

Project increment – 3

RooHub Team 8:

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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.

Features:

The features include discussion board and also task tracker.

Detail design of Features:

Wireframes:

The application screenshots are as follows:



Register

Enter Username

Enter Passwrod

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



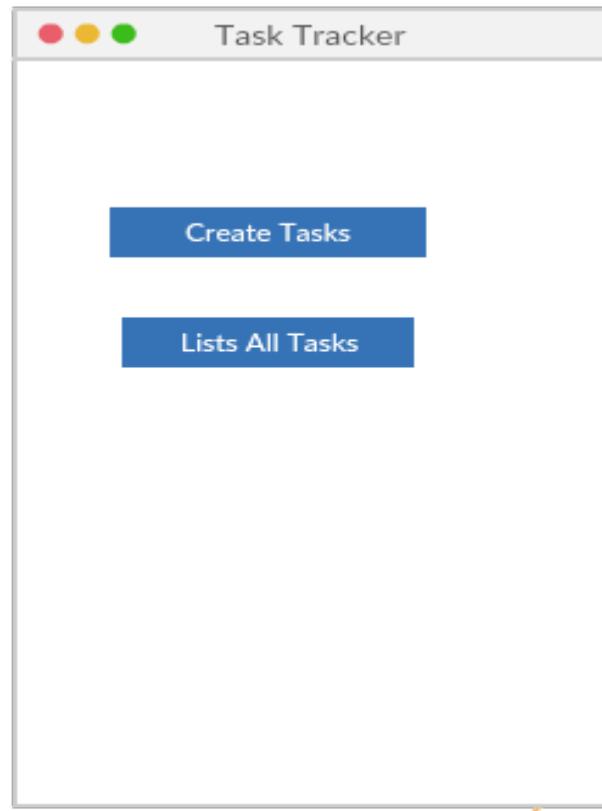
Board Rooms

Welcome to board rooms

Subject 1

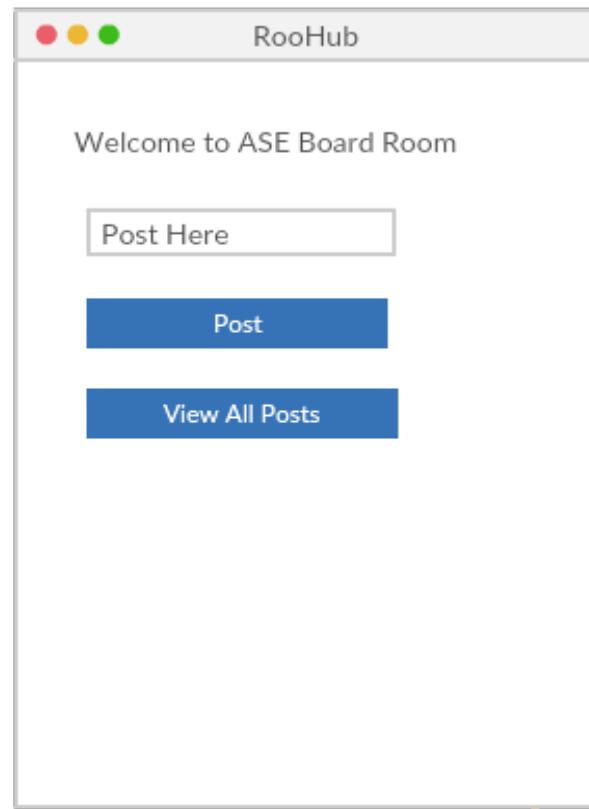
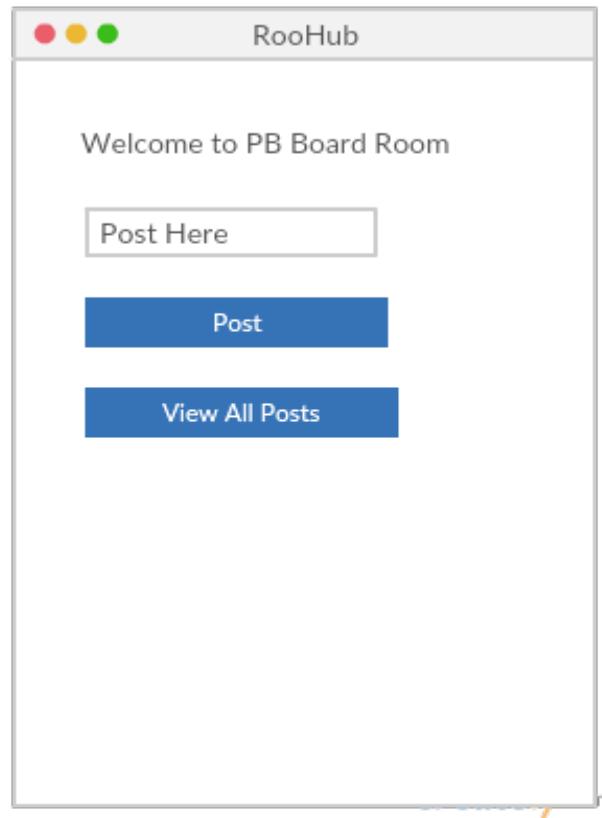
Subject 2

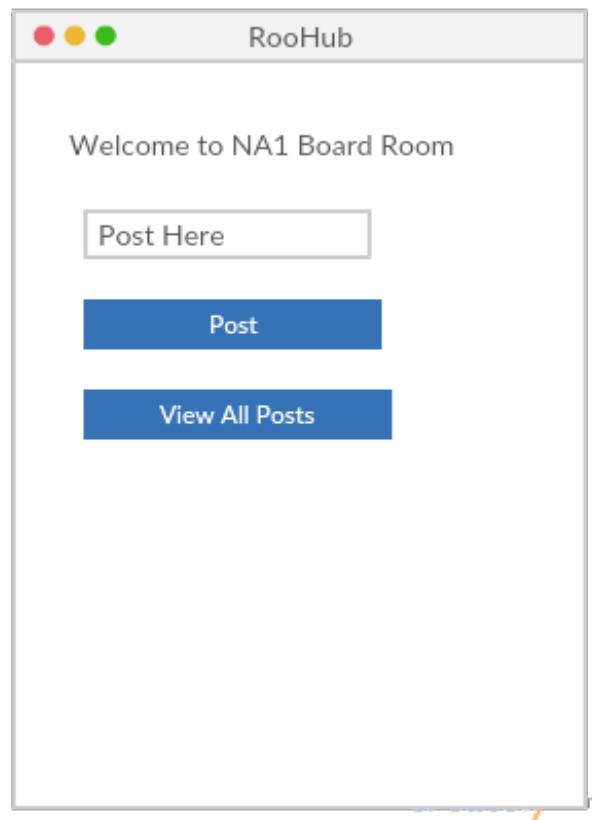
Subject 3



A screenshot of a Mac OS X-style application window titled "New Task". The window has a light gray header bar with three colored window control buttons (red, yellow, green) on the left. The main content area contains several input fields and controls:

- A text input field labeled "Task Name".
- A text input field labeled "Task Description".
- A date input field showing "05/06/2015" with a small calendar icon to its right.
- A date input field showing "05/06/2015" with a small calendar icon to its right.
- A blue rectangular button at the bottom labeled "Create New Task".





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!!!](#)





Register

Logout

Enter Username

Enter Password

Enter Email

Enter any security question?

Enter your answer

Register





Register

[Logout](#)

sreeram

.....

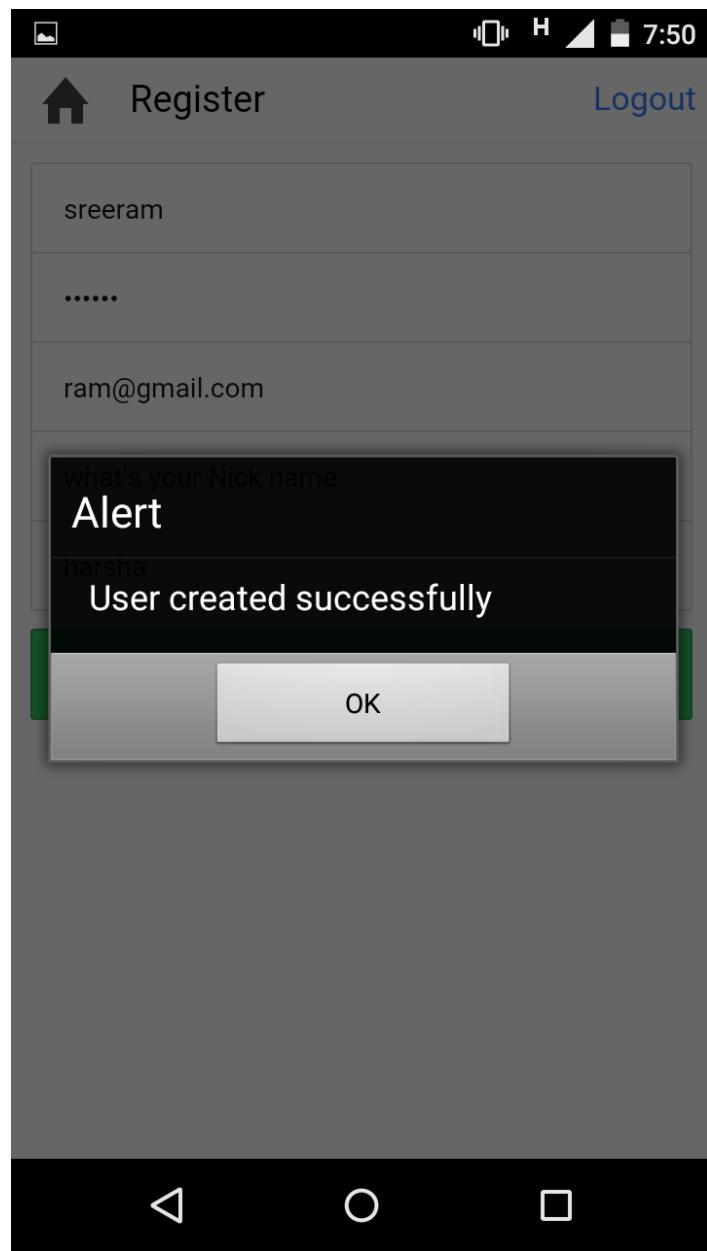
ram@gmail.com

what's your Nick name

harsha

[Register](#)



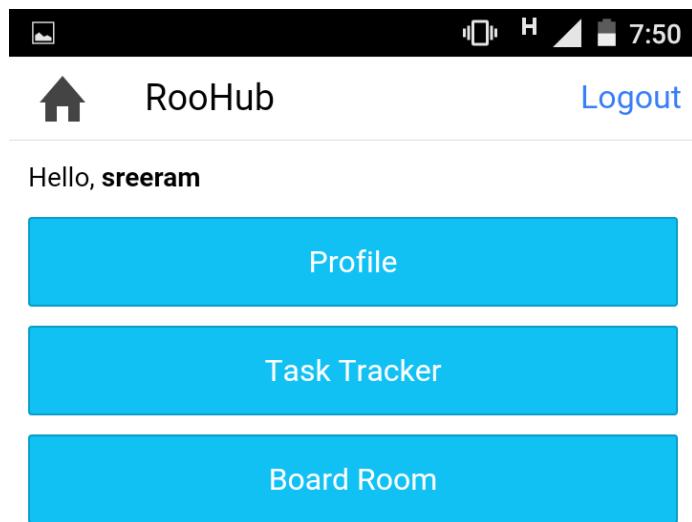


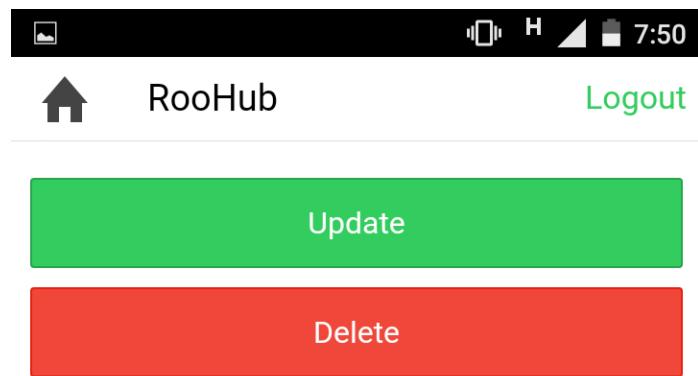


New to RooHub? [Register Here!!!](#)

Invalid Credentials! Please try again....









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

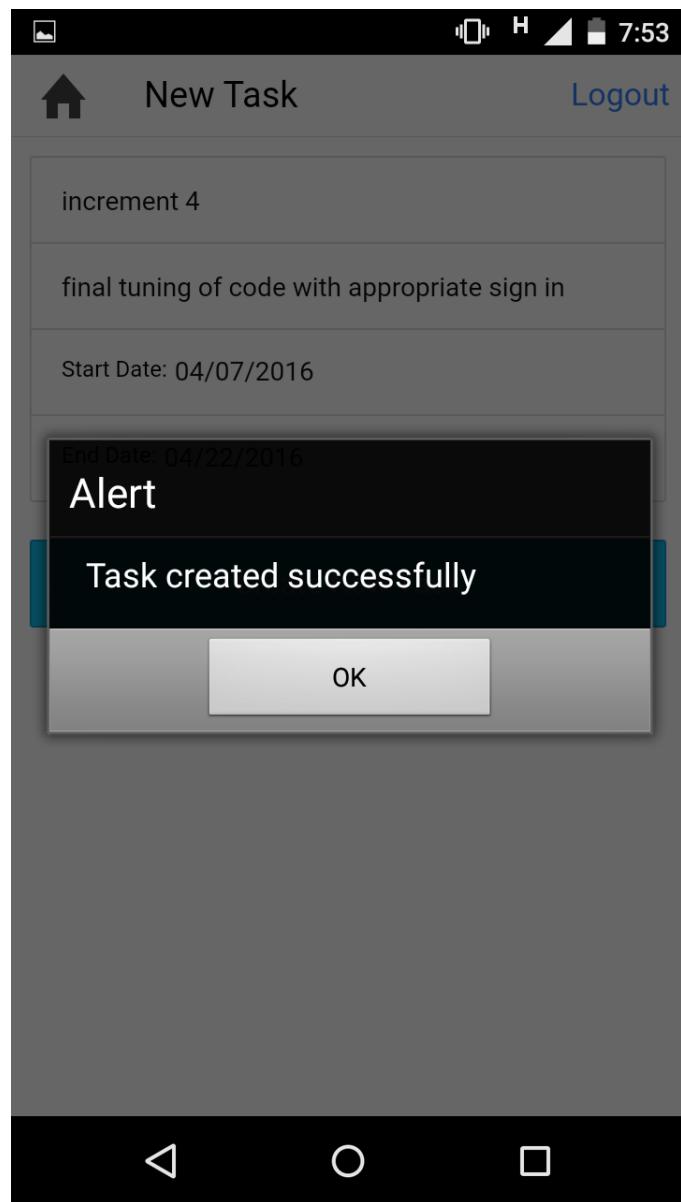
final tuning of code with appropriate sign in

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
shankar: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
shankar: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 PB Board room

post here

post

[View All posts](#)

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





RooHub

[Logout](#)

Welcome to NA1 Board room

post here

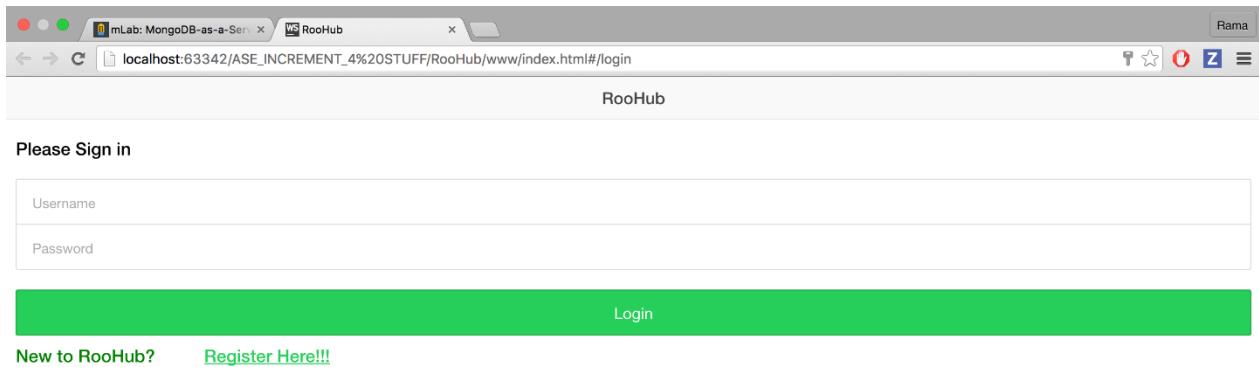
post

[View All posts](#)

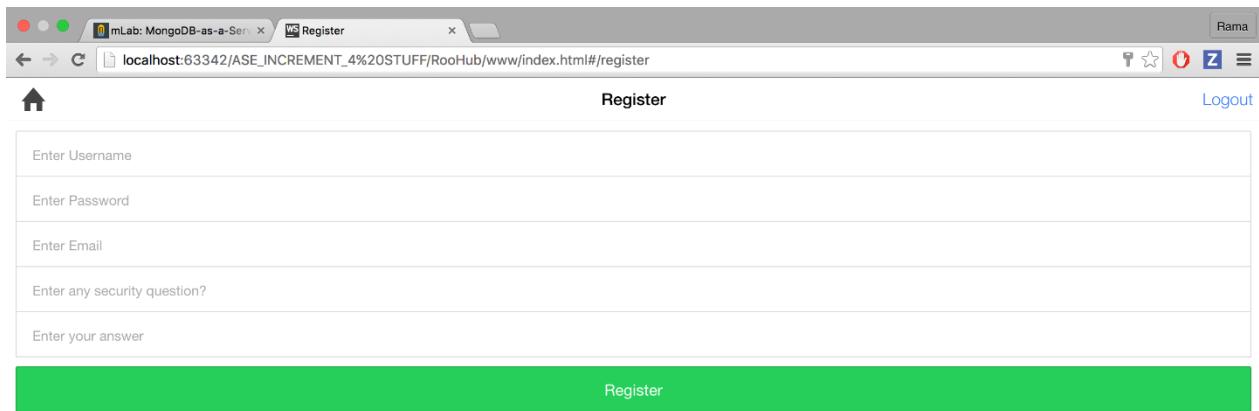
ramaraju:hello na1 world
sree:na1 na1 na1
ram:hello all
shan:hello hello hi hi
praneeth:quiz marks updated
shanmukh:happy spring break



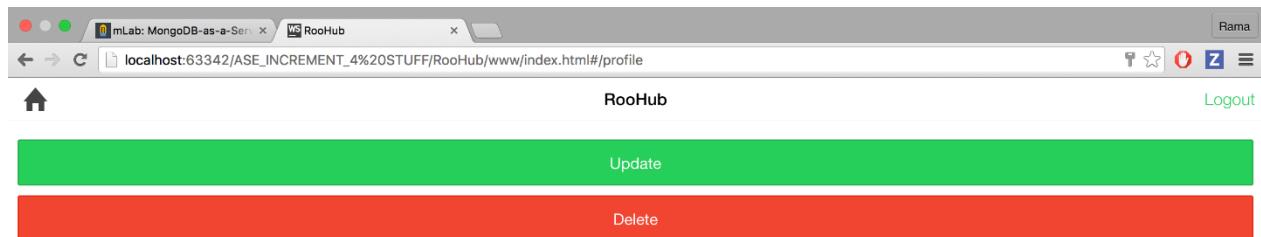
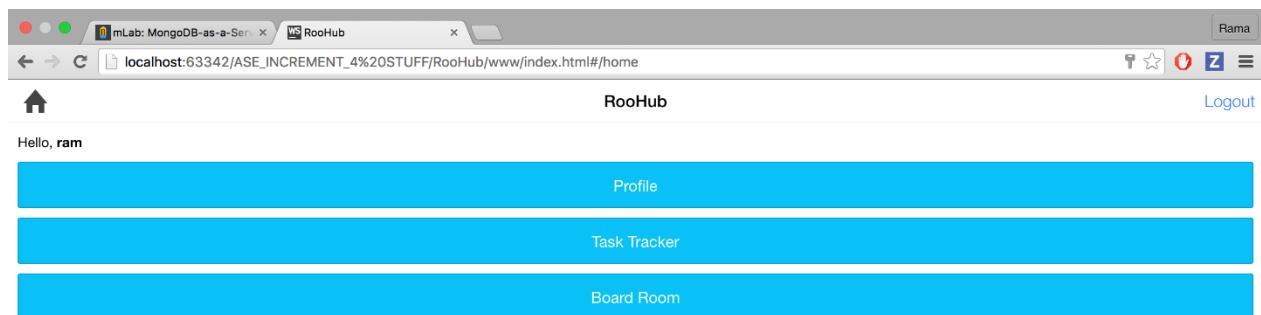
Web Deployment screenshots:



A screenshot of a web browser window showing the login page for 'RooHub'. The title bar says 'mLab: MongoDB-as-a-Service' and the tab is 'RooHub'. The URL in the address bar is 'localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/login'. The page has a light gray header with the 'RooHub' logo. Below it is a form with two input fields: 'Username' and 'Password'. A large green button at the bottom right of the form area contains the word 'Login'. At the bottom left, there is a link 'New to RooHub?' and a link 'Register Here!!!'.



A screenshot of a web browser window showing the registration page for 'RooHub'. The title bar says 'mLab: MongoDB-as-a-Service' and the tab is 'Register'. The URL in the address bar is 'localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/register'. The page has a light gray header with the 'RooHub' logo. On the left, there is a navigation icon (a house). In the center, the word 'Register' is displayed above a series of five input fields. From top to bottom, the fields are labeled: 'Enter Username', 'Enter Password', 'Enter Email', 'Enter any security question?', and 'Enter your answer'. A large green button at the bottom right of the form area contains the word 'Register'. At the top right, there is a 'Logout' link.



mLab: MongoDB-as-a-Ser... × RooHub × Rama

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

Logout

[Home](#)

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-Ser... × RooHub × Rama

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

Logout

[Home](#)

TaskTracker

Create Tasks

list All Tasks

mLab: MongoDB-as-a-Service Create Event

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

Rama

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

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

Rama

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

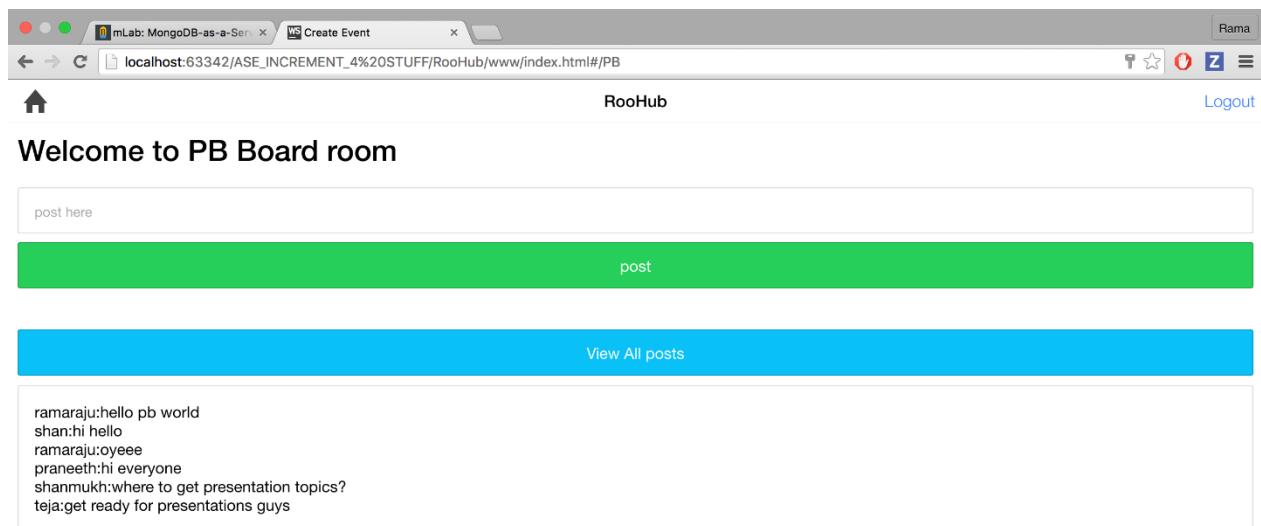
This screenshot shows the 'Boardroom' section of the RooHub application. The browser title bar reads 'mLab: MongoDB-as-a-Ser... Create Event' and the address bar shows 'localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/boardroom'. The page header includes a home icon, the text 'RooHub', and a 'Logout' link. The main content area features a heading 'Welcome to Boardrooms' followed by three horizontal bars. The top bar is blue and contains the text 'ASE'. The middle bar is blue and contains the text 'PB'. The bottom bar is blue and contains the text 'NA1'.

This screenshot shows the 'ASE' board room section of the RooHub application. The browser title bar reads 'mLab: MongoDB-as-a-Ser... Create Event' and the address bar shows 'localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/ASE'. The page header includes a home icon, the text 'RooHub', and a 'Logout' link. The main content area features a heading 'Welcome to ASE Board room' followed by a text input field containing 'post here', a green button labeled 'post', and a blue button labeled 'View All posts'.

A screenshot of a web browser window titled "ASE Board room". The address bar shows "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. A top navigation bar has tabs for "mLab: MongoDB-as-a-Serv", "Create Event", and "Rama". Below the header is 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:

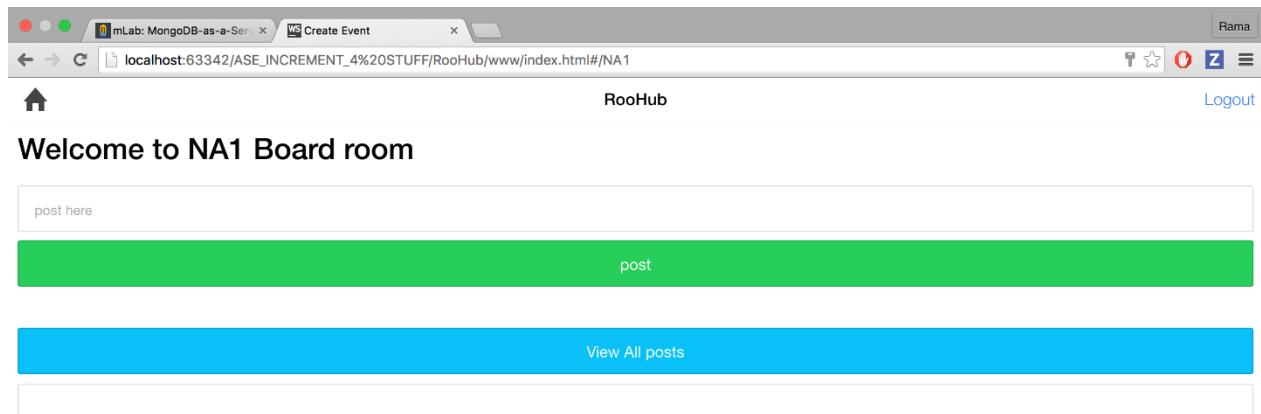
```
sree:have a nice day  
Teju:hello all  
ram:success  
ram:increment 3 is done  
shan:hello hi  
shan:hey  
shan:good work  
praneeth:assignment is approaching  
shannmukh:increment 4 is ready  
teja:can anyone update the mid term syllabus  
sreeram:All the best for exams
```

A screenshot of a web browser window titled "PB Board room". The address bar shows "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. A top navigation bar has tabs for "mLab: MongoDB-as-a-Serv", "Create Event", and "Rama". Below the header is 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, showing only a blank white space.



A screenshot of a web browser window titled "RooHub". The URL is "localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/PB". The page displays a "Welcome to PB Board room" header. Below it is a text input field with placeholder "post here" and a green "post" button. A blue "View All posts" button is also present. A scrollable area contains the following messages:

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



A screenshot of a web browser window titled "RooHub". The URL is "localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/NA1". The page displays a "Welcome to NA1 Board room" header. Below it is a text input field with placeholder "post here" and a green "post" button. A blue "View All posts" button is also present. A scrollable area is currently empty.

The screenshot shows a web browser window titled "mLab: MongoDB-as-a-Service" with a sub-tab "Create Event". The URL is "localhost:63342/ASE_INCREMENT_4%20STUFF/RooHub/www/index.html#/NA1". The page is titled "RooHub" and has a "Logout" link in the top right. A "Welcome to NA1 Board room" message is displayed. Below it is a "post here" input field and a green "post" button. A blue "View All posts" button is also present. A list of posts is shown in a box, with the first few entries being:

```

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 interface for the "ase_posts" collection. The top navigation bar includes "WELCOME", "PLANS + FEATURES", "PRICING", "DOCS + SUPPORT", "ACCOUNT", and "LOG OUT". The user "sreeeram66" and account "Sree Rama Raju" are logged in. The main area shows the "Documents" tab selected, with tabs for "Indexes", "Stats", and "Tools". A "Delete all documents in collection" button and an "Add document" button are visible. The "All Documents" section displays 11 documents in list view, each with a delete and edit icon. 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 that it allows browsing and searching for objects in the collection using standard MongoDB query constructs.

mLab: MongoDB-as-a-Service

ObjectLabs Corporation [US] https://mlab.com/databases/roohub/collections/na1_posts

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

Documents

--- Start new search ---

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 6 of 6]

```
{ "_id": { "$oid": "5705448de4b0801e3055f47c" }, "na1posting": "hello na1 world", "username": "ramaraju" } { "_id": { "$oid": "570544a9e4b0d5ef28c3793d" }, "na1posting": "na1 na1 na1", "username": "sree" } { "_id": { "$oid": "570562bbe4b0801e3057df68" }, "na1posting": "hello all", "username": "ram" }
```

X Edit

X Edit

X Edit

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/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 - 6 of 6]

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

X Edit

X Edit

X Edit

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

Rama

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

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": "57057d39e4b0d5ef28c79182" }, "eventName": "ram", "eventDescription": "ram ram", "startDate": "2016-04-06T05:00:00.000Z" }
```

```
{ "_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

Rama

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

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": "56e84d12e4b0c00eeff55e634" }, "username": "rama" }
```

```
{ "_id": { "$oid": "56e89545e4b01754738ded33" }, "username": "sree", "password": "sree", "email": "ram@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).

mLab: MongoDB-as-a-Service

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

Rama

mLab

WELCOME PLANS + FEATURES PRICING DOCS + SUPPORT ACCOUNT LOG OUT

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

Home Database: roohub

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 Users Stats Backups Tools

_collections

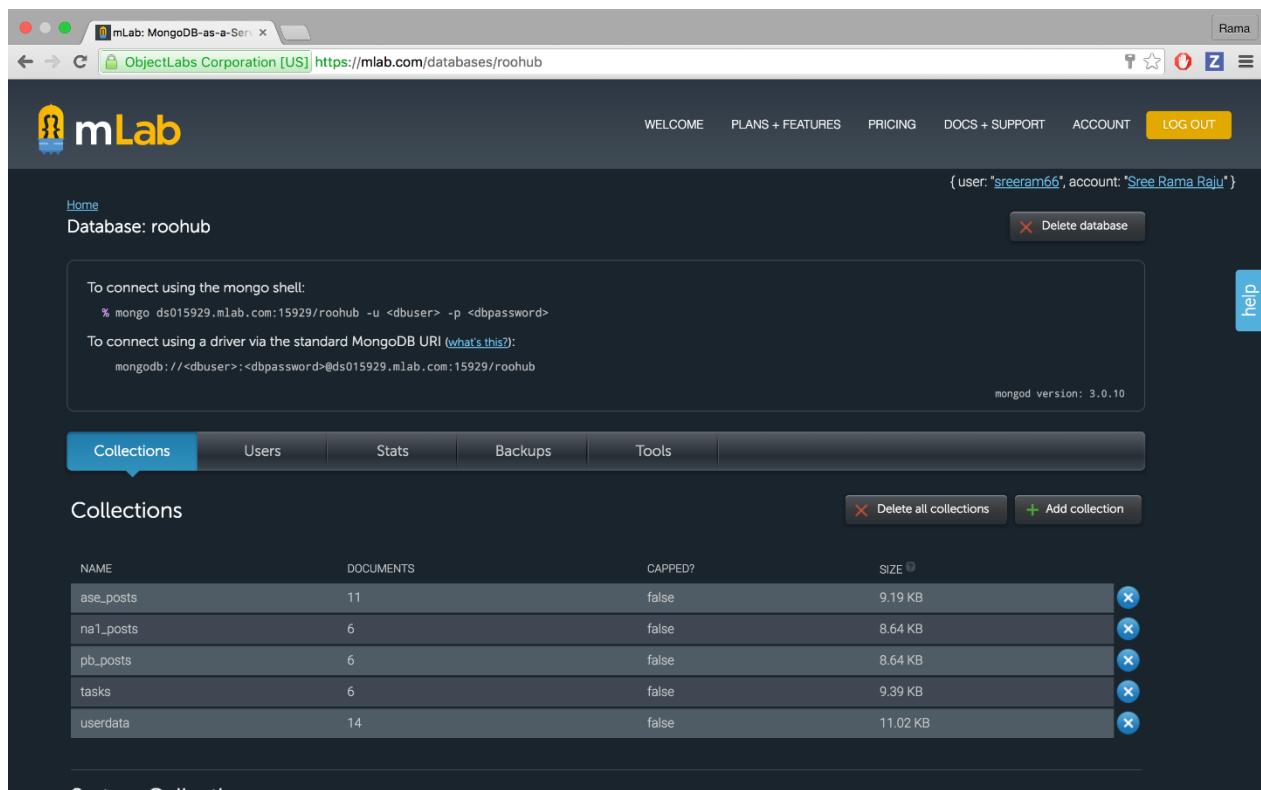
Collections

Delete all collections Add collection

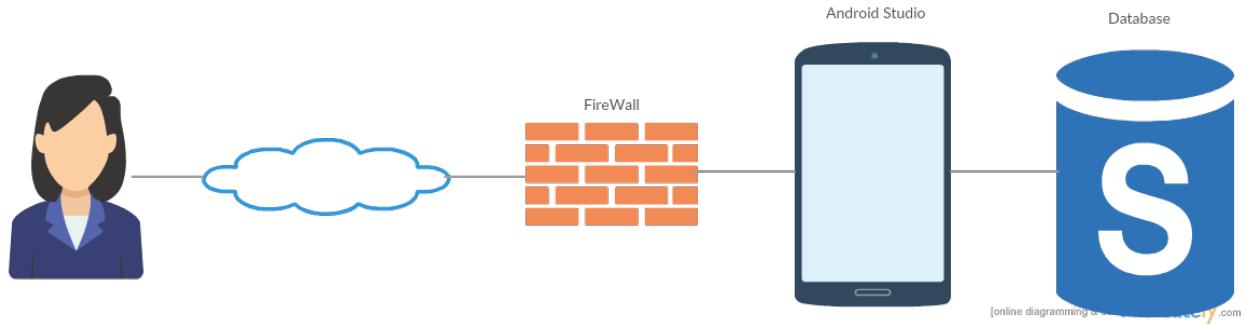
NAME	DOCUMENTS	CAPPED?	SIZE
ase_posts	11	false	9.19 KB
na1_posts	6	false	8.64 KB
pb_posts	6	false	8.64 KB
tasks	6	false	9.39 KB
userdata	14	false	11.02 KB

Custom Collections

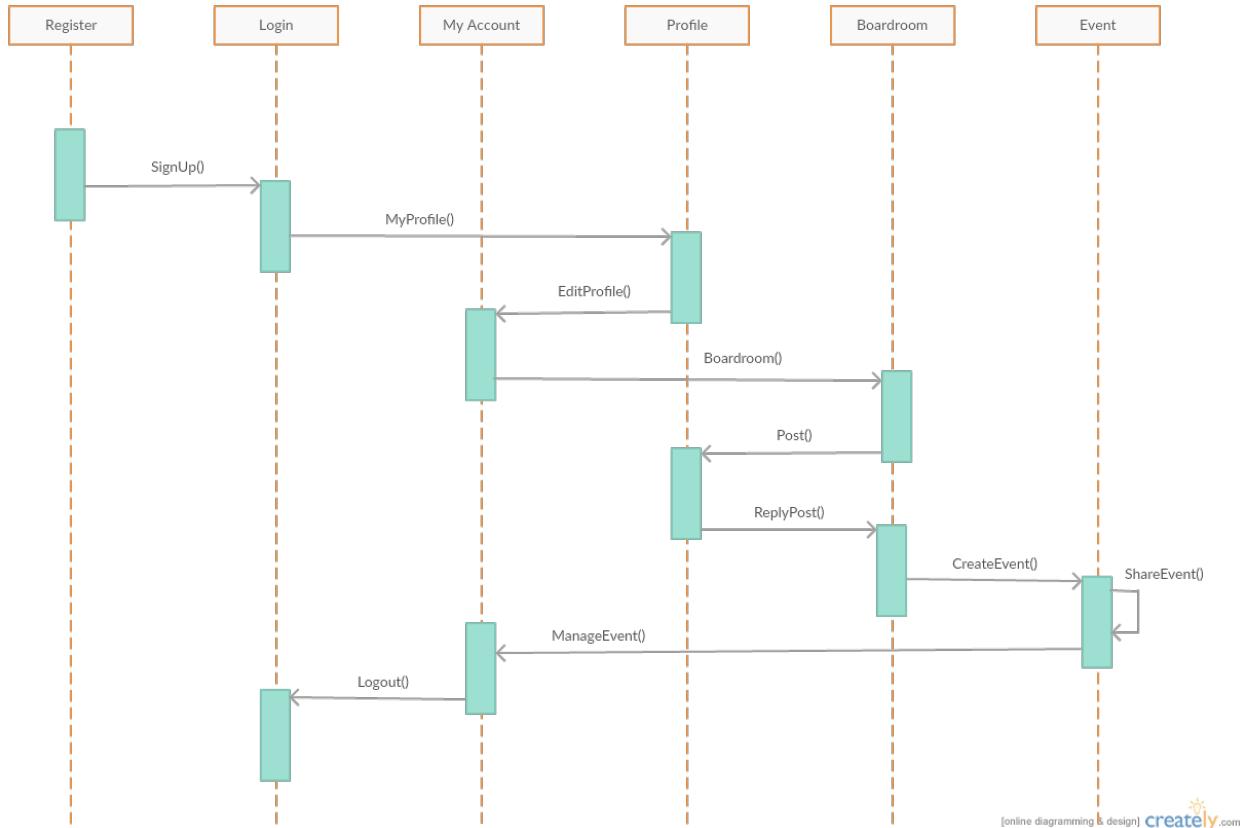
help



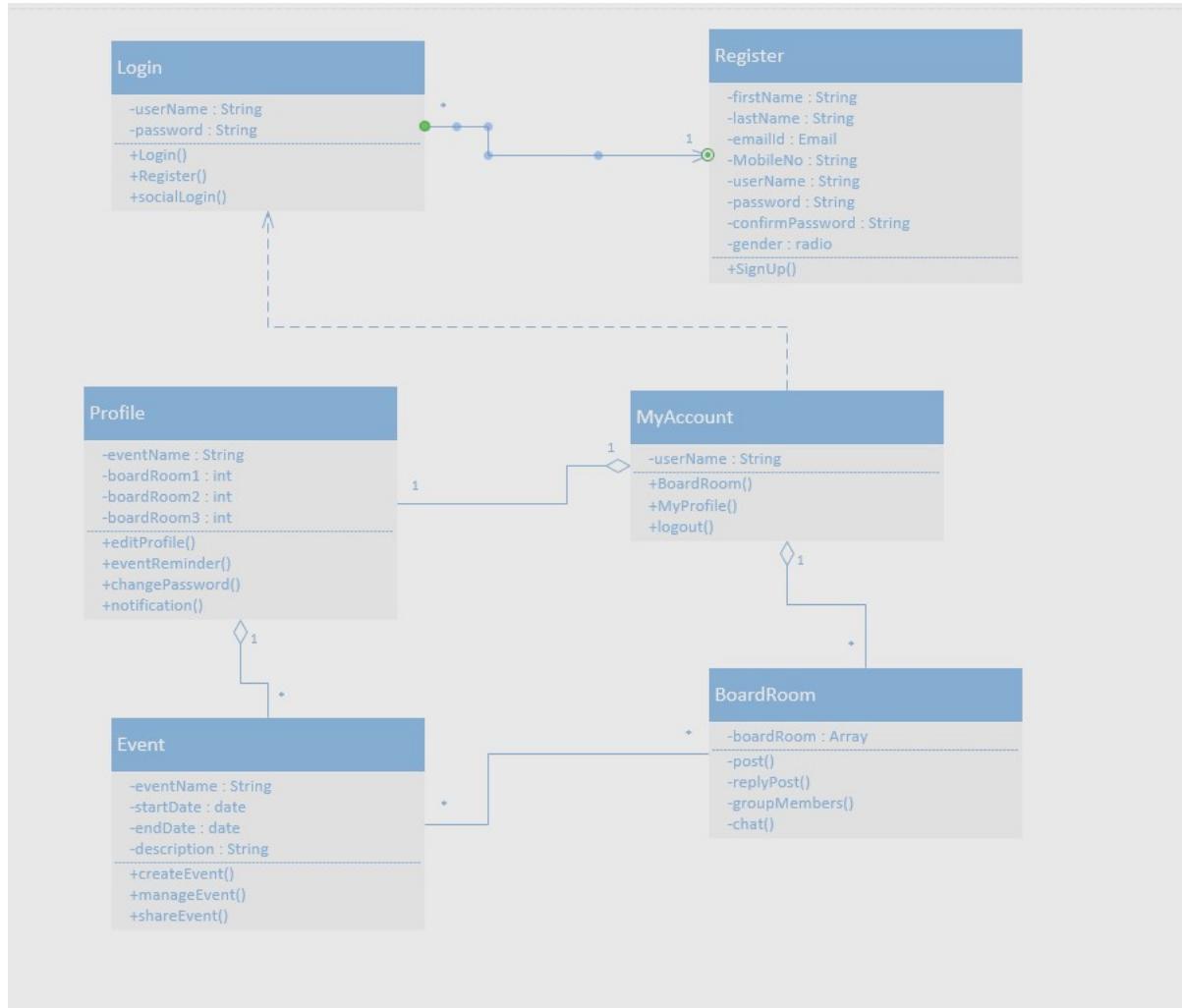
Architecture Diagram:



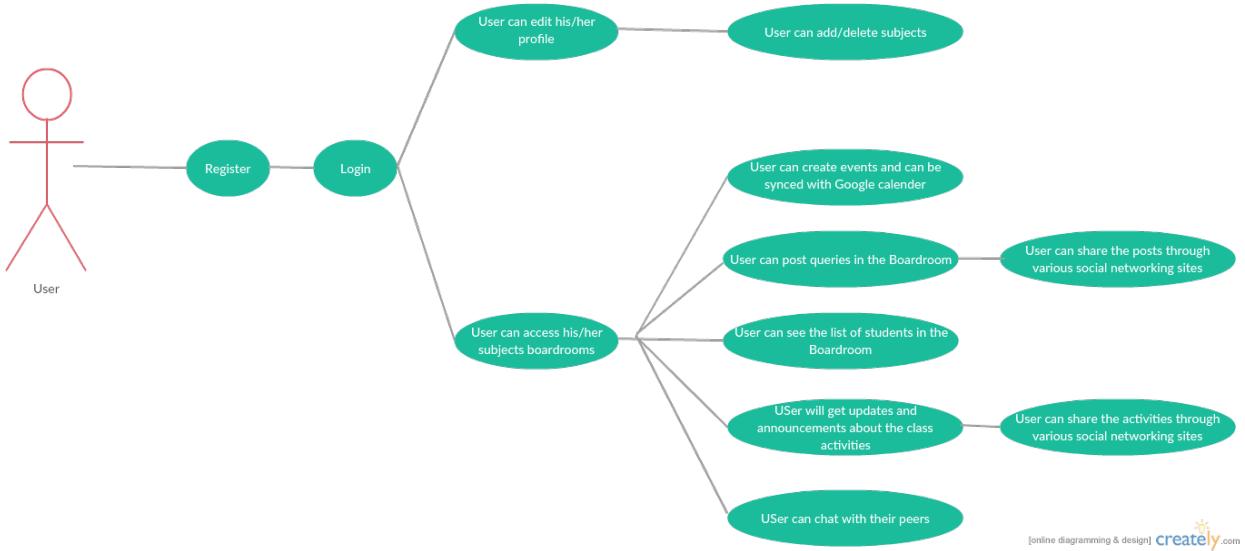
Sequence Diagram:



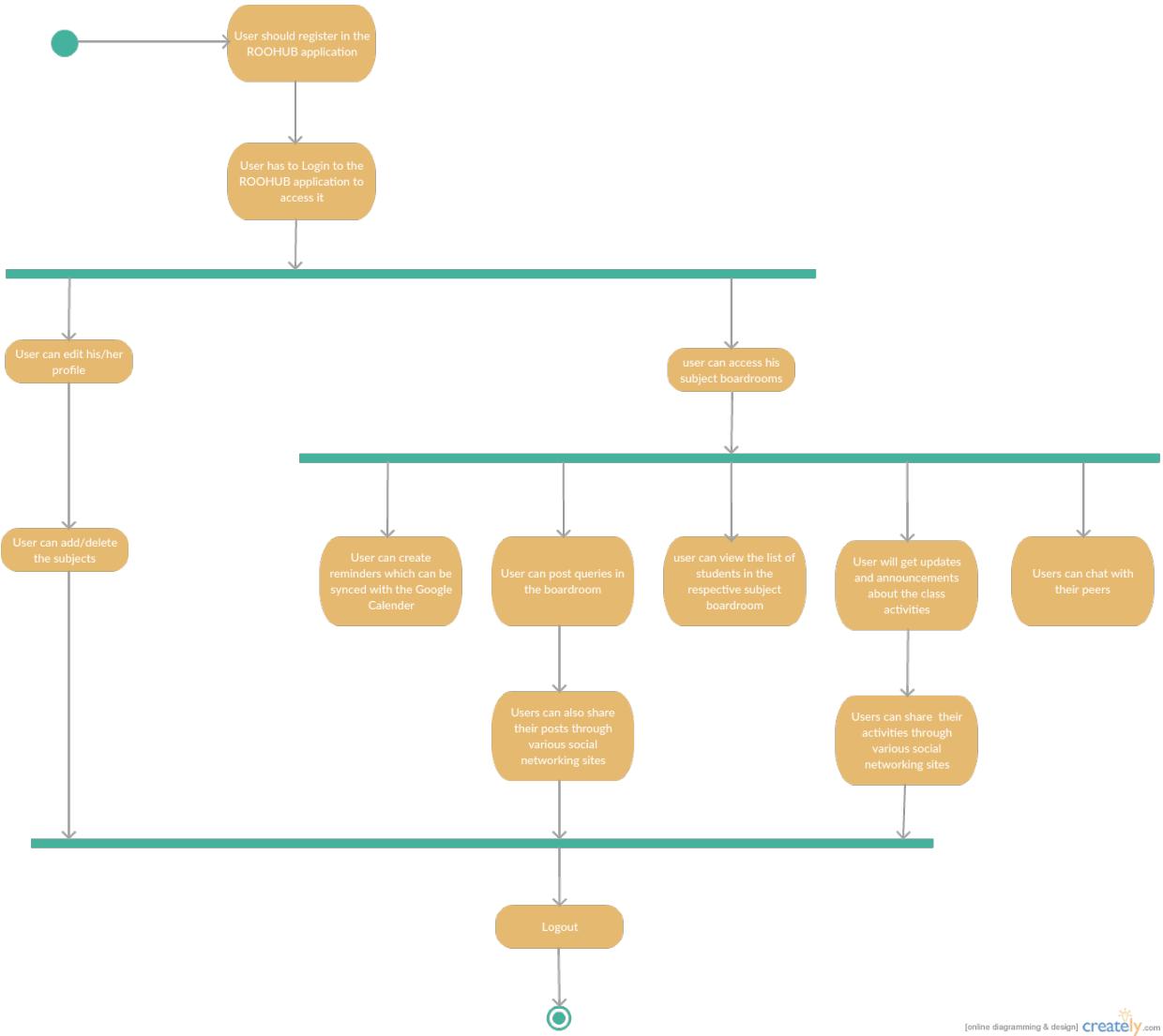
Class Diagram:



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/>