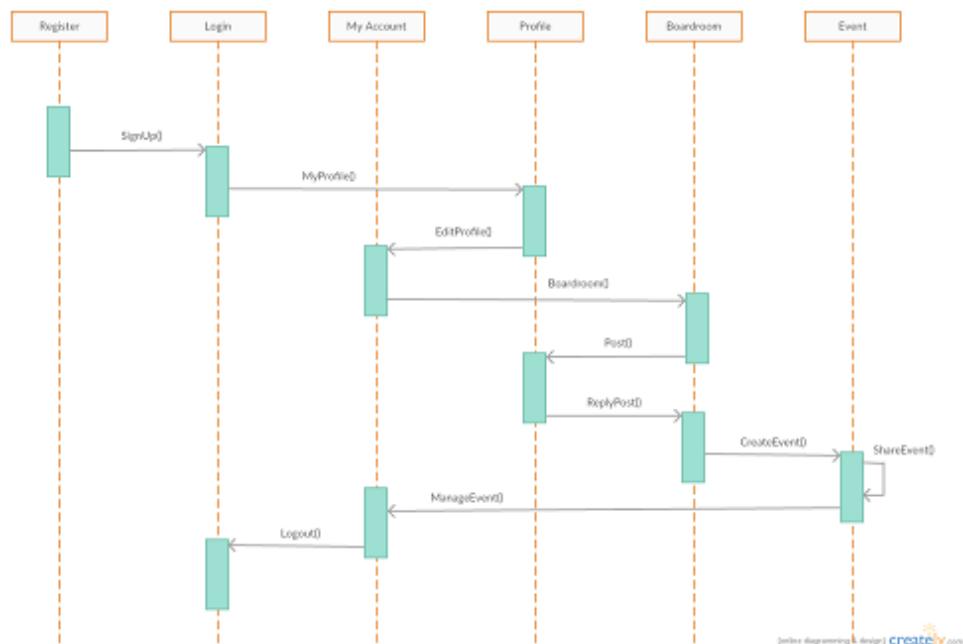
```
{ "_id": { "$oid": "56e3919ae4b0ced84db6b687" }, "username": "Shanmukh", "password": "123456", "email": "shanmukh@gmail.com" }
```

```
{  
  "_id": {  
    "$oid": "56e3919ae4b0ced84db6b687"  
  },  
  "username": "shanmukh",  
  "password": "654321",  
  "email": "shanmukh@gmail.com"
```

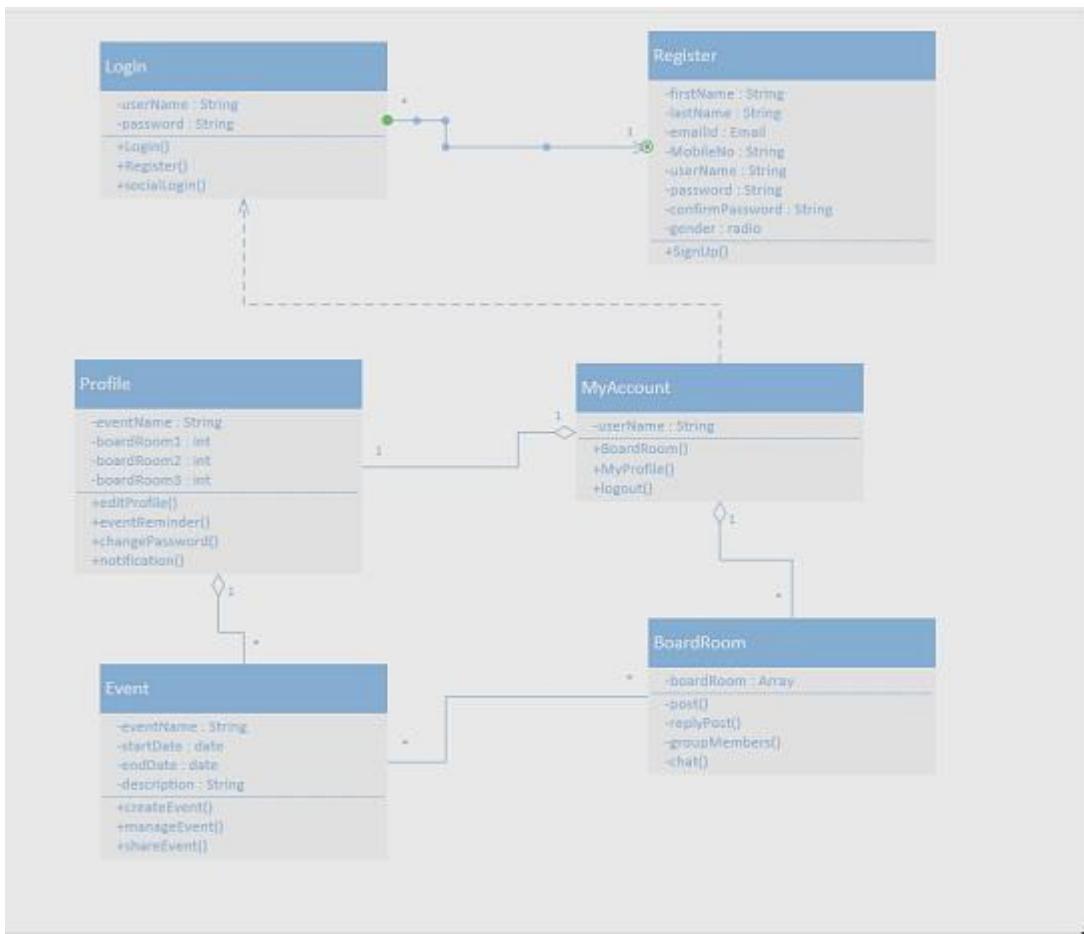
Architecture Diagram:



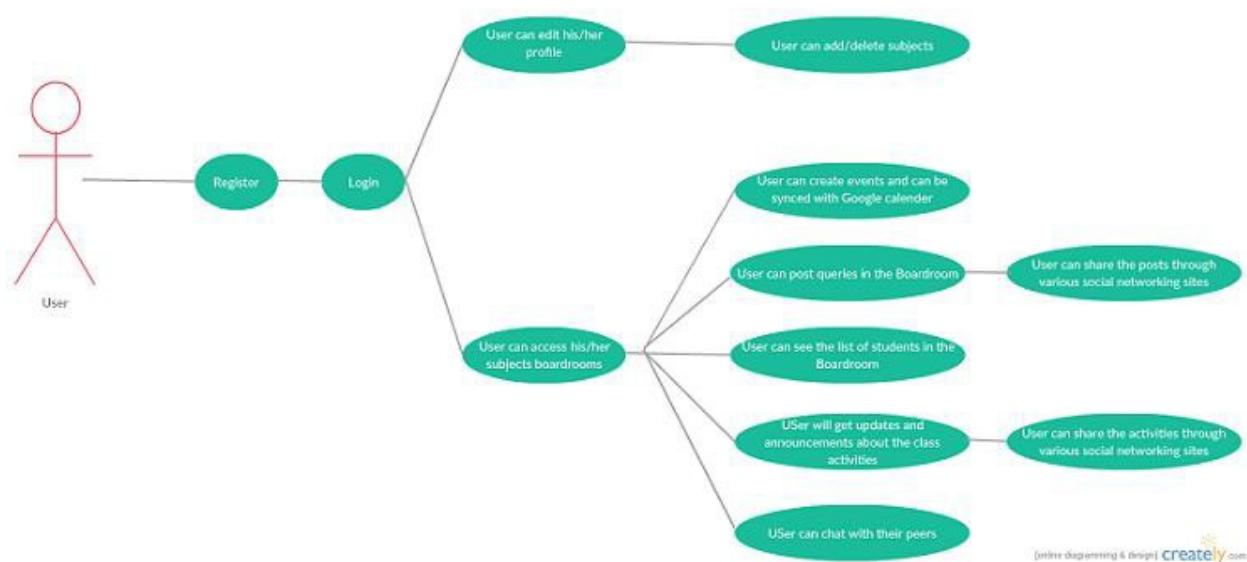
Sequence Diagram:



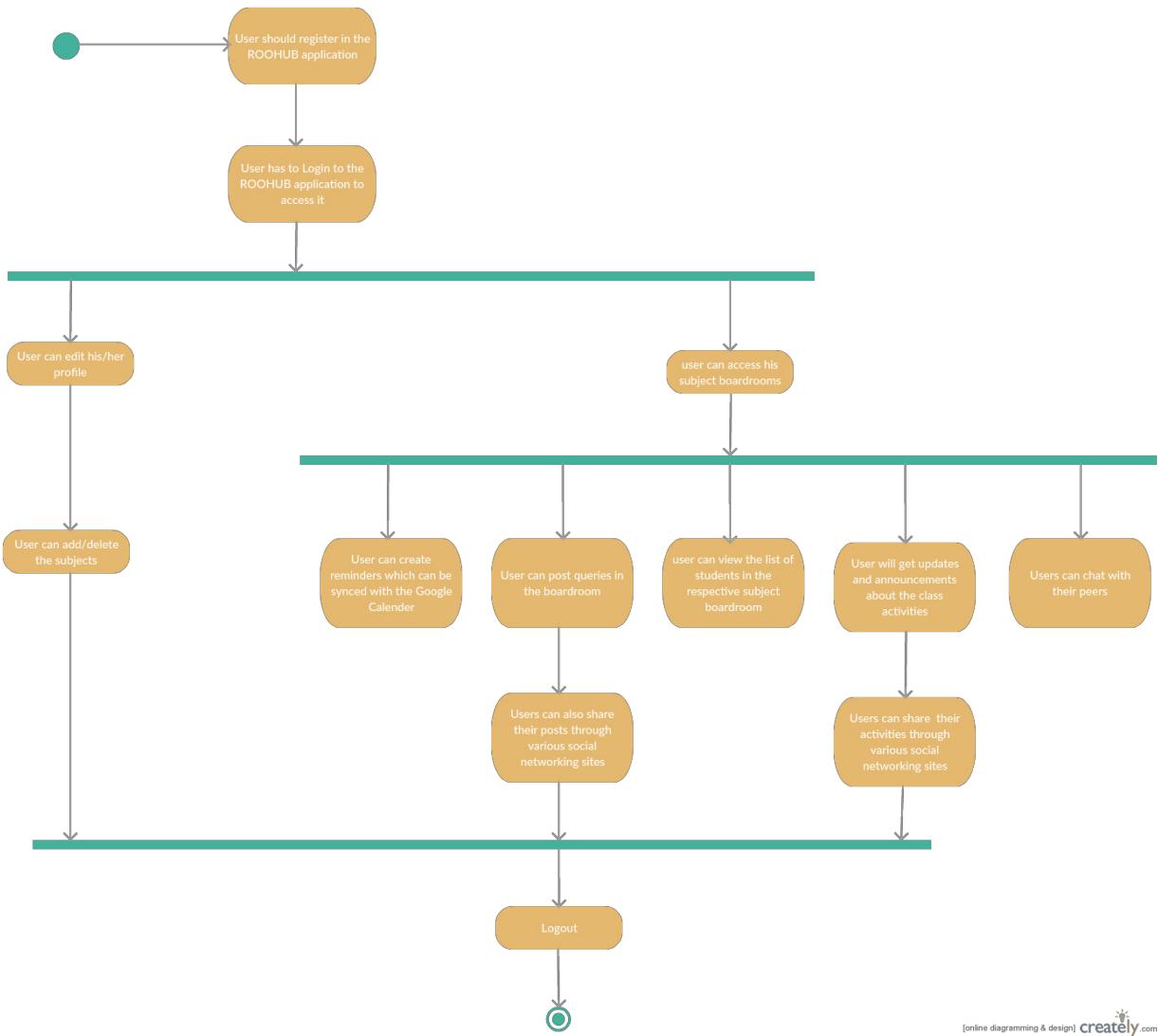
Class Diagram:



Use case Diagram:



Activity Diagram:



User stories:

1) Enroll for subjects:

As a student, I want to enroll for the subjects in the application.

For this, we have given an option for the users to select the subjects that they have taken while registering.

2) Posting Updates:

As a member in the boardroom, I want to post updates in the boardroom.

For this, we have enabled an option of posting the updates in the boardrooms.

3) Chat with peers:

As a user in the boardroom, I want to chat with the individuals of the boardroom.

For this, we have given an option to chat with the individuals who are present in the boardrooms.

Implementation:

We have migrated from Android Studio to the Ionic framework for implementation of the project.

Server Maintenance:

Database: MongoDB

Deployment:

We have deployed the application in mobile and captured the screenshots. We have explained them in detail in Mock up section above.

GitHub URL for the project documentation and source code

<https://github.com/sreeram66/RooHub-Team8/tree/master/Documentation>

Project management:

Work completed:

From the first increment, we have migrated from native android application to the Hybrid application. In this second increment we have created board rooms for the subjects. We have used MongoDB for the Database as well.

Time taken: 50

hours

Contribution:

Everyone has collectively contributed to the project. Work to be completed:

Posting queries and texting in the boardrooms are yet to be done in the third increment. Time to be taken:

Expected to finish the planned job in nearly 80 hours.

Bibliography:

<http://ionicframework.com/docs/api/>

<http://stackoverflow.com/questions/30917463/how-to-use-a-javascript-function-in-ionic-framework-making-use-of-angular-js>

<https://docs.mongodb.org/ecosystem/tools/http-interfaces/>

Project increment – 3

RooHub Team 8:

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Shanmukha Reddy Aalla	-	01
Tejaswi Ganne	-	11
Sri Praneeth Iyyapu	-	16

Introduction:

The Project RooHub is about creating an application for University students who enrolls in different subjects in a particular course and find it difficult to communicate with their peers efficiently. So, we came up to create this application called RooHub to decrease the hassles of the students by creating boardrooms for each subject they enroll in their course curriculum. In this students can post their queries and can also create tasks.

Objectives:

The main objective of this application is to create a user friendly mobile application which helps students to get added to their subject groups. It also helps students to clarify their doubts by posting queries.

Detail design of Features:

Wireframes:

The application screenshots are as follows:



Register

Enter Username

Enter Password

Enter Email

Enter any security question

Enter your answer

Register



Profile

Update

Delete

Update Profile

Enter new Username

Enter new Password

Enter new Email

Update Profile

Subject 1 ▾

Subject 2 ▾

Subject 3 ▾

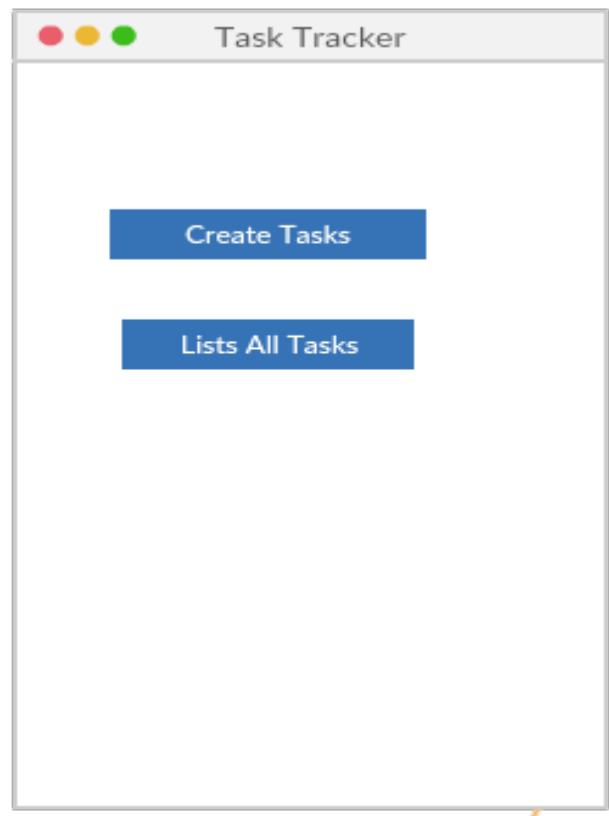
Board Rooms

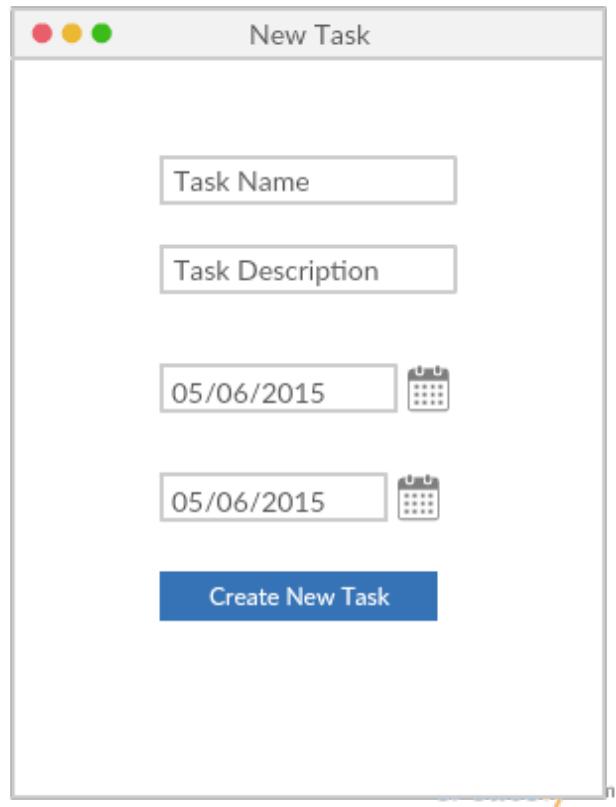
Welcome to board rooms

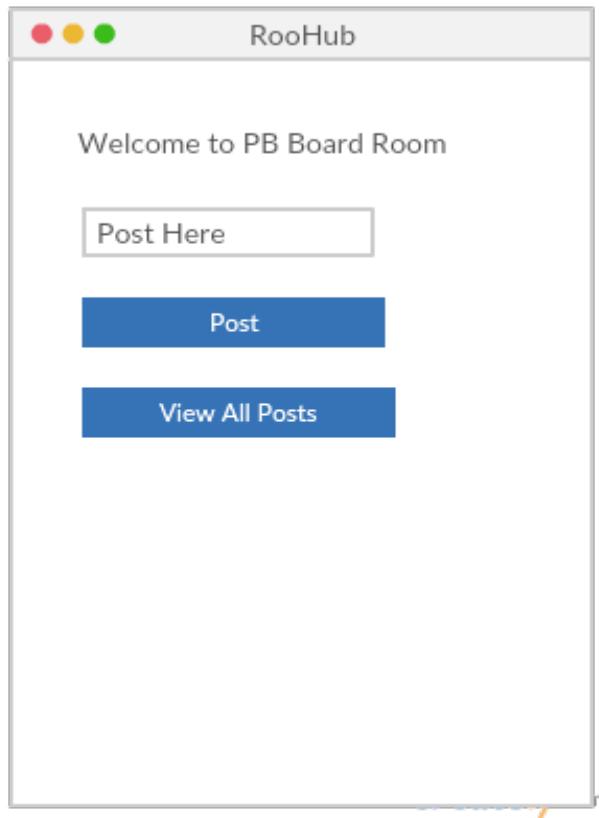
Subject 1

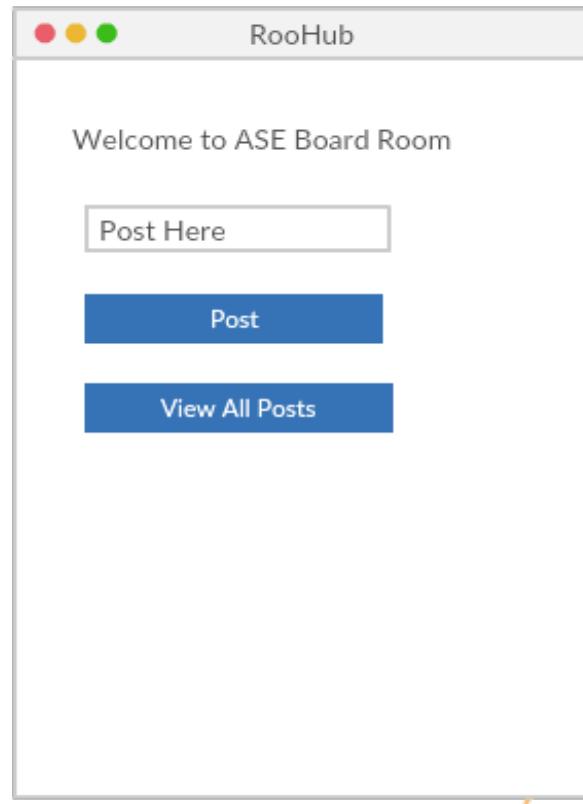
Subject 2

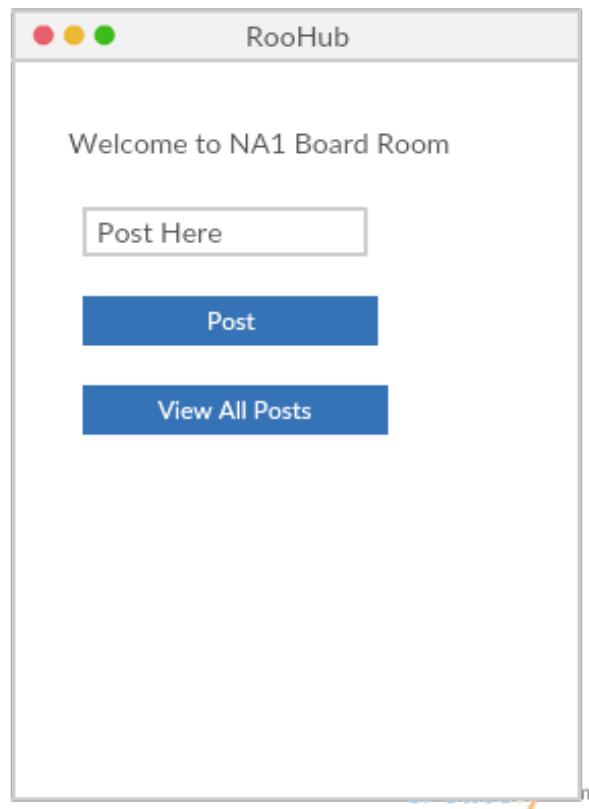
Subject 3











Mockups:

The deployed mobile application screenshots:

- The first page of the application is the Login page.
- User can register by clicking on Register here.
- After successful registration, user can login to the application using the credentials
- After successful login, the user goes to the home page where user can update profile, task tracker and boardrooms.
- In the boardrooms, students can add the subjects to his profile.
- When clicked on particular subject, students can post or see all the posts posted on the discussion board.
- Task tracker is used to create tasks and look up for the tasks created.
- User can update or delete user profile in the Profile page.

3G 7:46

RooHub

Please Sign in

Username

Password

Login

New to RooHub?

[Register Here!!!](#)



A screenshot of a smartphone displaying a registration form. The top status bar shows signal strength, 3G connectivity, battery level, and the time 7:47. Below the status bar, the word "Register" is displayed next to a house icon. To the right of "Register" is a blue "Logout" link. The main area contains five input fields:

- Enter Username
- Enter Password
- Enter Email
- Enter any security question?
- Enter your answer

Below these fields is a large green button with the word "Register" in white.





Register

[Logout](#)

sreeram

.....

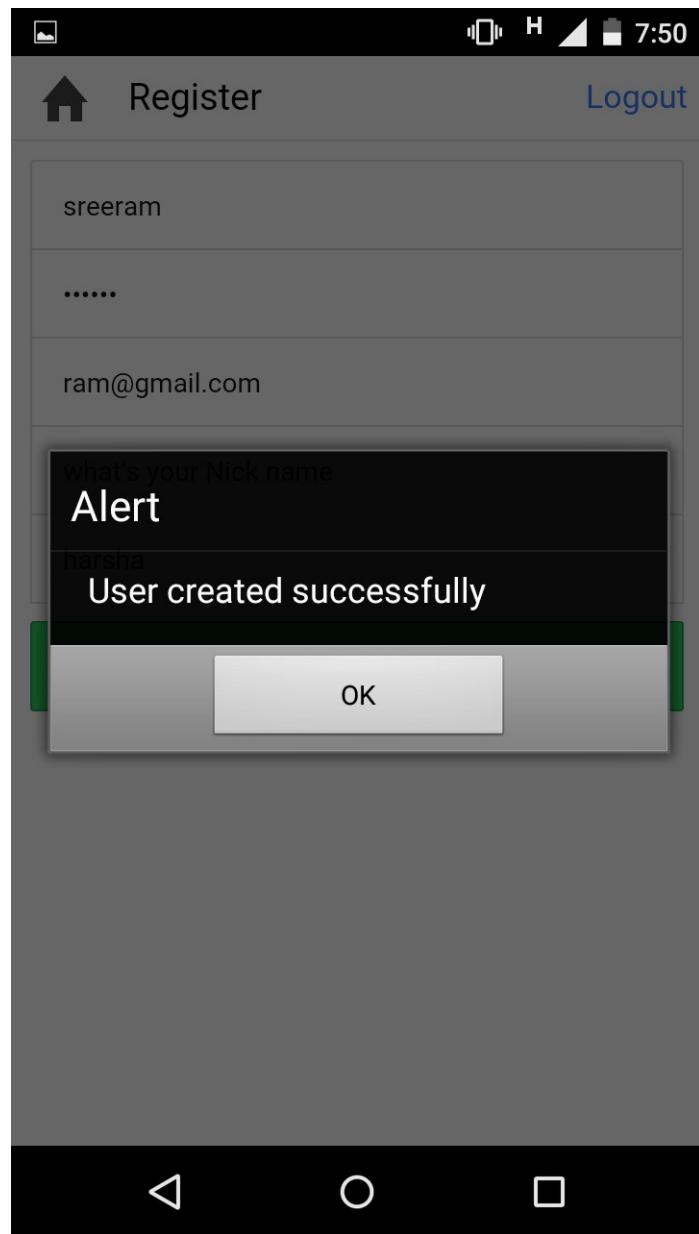
ram@gmail.com

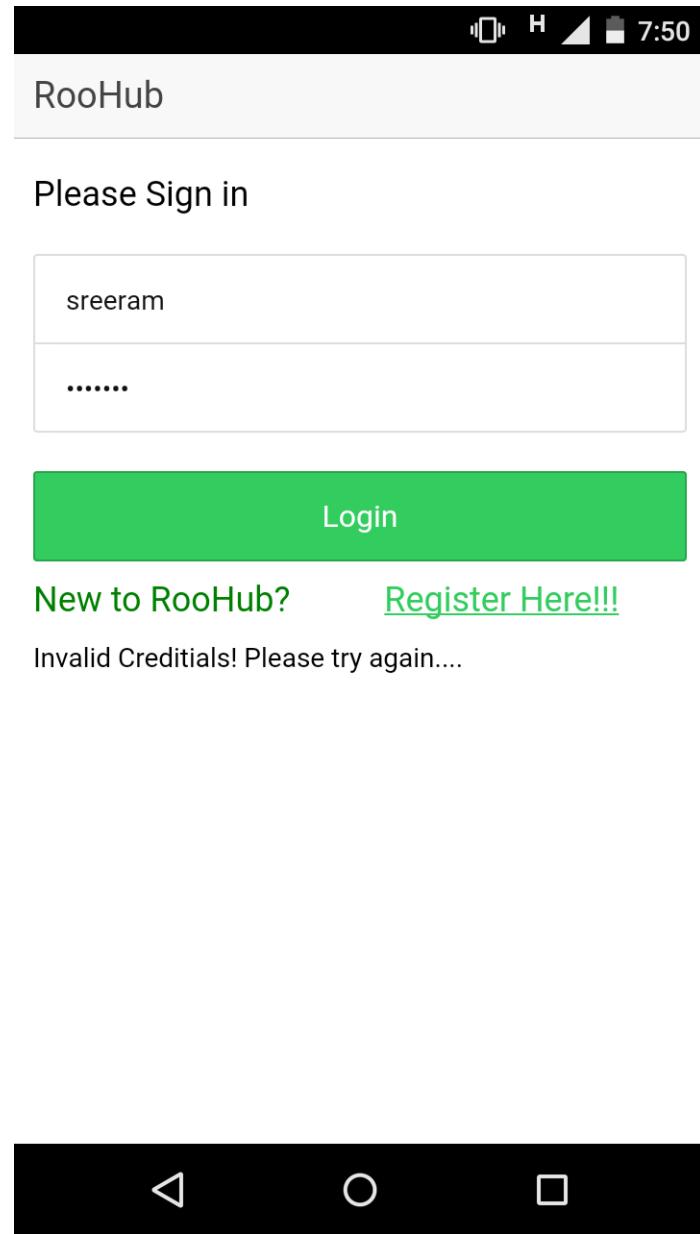
what's your Nick name

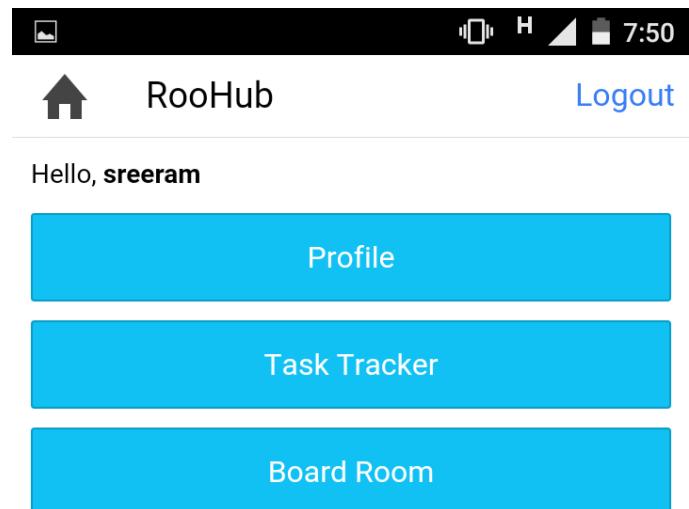
harsha

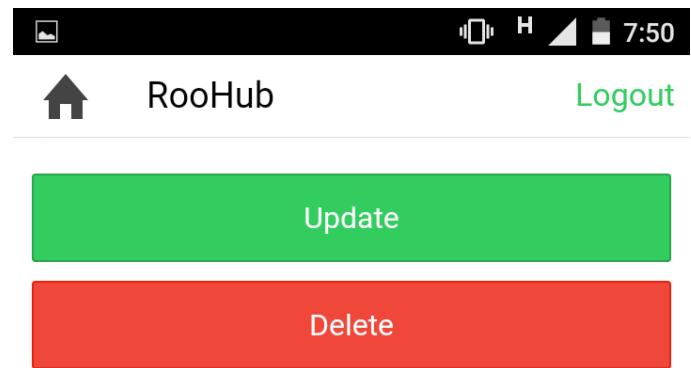
[Register](#)











7:50

 Update Profile [Logout](#)

Enter new Username

Enter new Password

Enter new Email

Update Profile

Subject 1 ASE ▾

Subject 2 PB ▾

Subject 3 NA1 ▾





 Home

TaskTracker

[Logout](#)

[Create Tasks](#)

[list All Tasks](#)





New Task

[Logout](#)

Task Name

Task Description

Start Date:

End Date:

Create New Task





New Task

[Logout](#)

increment 4

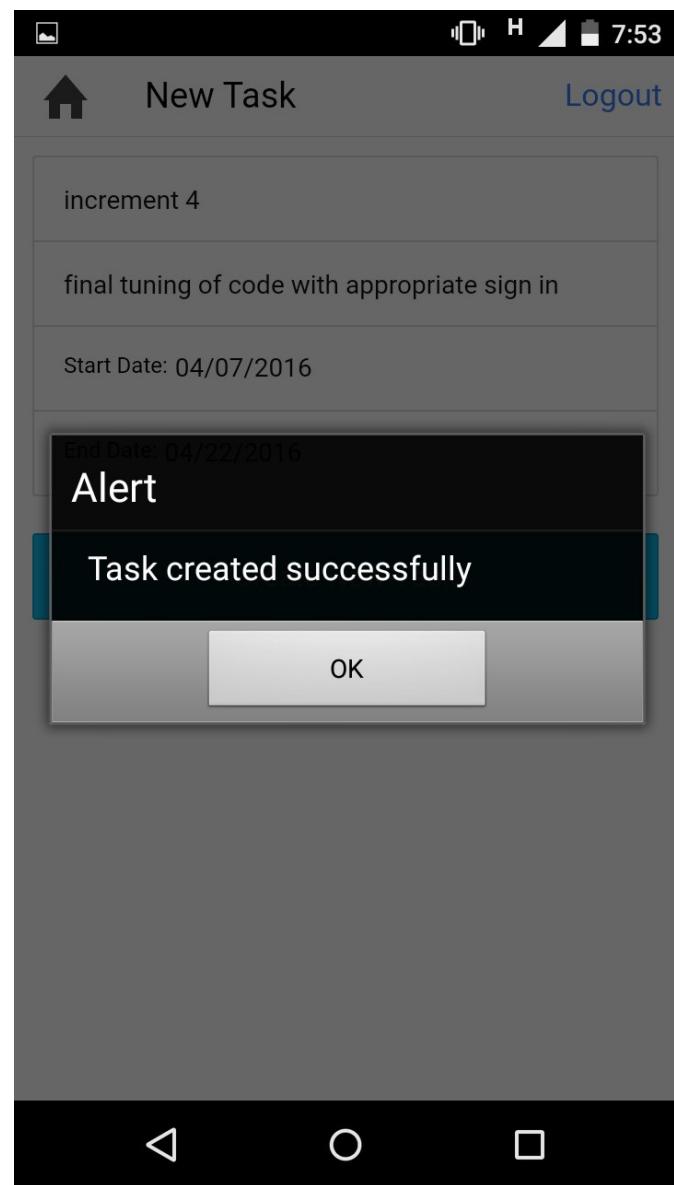
final tuning of code with appropriate sign in

Start Date: 04/07/2016

End Date: 04/22/2016

[Create New Task](#)







 Home

TaskTracker

[Logout](#)

[Create Tasks](#)

[list All Tasks](#)





Home

TaskTracker

[Logout](#)

[Create Tasks](#)

[list All Tasks](#)

```
undefined:ram-ram ram
ramaraju:hello-world
shan:test-testing task
shan:time-please
shan:hey-world
sreeram:increment 4-final tuning of code ...
```





RooHub

[Logout](#)

Welcome to Boardrooms

ASE

PB

NA1





RooHub

[Logout](#)

Welcome to ASE Board room

post here

post

[View All posts](#)





RooHub

[Logout](#)

Welcome to ASE Board room

All the best for exams

[post](#)

[View All posts](#)





RooHub

Logout

Welcome to ASE Board room

post here

post

[View All posts](#)

sree:have a nice day
Teju:hello all
ram:success
ram:increment 3 is done
shan:hello hi
shan:hey
shan:good work
praneeth:assignment is approaching
shanmukh:increment 4 is ready
teja:can anyone update the mid term syllabus
sreeram:All the best for exams





RooHub

[Logout](#)

Welcome to PB Board room

post here

[post](#)

[View All posts](#)

ramaraju:hello pb world
shan:hi hello
ramaraju:oyeee
praneeth:hi everyone
shamukh:where to get presentation topic..
teja:get ready for presentations guys





RooHub

[Logout](#)

Welcome to PB Board room

post here

post

[View All posts](#)

ramaraju:hello pb world
shan:hi hello
ramaraju:oyeee
praneeth:hi everyone
shanmukh:where to get presentation topic..
teja:get ready for presentations guys





RooHub

[Logout](#)

Welcome to PB Board room

post here

post

[View All posts](#)

ramaraju:hello pb world
shan:hi hello
ramaraju:oyeee
praneeth:hi everyone
shamukh:where to get presentation topic..
teja:get ready for presentations guys





RooHub

[Logout](#)

Welcome to NA1 Board room

post here

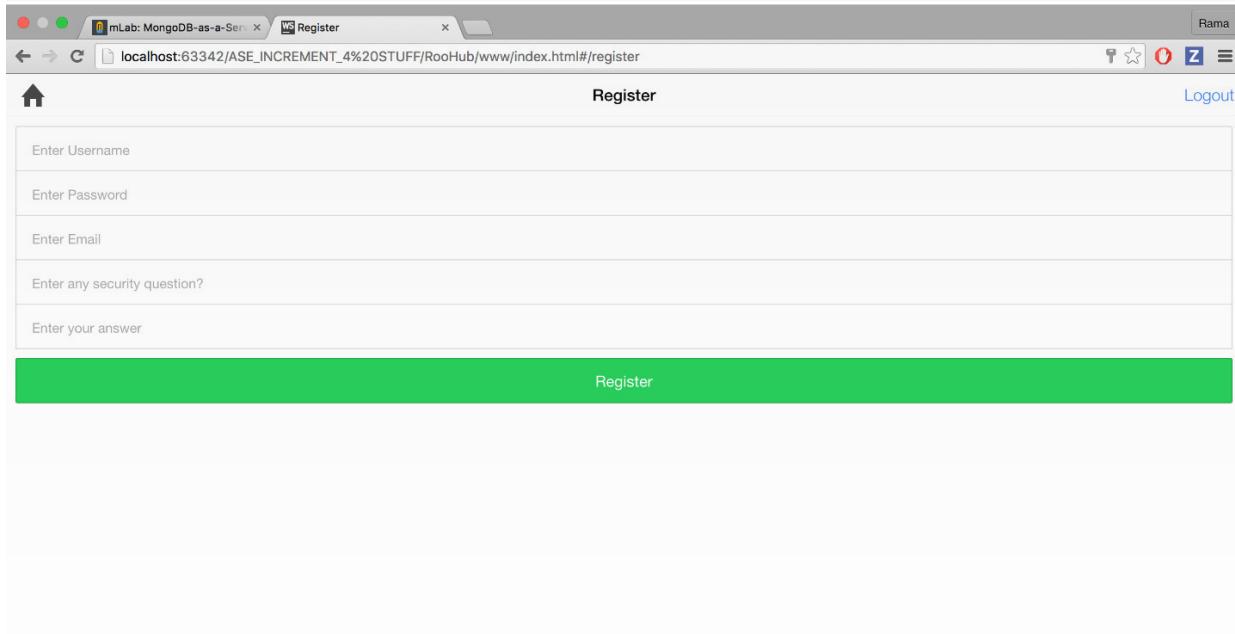
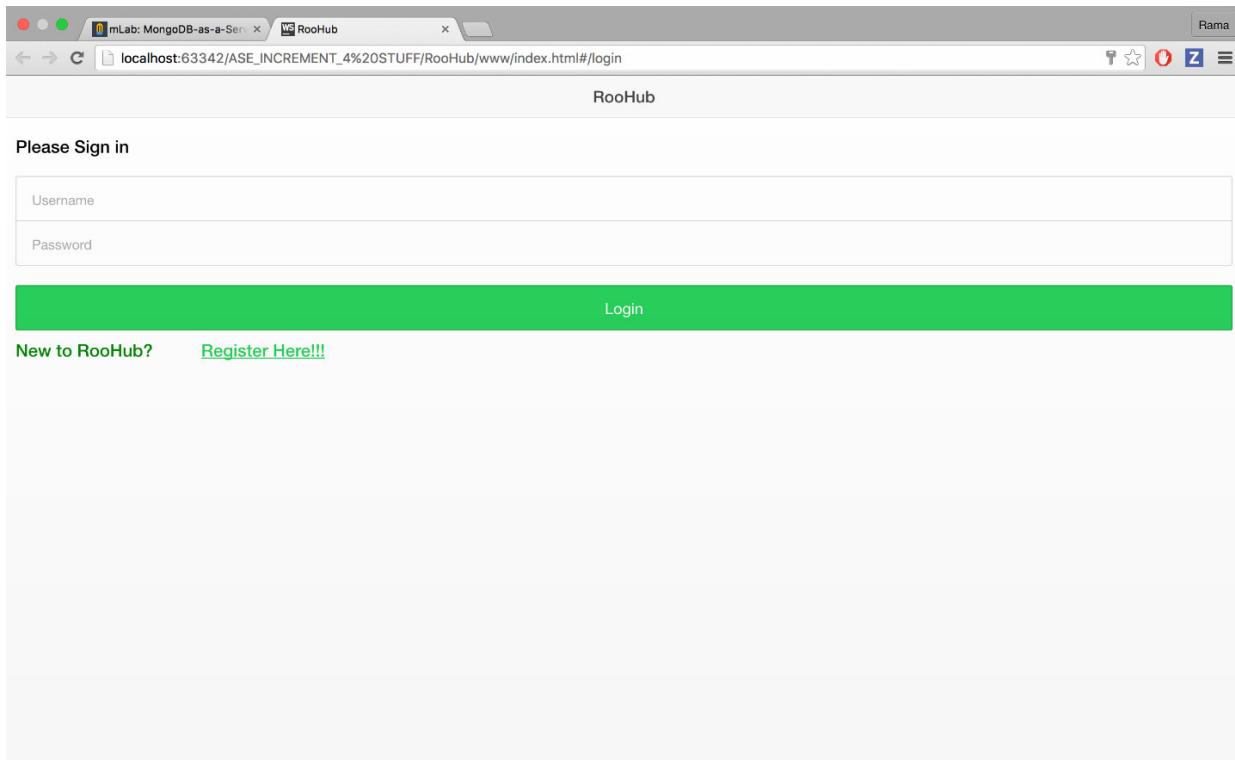
[post](#)

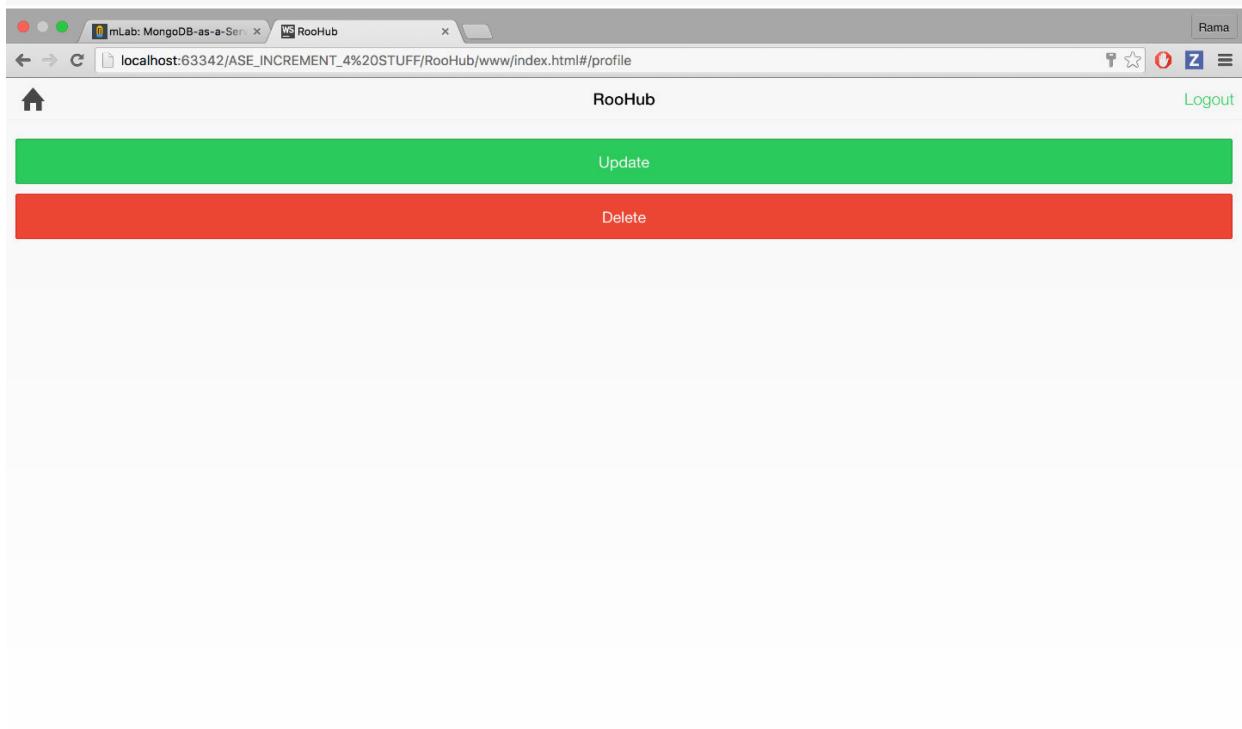
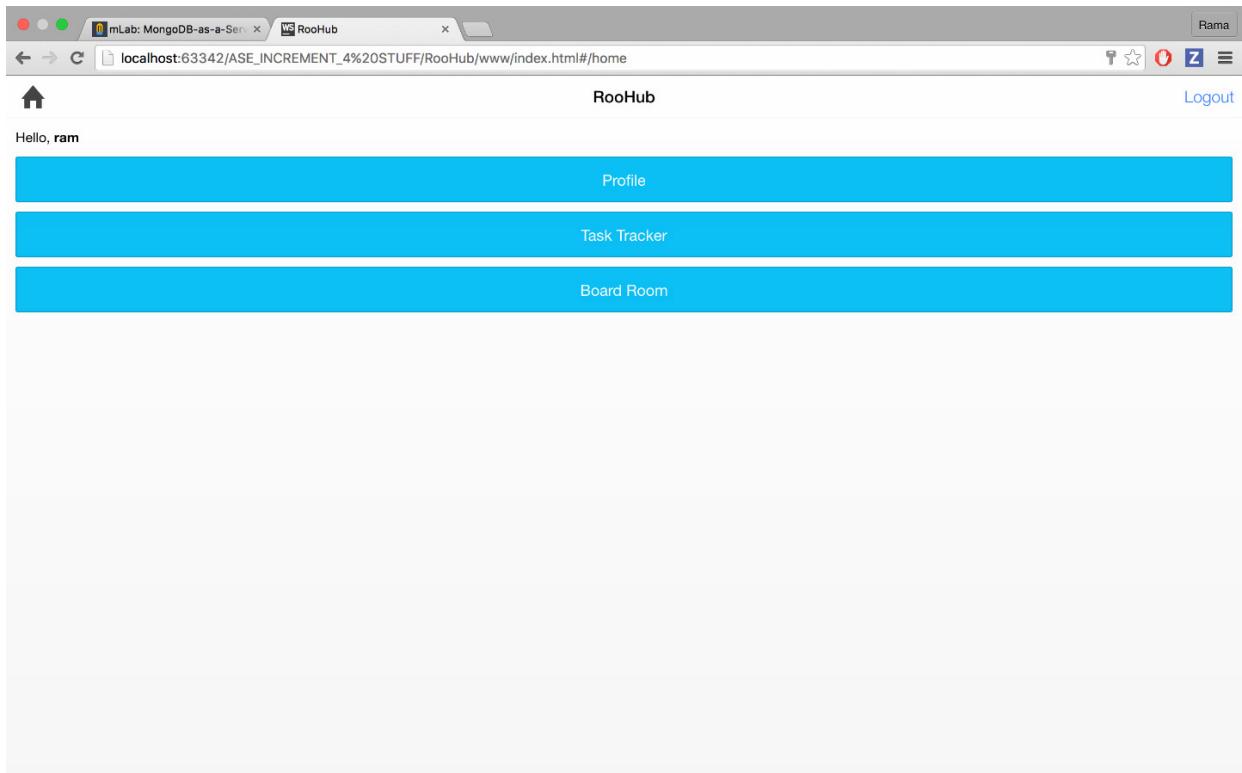
[View All posts](#)

ramaraju:hello na1 world
sree:na1 na1 na1
ram:hello all
shan:hello hello hi hi
praneeth:quiz marks updated
shanmukh:happy spring break



Web Deployment screenshots:





mLab: MongoDB-as-a-Service

RooHub

localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/update

Rama

Logout

Update Profile

Enter new Username

Enter new Password

Enter new Email

Update Profile

Subject 1	ASE ▾
Subject 2	PB ▾
Subject 3	NA1 ▾

mLab: MongoDB-as-a-Service

RooHub

localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/taskTracker

Rama

Logout

TaskTracker

Create Tasks

list All Tasks

mLab: MongoDB-as-a-Service Create Event Rama

localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/newTask

New Task Logout

Task Name

Task Description

Start Date: mm/dd/yyyy

End Date: mm/dd/yyyy

Create New Task

mLab: MongoDB-as-a-Service Create Event Rama

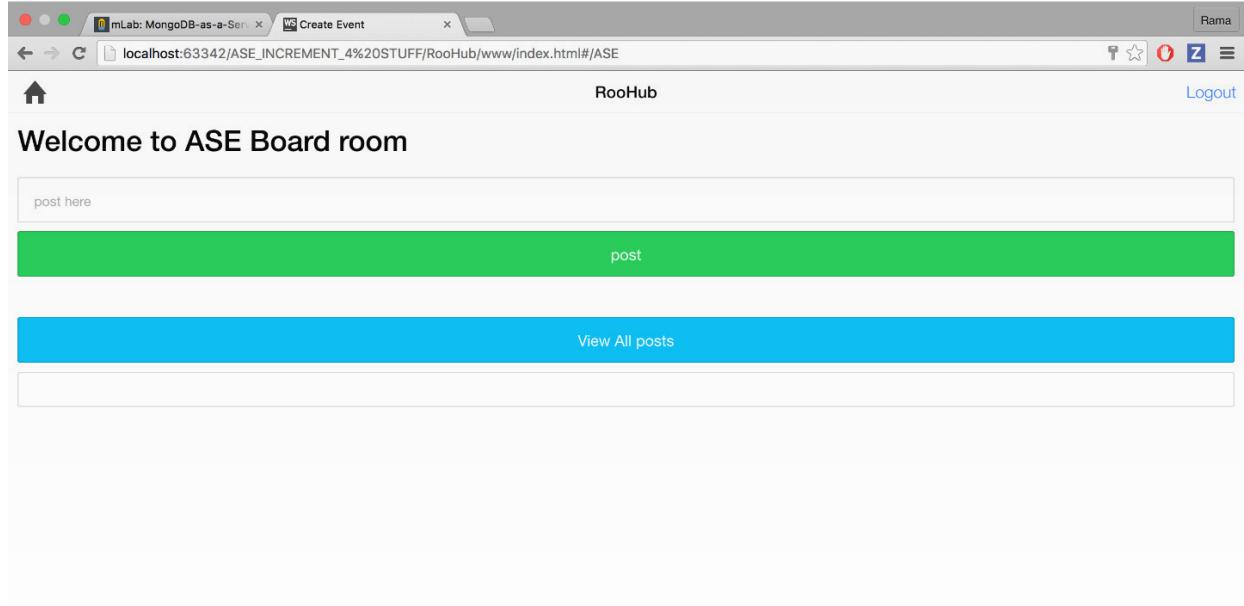
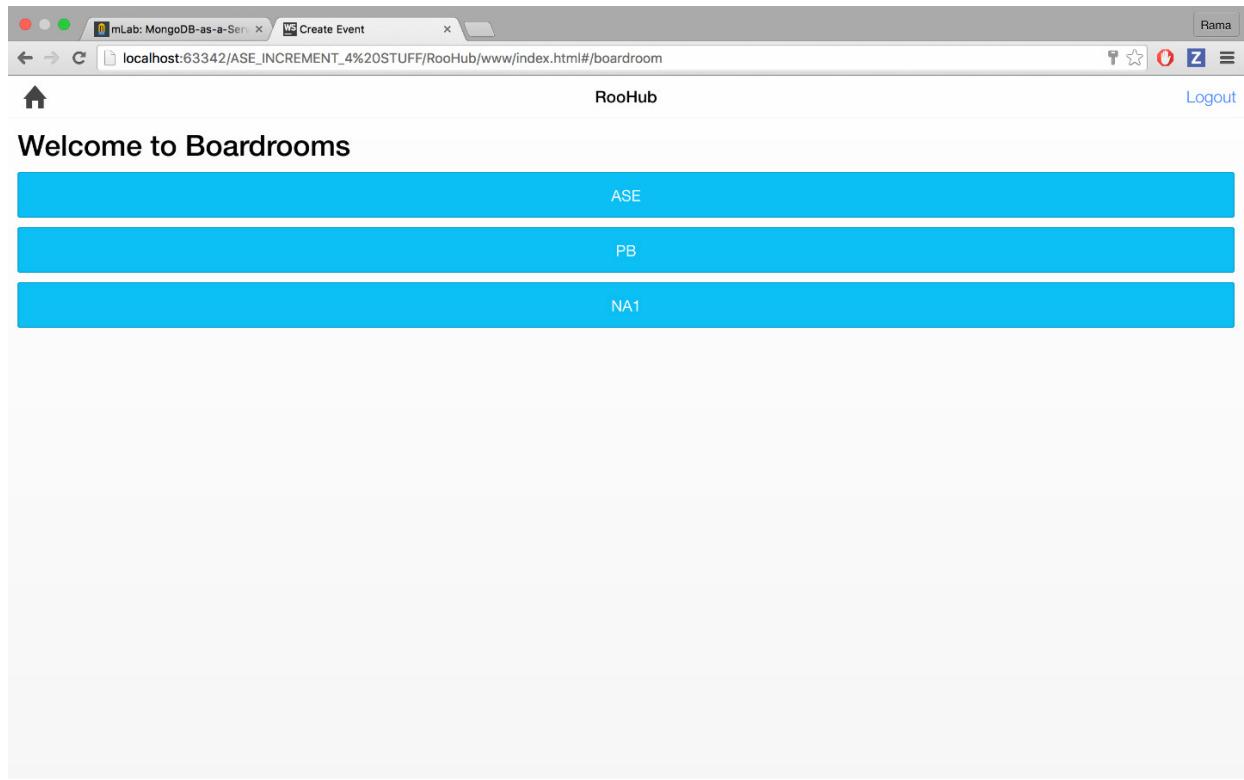
localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/taskTracker

Home TaskTracker Logout

Create Tasks

list All Tasks

undefined:ram-ram ram
ramaraju:hello-world
shan:test-testing task
shan:time-please
shan:hey-world
sreeram:increment 4-final tuning of code with appropriate sign in



The screenshot shows a web browser window titled "mLab: MongoDB-as-a-Service" with a tab labeled "Create Event". The URL is "localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/ASE". The page header includes a home icon, the title "RooHub", and a "Logout" link. Below the header, a section titled "Welcome to ASE Board room" contains a text input field with placeholder "post here" and a green "post" button. A blue "View All posts" button is also present. The main content area displays a list of messages:

```
sree:have a nice day  
Teju:hello all  
ram:success  
ram:increment 3 is done  
shan:hello hi  
shan:hey  
shan:good work  
praneeth:assignment is approaching  
shankar:increment 4 is ready  
teja:can anyone update the mid term syllabus  
sreeram:All the best for exams
```

The screenshot shows a web browser window titled "mLab: MongoDB-as-a-Service" with a tab labeled "Create Event". The URL is "localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/PB". The page header includes a home icon, the title "RooHub", and a "Logout" link. Below the header, a section titled "Welcome to PB Board room" contains a text input field with placeholder "post here" and a green "post" button. A blue "View All posts" button is also present. The main content area is currently empty.

This screenshot shows the PB Board room interface. At the top, there's a header with a home icon, the title "RooHub", and a "Logout" link. Below the header is a white input field with the placeholder "post here". A green button labeled "post" is positioned below the input field. A blue button labeled "View All posts" is located at the bottom of the main content area. The main content area contains a list of messages:

- ramaraju:hello pb world
- shan:hi hello
- ramaraju:oyeee
- praneeth:hi everyone
- shanmukh:where to get presentation topics?
- teja:get ready for presentations guys

This screenshot shows the NA1 Board room interface. The layout is identical to the PB room, with a header, a "post here" input field, a "post" button, a "View All posts" button, and a message list. However, the message list is currently empty.

post here

post

View All posts

ramaraju:hello na1 world
sree:na1 na1 na1
ram:hello all
shan:hello hello hi hi
praneeth:quiz marks updated
shanmukh:happy spring break

Screenshots for the Database:

The screenshot shows the mLab MongoDB-as-a-Service interface. The top navigation bar includes links for WELCOME, PLANS + FEATURES, PRICING, DOCS + SUPPORT, ACCOUNT, and LOG OUT. The user is identified as { user: "sreeram66", account: "Sree Rama Raju" }. The main page displays the 'ase_posts' collection under the 'roohub' database. The 'Documents' tab is selected, showing three documents in a list view. Each document has an 'X' icon for deletion and a pencil icon for editing. The documents are represented as JSON objects:

```

{
  "_id": {
    "$oid": "5704b54fe4b00372f451711c"
  },
  "aseposting": "have a nice day",
  "username": "sree"
}

{
  "_id": {
    "$oid": "5704b58ae4b000c454b2ff62"
  },
  "aseposting": "hello all",
  "username": "Teju"
}

{
  "_id": {
    "$oid": "5704b5bbe4b000c454b3001d"
  },
  "aseposting": "success",
  "username": "ram"
}

```

A sidebar on the right provides information about the 'Documents (aka Objects)' tab, stating: "From the 'Documents' tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab)." It also notes that individual documents can be added, edited, or deleted.

Home : (db : "roohub")

Collection: na1_posts

Documents

Indexes Stats Tools

Delete all documents in collection Add document

Start new search

All Documents

Display mode: list table (edit table view)

records / page: 10 [1 - 6 of 6]

```
{
  "_id": {
    "$oid": "5705448de4b0801e3055f47c"
  },
  "naiposting": "hello nai world",
  "username": "ramaraju"
},
{
  "_id": {
    "$oid": "570544a9e4b0d5ef28c3793d"
  },
  "naiposting": "nai nai nai",
  "username": "sree"
},
{
  "_id": {
    "$oid": "570562bbe4b0801e3057df68"
  },
  "naiposting": "hello all",
  "username": "ram"
}
```

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

Home : (db : "roohub")

Collection: pb_posts

Documents

Indexes Stats Tools

Delete all documents in collection Add document

Start new search

All Documents

Display mode: list table (edit table view)

records / page: 10 [1 - 6 of 6]

```
{
  "_id": {
    "$oid": "57054225e4b0d5ef28c357cc"
  },
  "pbposting": "hello pb world",
  "username": "ramaraju"
},
{
  "_id": {
    "$oid": "570581f8e4b0d5ef28c7e0ff"
  },
  "pbposting": "hi hello",
  "username": "shan"
},
{
  "_id": {
    "$oid": "5705a1b8e4b0d5ef28ca1feb"
  }
}
```

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

mLab: MongoDB-as-a-Service

ObjectLabs Corporation [US] https://mlab.com/databases/roohub/collections/tasks

mLab

WELCOME PLANS + FEATURES PRICING DOCS + SUPPORT ACCOUNT LOG OUT

{ user: "sreeram66", account: "Sree Rama Raju" }

Home : { db : "roohub" } Collection: tasks

Documents Indexes Stats Tools

Documents

--- Start new search ---

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 6 of 6]

```
{
  "_id": {
    "$oid": "57057d39e4b0d5ef28c79182"
  },
  "eventName": "ram",
  "eventDescription": "ram ram",
  "startDate": "2016-04-06T05:00:00Z"
},
{
  "_id": {
    "$oid": "57058080e4b0d5ef28c7c96b"
  },
  "username": "ramaraju",
  "eventName": "hello",
  "eventDescription": "world"
},
{
  "_id": {
    "$oid": "570581c4e4b0d5ef28c7dd59"
  }
}
```

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

mLab: MongoDB-as-a-Service

ObjectLabs Corporation [US] https://mlab.com/databases/roohub/collections/userdata

mLab

WELCOME PLANS + FEATURES PRICING DOCS + SUPPORT ACCOUNT LOG OUT

{ user: "sreeram66", account: "Sree Rama Raju" }

Home : { db : "roohub" } Collection: userdata

Documents Indexes Stats Tools

Documents

--- Start new search ---

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 10 of 14] next > last >>

```
{
  "_id": {
    "$oid": "56e84d12e4b0c00ef55e634"
  },
  "username": "rama"
},
{
  "_id": {
    "$oid": "56e89545e4b01754738ded33"
  },
  "username": "sree",
  "password": "sree",
  "email": "ramel@gmail.com"
},
{
  "_id": {
    "$oid": "56e8f3fbe4b03af478a46e6f"
  }
}
```

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

The screenshot shows the mLab MongoDB-as-a-Service interface. At the top, there's a navigation bar with links for WELCOME, PLANS + FEATURES, PRICING, DOCS + SUPPORT, ACCOUNT, and LOG OUT. The user is logged in as 'sreeram66' with account 'Sree Rama Raju'. Below the navigation is a section for connecting to the mongo shell and a standard MongoDB URI. A help icon is visible on the right.

To connect using the mongo shell:
% mongo ds015929.mlab.com:15929/roohub -u <dbuser> -p <dbpassword>

To connect using a driver via the standard MongoDB URI ([what's this?](#)):
mongodb://<dbuser>:<dbpassword>@ds015929.mlab.com:15929/roohub

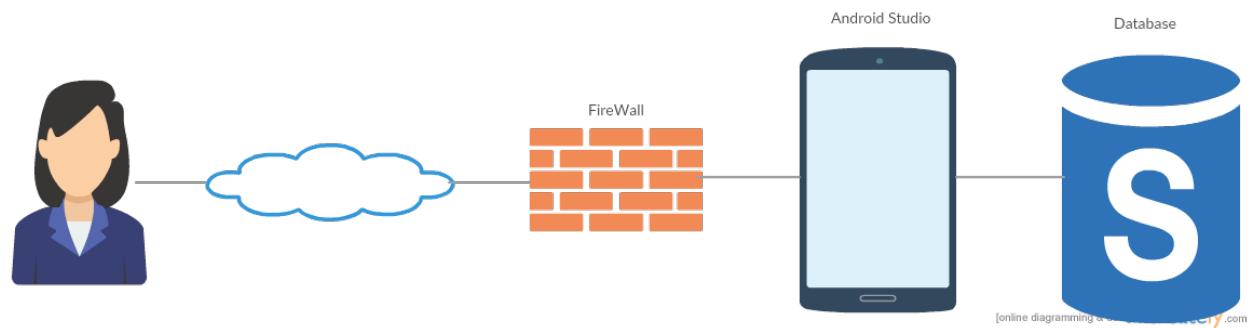
mongod version: 3.0.10

The main area shows the 'Collections' tab selected, displaying a list of collections:

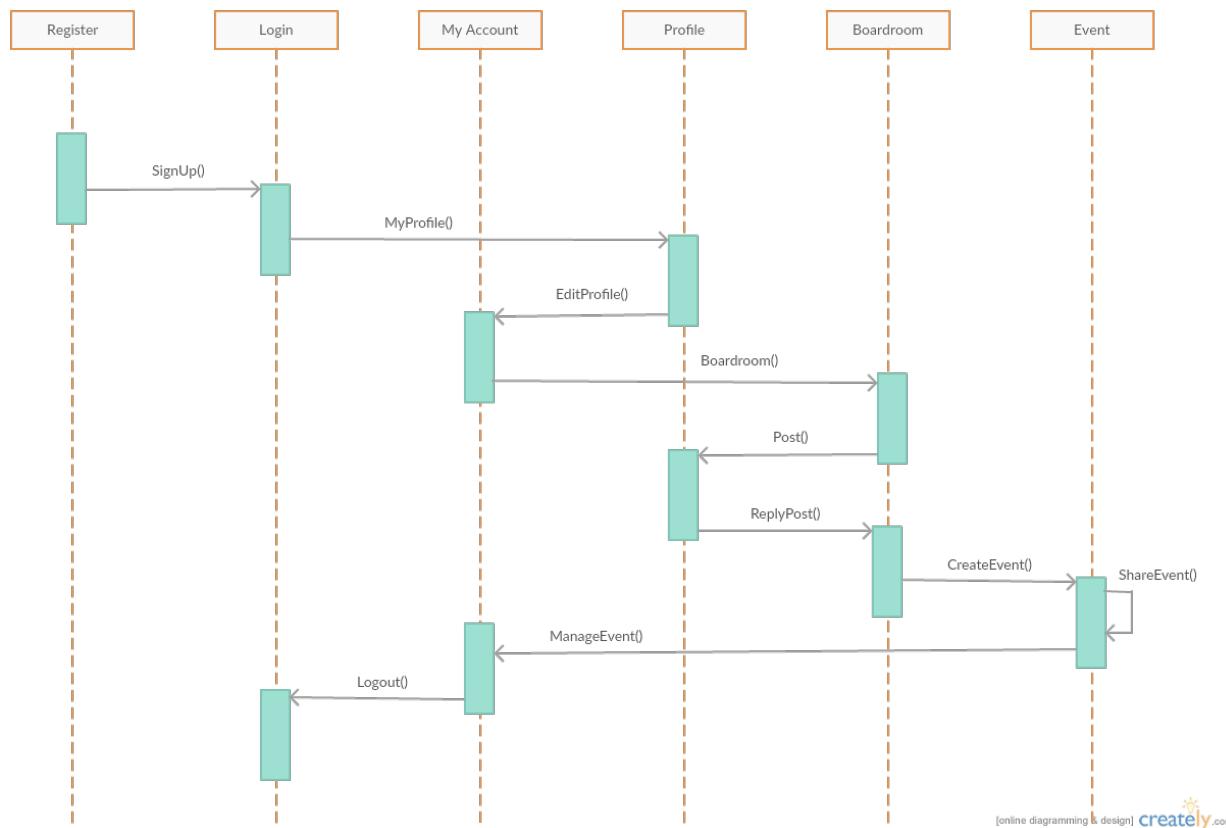
NAME	DOCUMENTS	CAPPED?	SIZE
ase_posts	11	false	9.19 KB
na1_posts	6	false	8.64 KB
pb_posts	6	false	8.64 KB
tasks	6	false	9.39 KB
userdata	14	false	11.02 KB

Buttons for 'Delete all collections' and 'Add collection' are present at the top of the collection list.

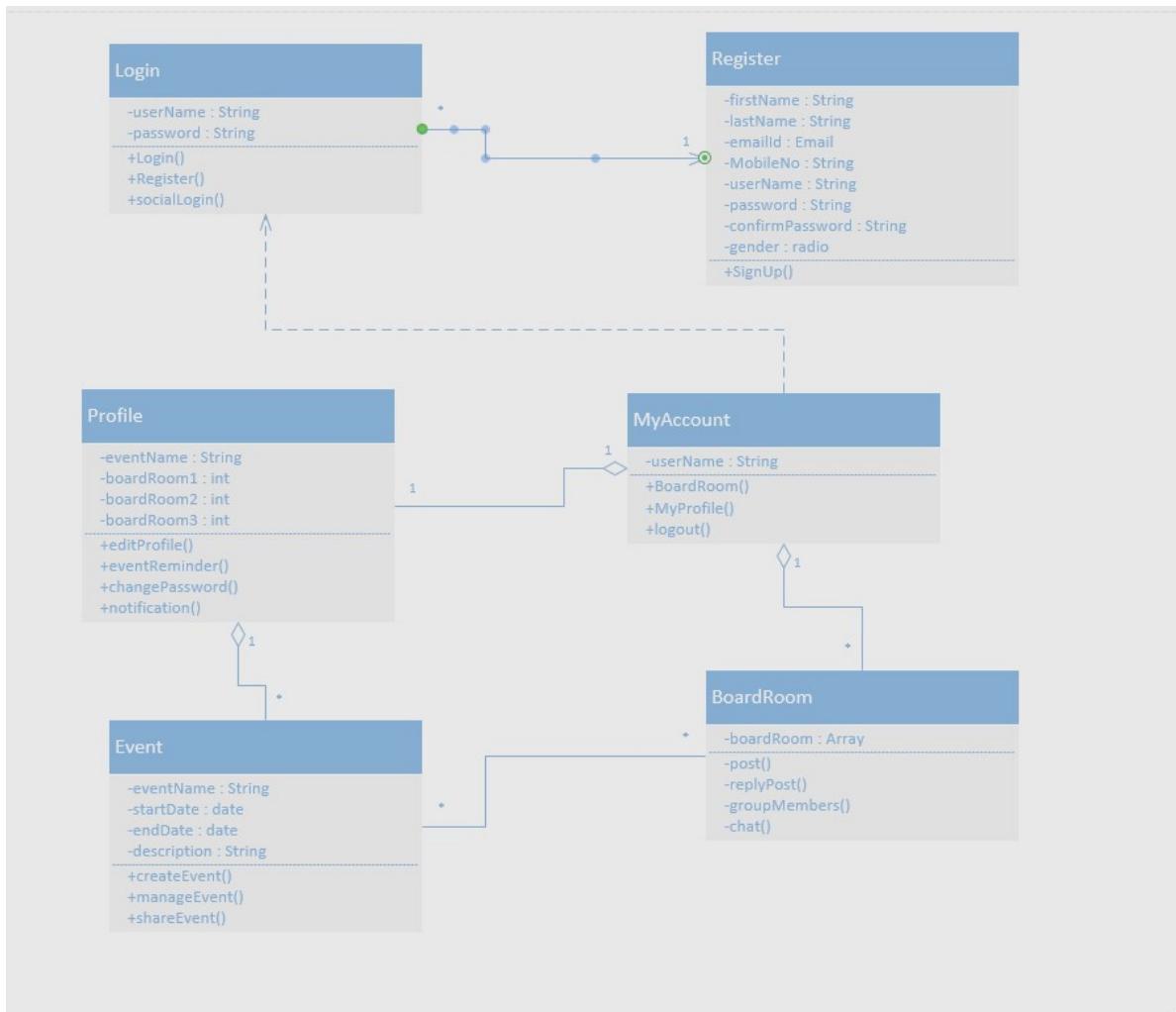
Architecture Diagram:



Sequence Diagram:



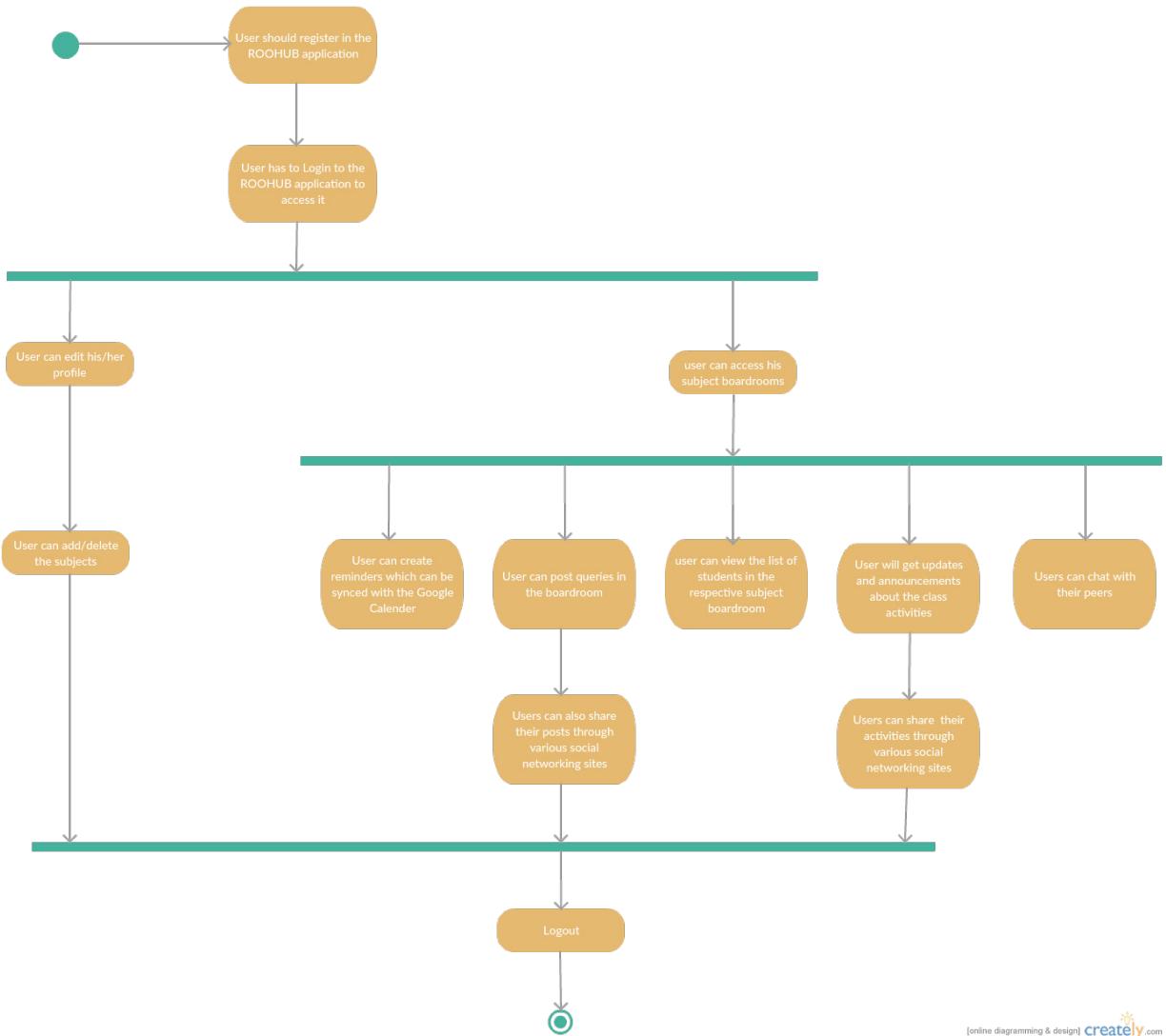
Class Diagram:



Use Case Diagram:



Activity Diagram:



User stories:**Subject enrollment:**

As students, I would like to get enrolled for subjects.

For this, there is an option to get enrolled for subjects in the application.

Discussion Board:

As a user, I would like to post and discuss queries and post updates.

For this, there is an option to post and discuss queries in the boardroom.

Task Tracker:

As a user, I would like to create tasks.

For this, there is an option to create tasks and also view all the tasks created in the boardroom.

Implementation:

We have implemented this on Ionic framework.

Server Maintenance:

Database: MongoDB.

Deployment:

We have deployed it on both mobile and also on web and the captured screenshots are explained above.

GitHub link:

<https://github.com/sreeram66/RooHub-Team8/tree/master/Documentation>

Project Management:

Completed work:

We have implemented our project on Ionic framework. From second increment, the enhancements to third increment includes creation of Boardroom. Task creation and also we can view all the tasks created. Discussion board includes posts and the discussions on the queries posted.

Time

Taken: 80
hours

Contribution:

We have contributed equally to the project.

Work to be completed:

Should concentrate on UI. We are almost there, small enhancements need to be done.

Time to be taken:

Expecting to finish the enhancements within short period of time.

Bibliography:

<http://ionicframework.com/docs/api/>

<http://stackoverflow.com/questions/30917463/how-to-use-a-javascript-function-in-ionic-framework-making-use-of-angular-js>

<https://docs.mongodb.org/ecosystem/tools/http-interfaces/>

Project increment – 4

RooHub Team 8:

Sree Rama Raju Pericharla	-	45
Shanmukha Reddy Aalla	-	01
Tejaswi Ganne	-	11
Sri Praneeth Iyyapu	-	16

Introduction:

Our project RooHub is about creating an Android/iOS application for students of the University who all enrolls in the different classes or courses. It will be very helpful for them since they may feel difficulty in communicating with their peers efficiently. So we came up with this application in both Android and iOS by creating boardrooms and task trackers for each and every subject so that students can post their queries.

Objectives:

The main objective of our application is to decrease the hassles of the students since they can post their updates or queries in the boardrooms.

Features:

The main features of this application include the discussion boards for each and every subject and a task tracker which will be synced in calendars.

Detail design of Features:

Wireframes:

The application screenshots are as follows:



Register

Enter Username

Enter Password

Enter Email

Enter any security question

Enter your answer

Register

Home

Hello, User

Profile

Task Tracker

Board Rooms

Profile

Update

Delete

Update Profile

Enter new Username

Enter new Password

Enter new Email

Update Profile

Subject 1



Subject 2



Subject 3



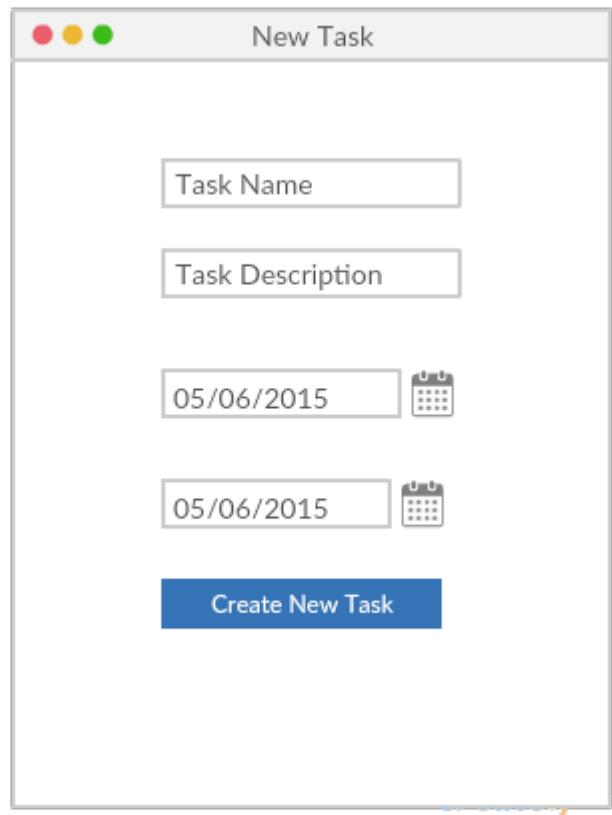
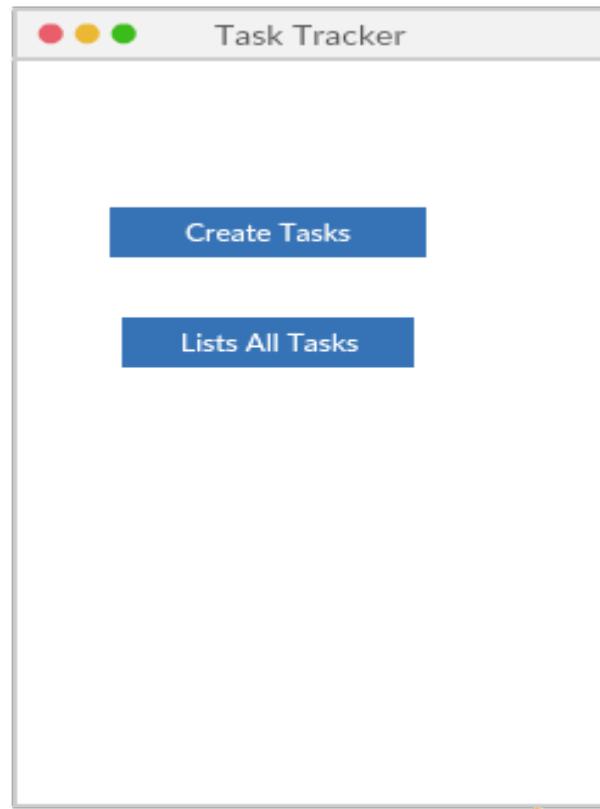
Board Rooms

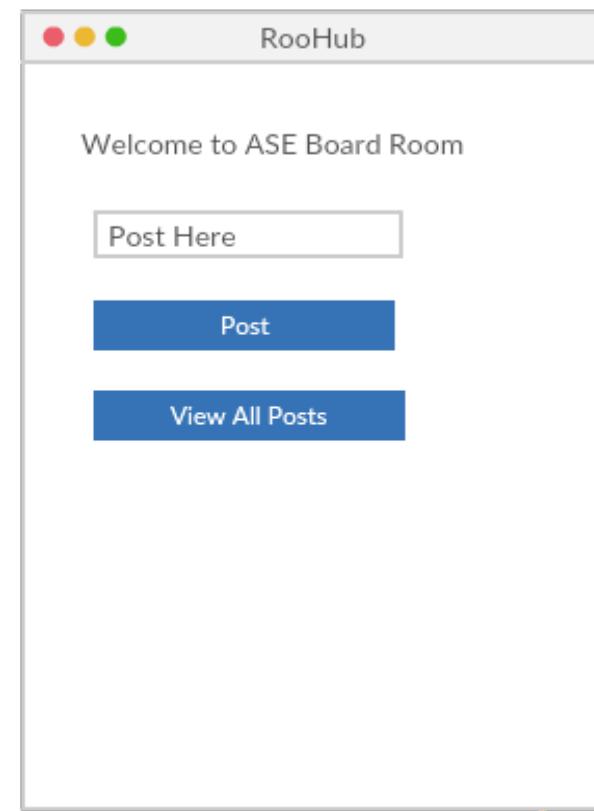
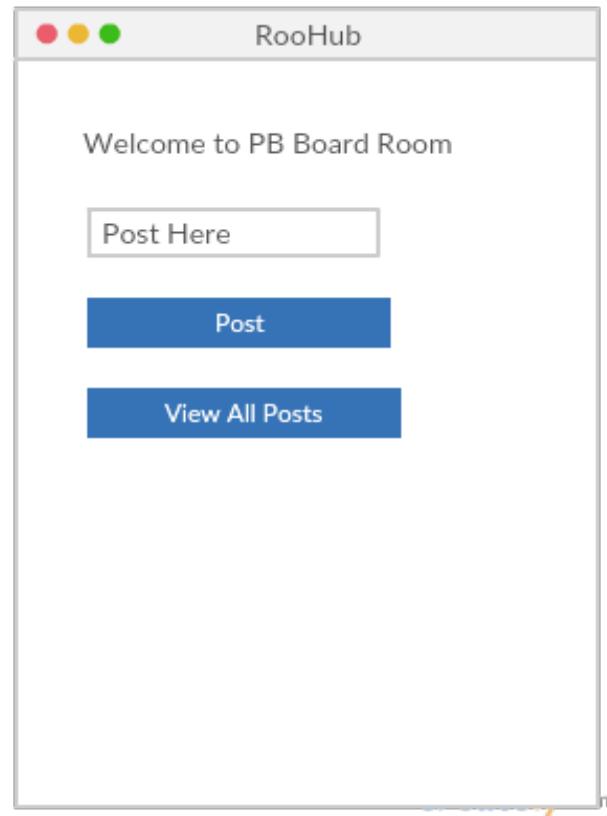
Welcome to board rooms

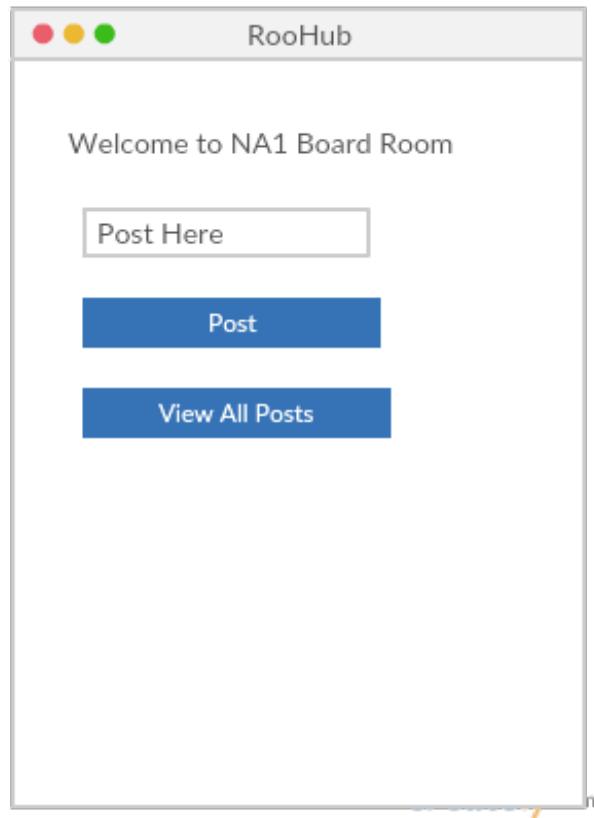
Subject 1

Subject 2

Subject 3





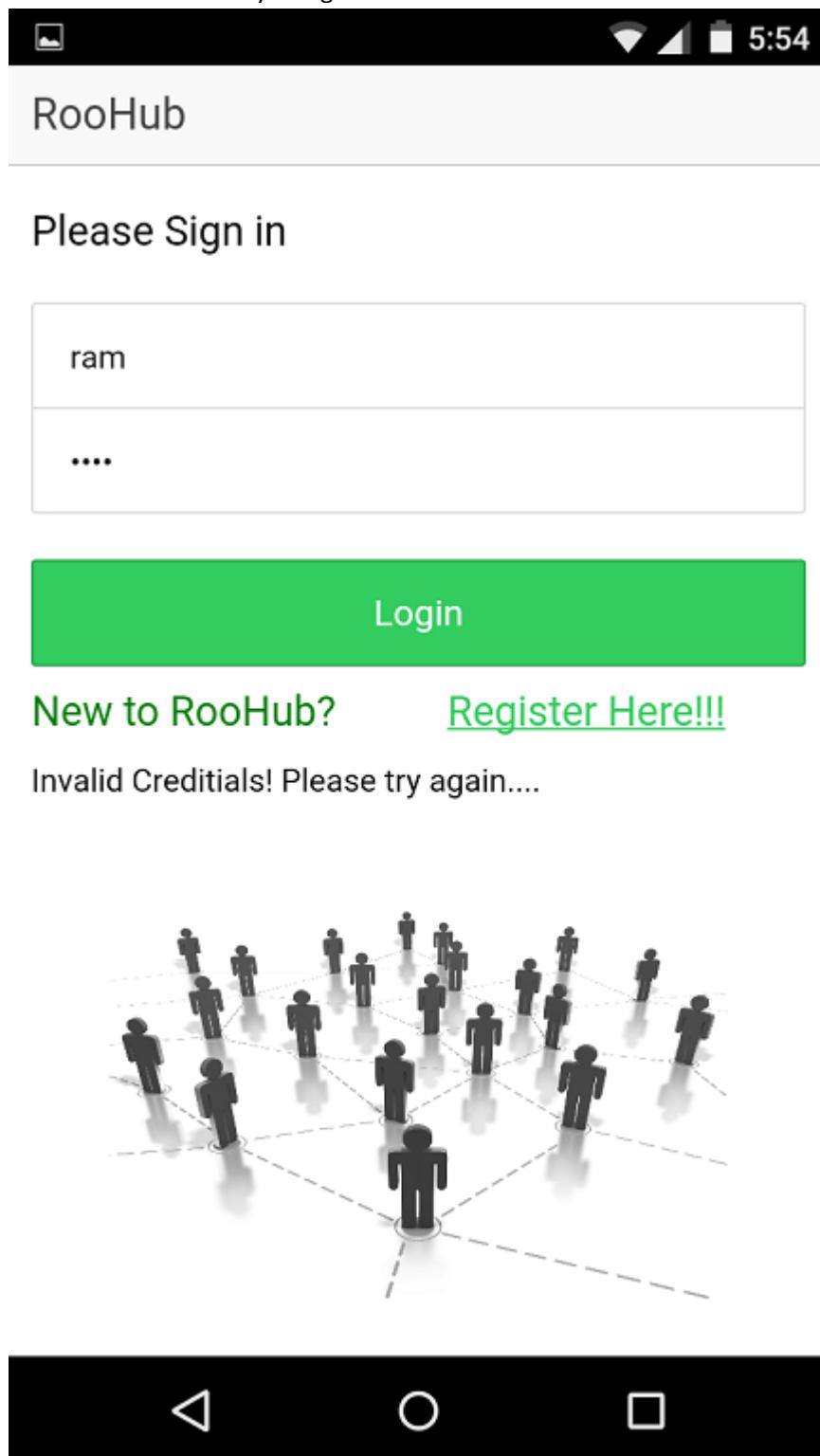


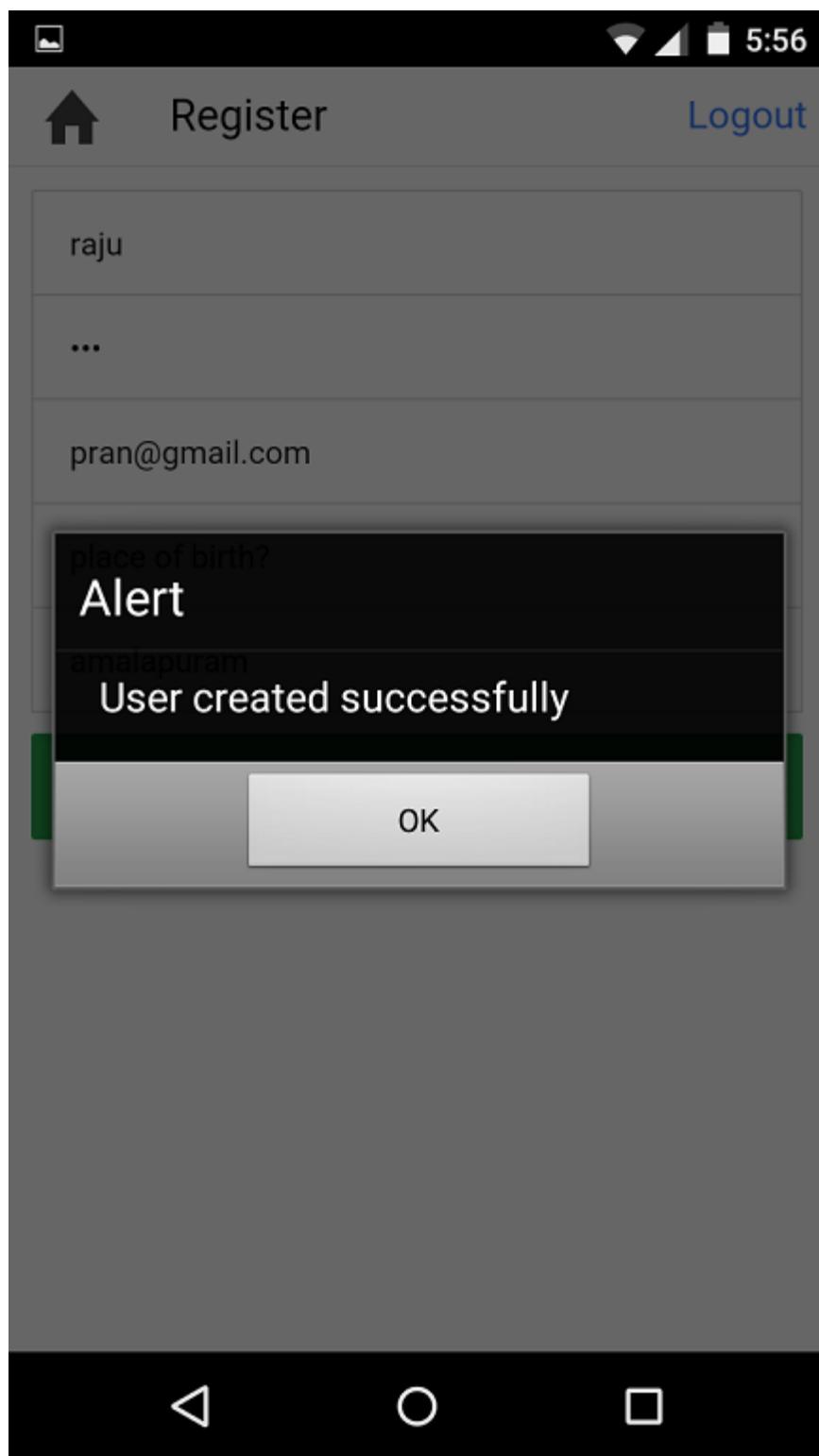
Mockups:

The deployed mobile application screenshots:

- The application's first page consists Login.
- The user can register himself using Register button.
- User can login to the application with his credentials after successful registration.
- The user goes to the homepage after the successful login where he can update his profile, go to task tracker and open boardrooms.
- User can add subjects in his profile in the boardrooms.
- Students can post some information about the subject or post any updates when clicked on any subject.

- We can create tasks by using task tr







RooHub

[Logout](#)

Hello, ram

Welcome to RooHub

[Profile](#)

[Board Room](#)

[Task Tracker](#)

Get Connected

-

Stay Connected





RooHub

Logout

Update

Delete





Update Profile

[Logout](#)

Enter new Username

Enter new Password

Enter new Email

Update Profile

Subject 1

ASE



Subject 2

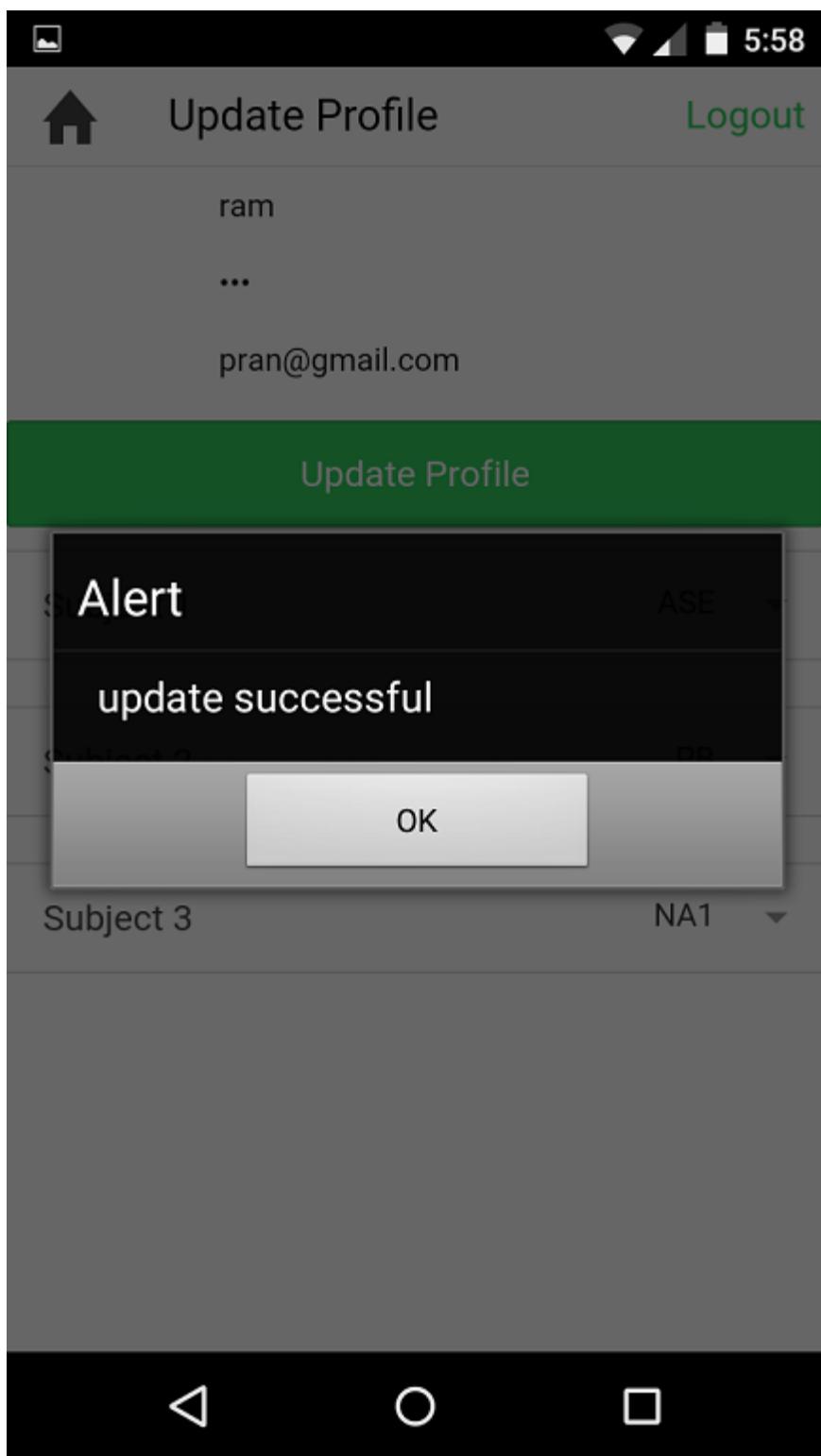
PB



Subject 3

NA1







RooHub

[Logout](#)

Welcome to Boardrooms

ASE

PB

NA1





RooHub

[Logout](#)

Welcome to ASE Board room



post here

post

Teju : Project completed 🎉🎉

Sri : Howdy

Sri : Hi everyone

ram : Hello

ramaraju : hello all

ramaraju : its done

ram : 😊





RooHub

[Logout](#)

Welcome to ASE Board room



fine and ready to access

[post](#)

Teju : Project completed 🎉🎉

Sri : Howdy

Sri : Hi everyone

ram : Hello

ramaraju : hello all

ramaraju : its done

ram : 😊





RooHub

[Logout](#)

Welcome to ASE Board room



post here

post

ram : fine and ready to access

Teju : Project completed 🎉🎉

Sri : Howdy

Sri : Hi everyone

ram : Hello

ramaraju : hello all

ramaraju : its done





RooHub

[Logout](#)

Welcome to PB Board room



post here

post

ram : fine and running successfully

Sri : Hello

Latha : Hi

Latha : Hi

ramaraju : posts are ready

ramaraju : hey

ramaraju : finally





RooHub

[Logout](#)

Welcome to NA1 Board room



post here

post

ramaraju : doing good

ram : finally

ram : hi santosh

nitin : hi guys

ram : hii

ram : hii

ram : we are ready for demo





RooHub

[Logout](#)

Task Tracking Organizer



[Create a Task](#)

List of Events

ram : task 2 - hi

Teju : Task 1 - Nothing

Teju : IOS - Success

Teju : IOS - Success

Teju : IOS - Success

ram : Demo - for ase

Darling : Darling - "Love you Darling "





New Task

[Logout](#)

Task Name

Task Description

Start Date:

End Date:

Create New Task





RooHub

Please Sign in

Username

Password

Login

New to RooHub? [Register Here!!!](#)





New Task

[Logout](#)

increment 4

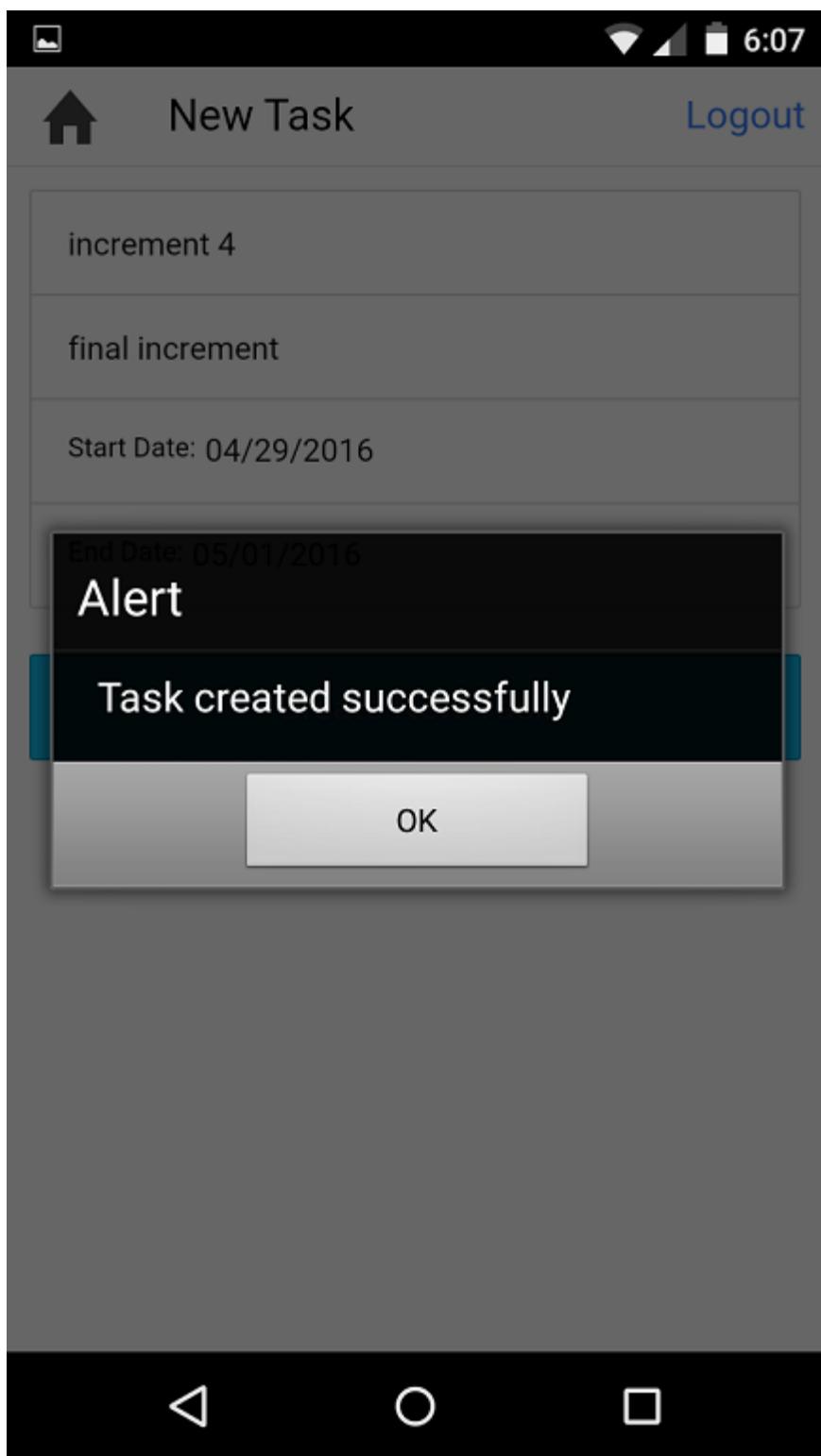
final increment

Start Date: 04/29/2016

End Date: 05/01/2016

[Create New Task](#)







RooHub

[Logout](#)

Task Tracking Organizer



[Create a Task](#)

List of Events

ram : increment 4 - final increment

ram : task 2 - hi

Teju : Task 1 - Nothing

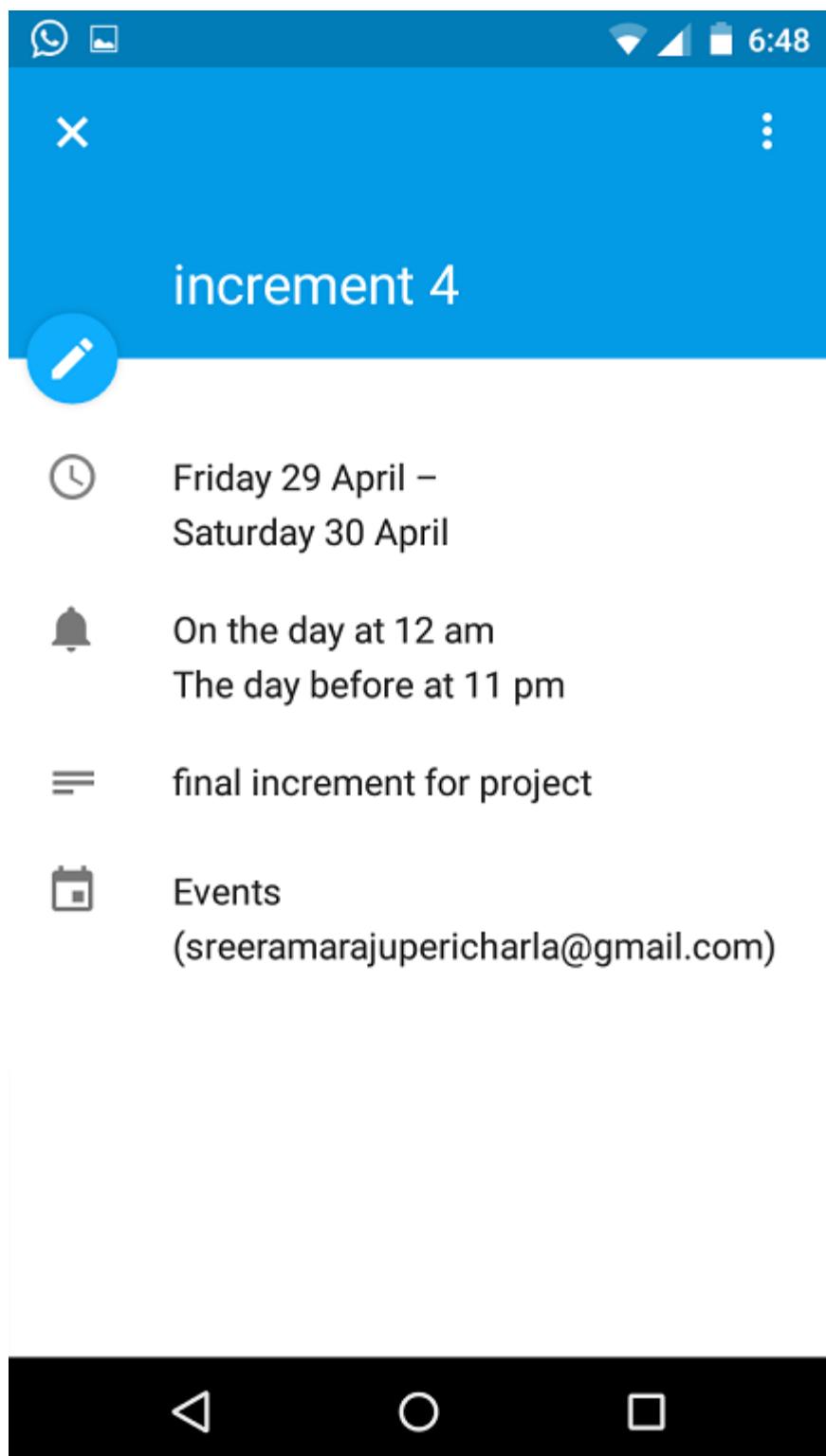
Teju : IOS - Success

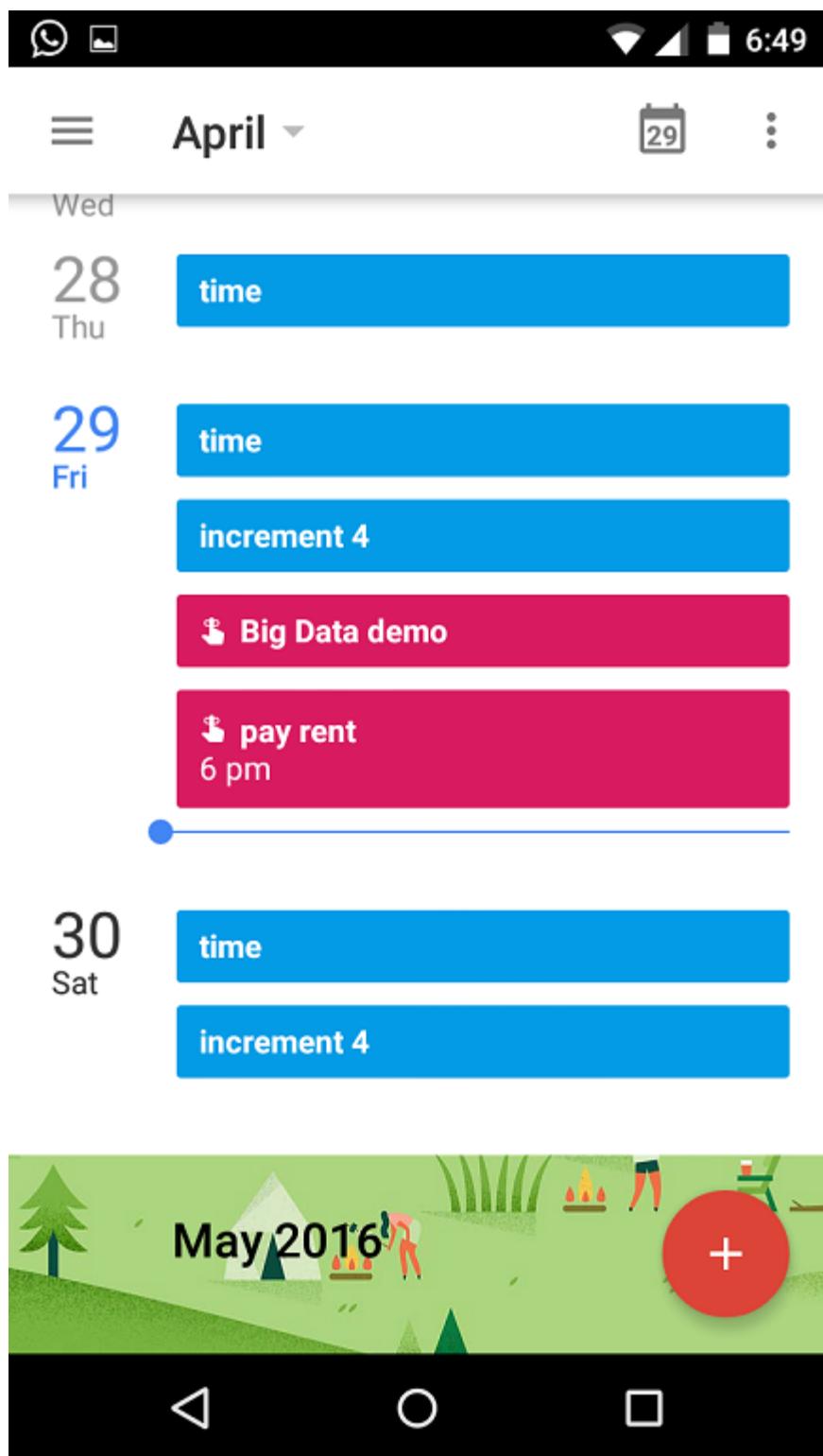
Teju : IOS - Success

Teju : IOS - Success

ram : Demo - for ase







iOS screenshots:

••••• Lycamobile 6:12 PM 100%

RooHub

Please Sign in

Username
Password

Login

New to RooHub?

[Register Here!!!](#)



 Back**Register**

Enter Username

Enter Password

Enter Email

Enter any security question?

Enter your answer

 Register

••••• Lycamobile

6:19 PM

100% 



RooHub

Logout

Hello, ram

Welcome to RooHub

Profile

Board Room

Task Tracker



Get Connected

-

Stay Connected



< Back

Welcome to Boardrooms

[ASE](#)[PB](#)[NA1](#)



< Back

Welcome to ASE Board room



post here

post

ram : fine and ready to access

Teju : Project completed 

Sri : Howdy

Sri : Hi everyone

ram : Hello

ramaraju : hello all

ramaraju : its done

ram : 



< Back

Task Tracking Organizer

[Create a Task](#)

List of Events



ram : increment 4 - final increment

ram : task 2 - hi

Teju : Task 1 - Nothing

Teju : IOS - Success

Teju : IOS - Success

Teju : IOS - Success

ram : Demo - for ase

Darling : Darling - "Love you Darling "



New Task

Logout

< Back

Task Name

Task Description

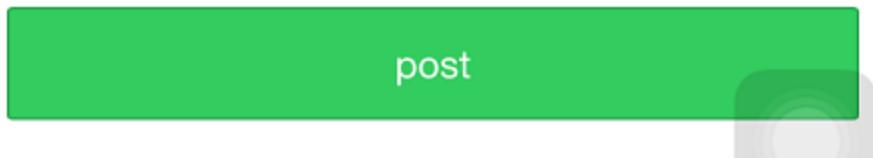
Start Date:**End Date:****Create New Task**



< Back

Welcome to PB Board room

post here

post

ram : fine and running successfully

Sri : Hello

Latha : Hi

Latha : Hi

ramaraju : posts are ready

ramaraju : hey

ramaraju : finally

ram : 



< Back

Welcome to NA1 Board room



post here

post

ramaraju : doing good

ram : finally

ram : hi santosh

nitin : hi guys

ram : hii

ram : hii

ram : we are ready for demo

ram : gud night



New Task

Logout

< Back

Task

Have to be done

Start Date:29-Apr-2016

End Date:03-May-2016

Create New Task

< >

Clear Done

31

February

2013

1

March

2014

2

April

2015

3

May

2016

4

June

2017

5

July

2018

6

August

2019

Screenshots for the Database:

The screenshot shows the mLab MongoDB Deployments page. It lists three single-node deployments intended for environments that do not require high availability. The columns include NAME, PLAN, RAM, SIZE, and FILE SIZE.

NAME	PLAN	RAM	SIZE	FILE SIZE
ds047752/ase_lab7	Sandbox	shared	8.73 KB	16.00 MB
ds019688/ase_ram	Sandbox	shared	8.52 KB	16.00 MB
ds015929/roohub	Sandbox	shared	59.56 KB	16.00 MB

The screenshot shows the mLab Database: roohub page. It provides instructions for connecting using the mongo shell and a standard MongoDB URI. Below these instructions, it shows the mongod version as 3.0.10. The page includes tabs for Collections, Users, Stats, Backups, and Tools, with the Collections tab currently selected. It also features buttons for Delete all collections and Add collection.

To connect using the mongo shell:
`% mongo ds015929.mlab.com:15929/roohub -u <dbuser> -p <dbpassword>`

To connect using a driver via the standard MongoDB URI ([what's this?](#)):
`mongodb://<dbuser>:<dbpassword>@ds015929.mlab.com:15929/roohub`

mongod version: 3.0.10

Collections

NAME DOCUMENTS CAPPED? SIZE

ase_posts	55	false	13.94 KB
na1_posts	14	false	9.52 KB
pb_posts	21	false	10.28 KB
tasks	19	false	12.06 KB
userdata	22	false	12.39 KB

System Collections

NAME	DOCUMENTS	SIZE
system.indexes	5	0.55 KB

Home : { db : "roohub" } Collection: ase_posts

{ user: "sreeram66", account: "Sree Rama Raju" }

Documents Indexes Stats Tools

Delete all documents in collection Add document

Start new search

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 10 of 55] next > last >

```
{
  "_id": {
    "$oid": "5704b54fe4b00372f451711c"
  },
  "aseposting": "have a nice day",
  "username": "sree"
}

{
  "_id": {
    "$oid": "5704b58ae4b000c454b2ff62"
  },
  "aseposting": "hello all",
  "username": "Teju"
}

{
  "_id": {
    "$oid": "5704b5bbe4b000c454b3001d"
  },
  "aseposting": "success",
  "username": "ram"
}

{
  "_id": {
    "$oid": "570562bbe4b0801e3057df68"
  }
}
```

WELCOME PLANS + FEATURES PRICING DOCS + SUPPORT ACCOUNT LOG OUT

{ user: "sreeram66", account: "Sree Rama Raju" }

Home : { db : "roohub" } Collection: na1_posts

Documents Indexes Stats Tools

Delete all documents in collection Add document

Start new search

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 10 of 14] next > last >

```
{
  "_id": {
    "$oid": "5705448de4b0801e3055f47c"
  },
  "na1posting": "hello na1 world",
  "username": "ramaraju"
}

{
  "_id": {
    "$oid": "570544a9e4b0d5ef28c3793d"
  },
  "na1posting": "na1 na1 na1",
  "username": "sree"
}

{
  "_id": {
    "$oid": "570562bbe4b0801e3057df68"
  }
}
```

mLab: MongoDB-as-a-Service

ObjectLabs Corporation [US] https://mlab.com/databases/roohub/collections/pb_posts

WELCOME PLANS + FEATURES PRICING DOCS + SUPPORT ACCOUNT LOG OUT

{ user: "sreeram66", account: "Sree Rama Raju" }

Home : { db: "roohub" } Collection: pb_posts

Documents Indexes Stats Tools

Documents

--- Start new search ---

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 10 of 21] next > last >>

```
{
  "_id": {
    "$oid": "57054225e4b0d5ef28c357cc"
  },
  "pbposting": "hello pb world",
  "username": "ramaraju"
},
{
  "_id": {
    "$oid": "570581f8e4b0d5ef28c7e0ff"
  },
  "pbposting": "hi hello",
  "username": "shan"
},
{
  "_id": {
    "$oid": "5705a1b8e4b0d5ef28ca1feb"
  }
}
```

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

mLab: MongoDB-as-a-Service

ObjectLabs Corporation [US] https://mlab.com/databases/roohub/collections/tasks

WELCOME PLANS + FEATURES PRICING DOCS + SUPPORT ACCOUNT LOG OUT

{ user: "sreeram66", account: "Sree Rama Raju" }

Home : { db: "roohub" } Collection: tasks

Documents Indexes Stats Tools

Documents

--- Start new search ---

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 10 of 19] next > last >>

```
{
  "_id": {
    "$oid": "57057d39e4b0d5ef28c79182"
  },
  "eventName": "ram",
  "eventDescription": "ram ram",
  "startDate": "2016-04-06T05:00:00Z"
},
{
  "_id": {
    "$oid": "57058080e4b0d5ef28c7c96b"
  },
  "username": "ramaraju",
  "eventName": "hello",
  "eventDescription": "world"
},
{
  "_id": {
    "$oid": "570581c4e4b0d5ef28c7dd59"
  }
}
```

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

The screenshot shows the mLab MongoDB-as-a-Service interface. At the top, there's a header with the mLab logo, navigation links for WELCOME, PLANS + FEATURES, PRICING, DOCS + SUPPORT, ACCOUNT, and LOG OUT. A user account is logged in: { user: "sreeram66", account: "Sree Rama Raju" }. Below the header, the URL is https://mlab.com/databases/roohub/collections/userdata. The main content area has a dark background. On the left, a sidebar titled 'Documents' is selected, showing tabs for Documents, Indexes, Stats, and Tools. It includes a search bar ('--- Start new search ---'), a delete button ('Delete all documents in collection'), and an add document button ('Add document'). The main area is titled 'All Documents' and displays three JSON documents from the 'userdata' collection:

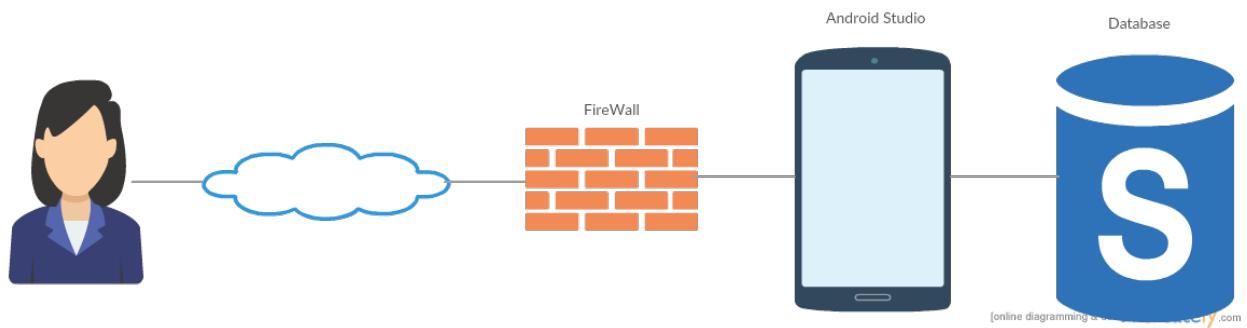
```
{ "_id": { "$oid": "56e84d12e4b0c00eef55e634" }, "username": "rama" }  
{ "_id": { "$oid": "56e89545e4b01754738ded33" }, "username": "sree", "password": "sree", "email": "ram@gmail.com" }  
{ "_id": { "$oid": "56e8f3fbe4b03af478a46e6f" }, "username": "sree", "password": "sree", "email": "ram@gmail.com" }
```

Each document has a delete icon (X) and an edit icon (pencil). To the right of the documents, there's a sidebar titled 'Documents (aka Objects)' with instructions for using the 'Documents' tab.

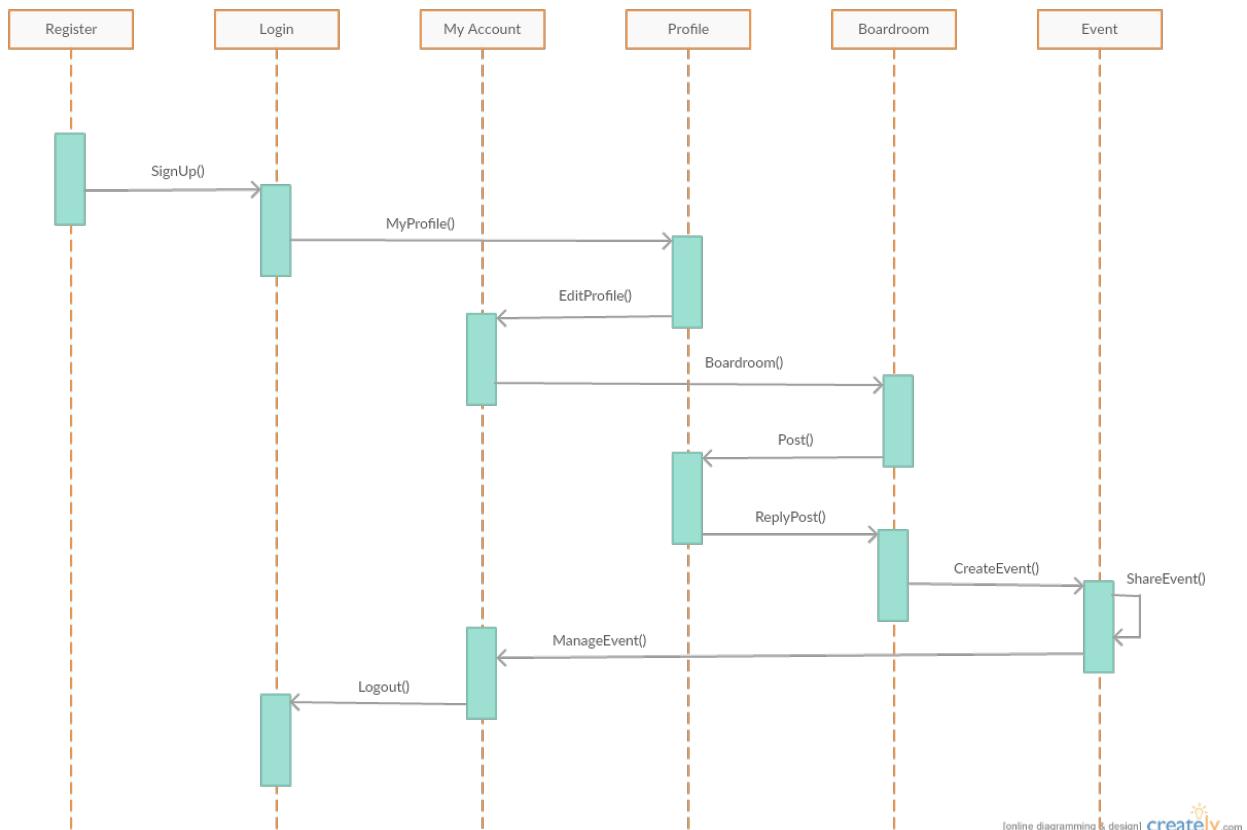
From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

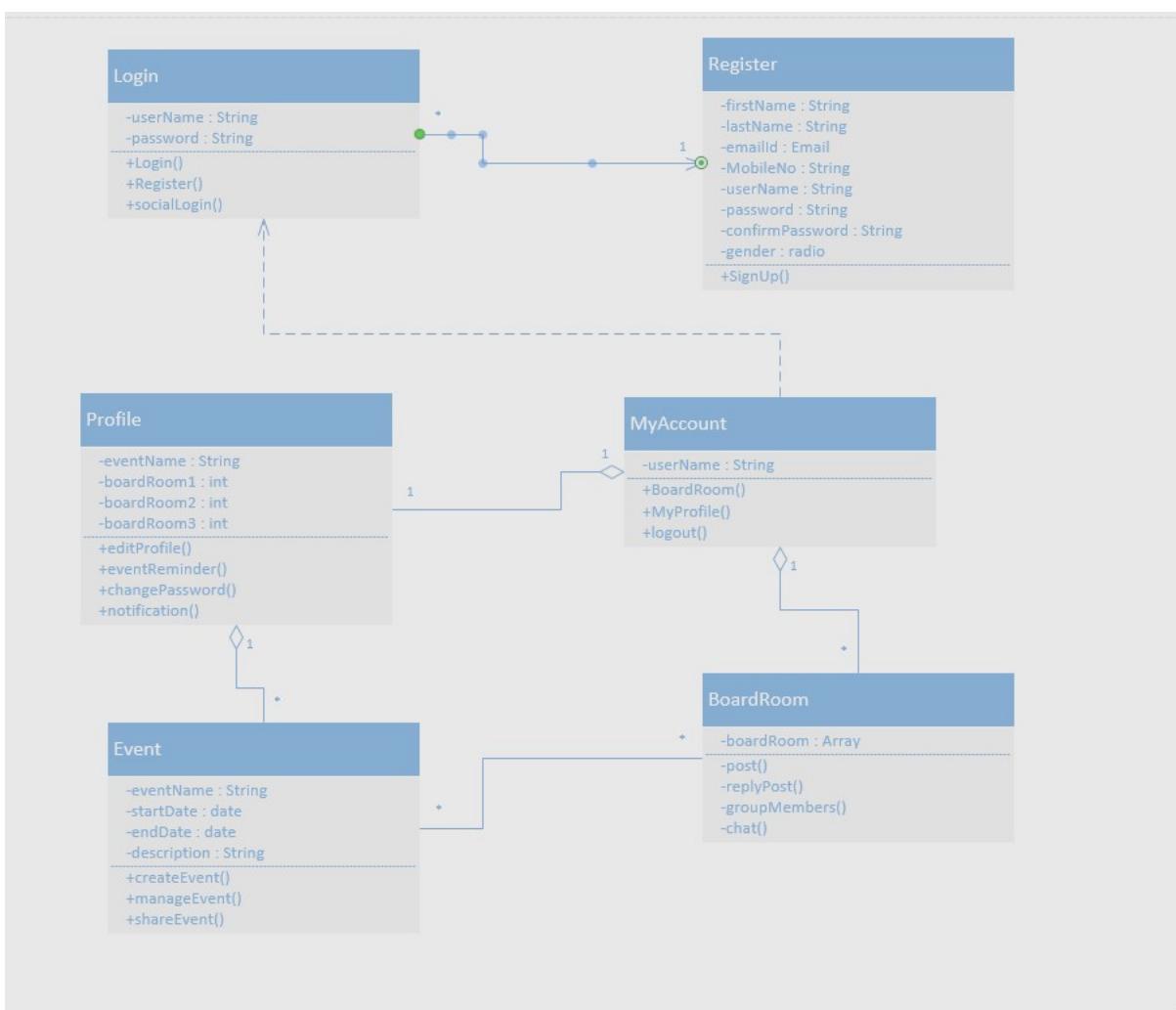
Architecture Diagram:



Sequence Diagram:



Class Diagram:

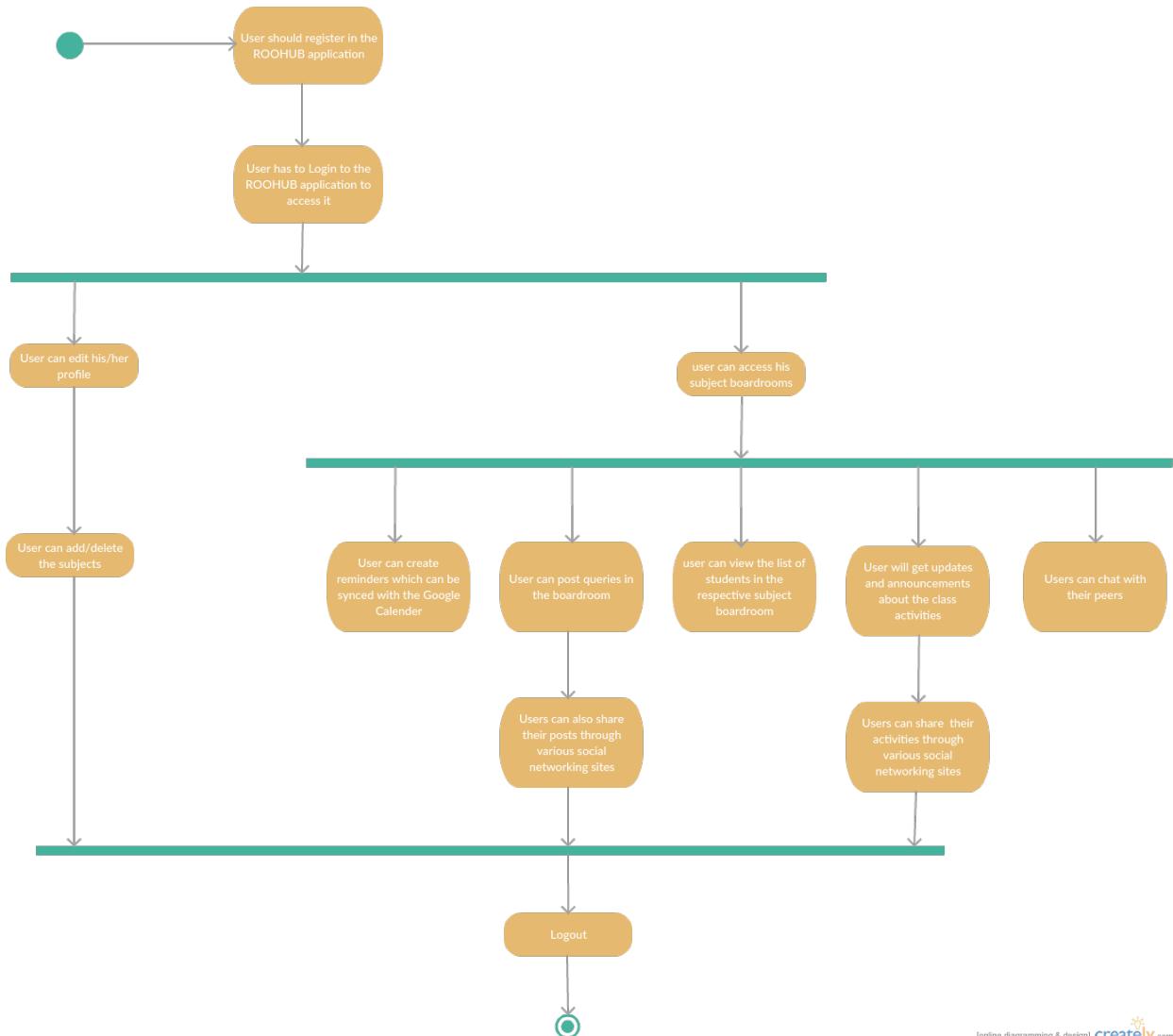


Use Case Diagram:



[online diagramming & design]  [creately.com](#)

Activity Diagram:



Implementation:

We have implemented this on Ionic framework.

Server Maintenance:

Database: MongoDB.

Deployment:

We have deployed it on both mobile and also on web and the captured screenshots are explained above.

GitHub link:

<https://github.com/sreeram66/RooHub-Team8/tree/master/Documentation>

Project Management:

Completed work:

We have changed the order of the posts in the boardrooms in the subjects from the third increment. The posts are now visible directly when we enter the discussion room that is board room.

Time Taken:

100 hours.

Contribution:

We have contributed equally to the project.

Work to be completed:

We did almost everything that we have planned to do.

Time to be taken:

NA.

Bibliography:

<https://forum.ionicframework.com/t/change-order-of-items-in-nav-bar/6063/last>

<https://thinkster.io/ionic-framework-tutorial>

Presentation Sides URL:

https://github.com/SCE-UMKC/ASESP16_RooHub_Team8/tree/master/Presentation

GitHub URL:

https://github.com/SCE-UMKC/ASESP16_RooHub_Team8

YouTube Project Video URL:

<https://www.youtube.com/watch?v=325t8eB7fPg>