Project Increment – 4

RooHub Team 8:

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Introduction:

Our project RooHub is about creating both Android and IOS applications 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 minimize 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:

Login

Username

Passwrod

Login

Forgot Password?

New to RooHub? Register Here

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

Task Tracker

Create Tasks

Lists All Tasks

New Task

Task Name

Task Description

05/06/2015

05/06/2015

Create New Task

RooHub

Welcome to PB Board Room

Post Here

Post

View All Posts

RooHub

Welcome to ASE Board Room

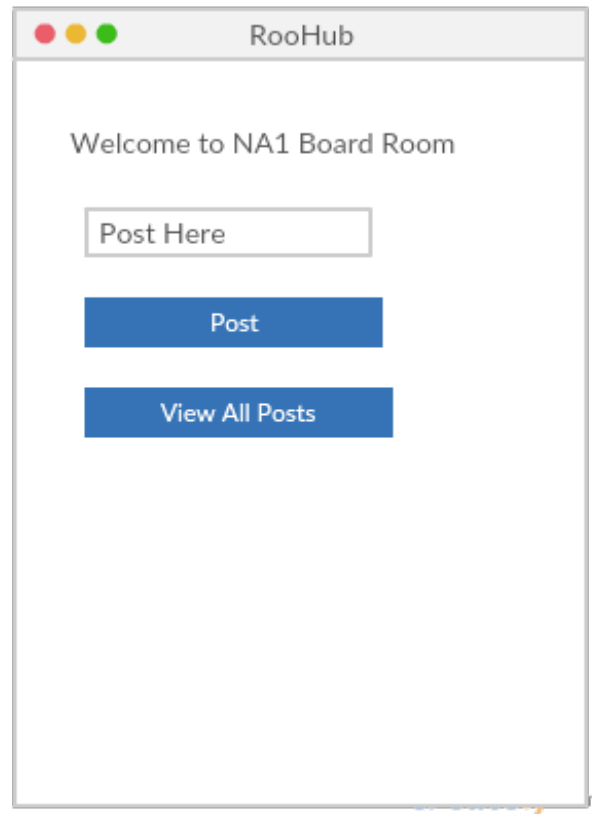Post Here

Post

View All Posts

RooHub

Welcome to NA1 Board Room

Post Here

Post

View All Posts

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 tracker.

Android Screenshots:

Register

Enter Username

Enter Password

Enter Email

Enter any security question?

Enter your answer

Register

Register

sreeram

······

ram@gmail.com

place of birth?

amalapuram

Register

Register

sreeram

••••••

ram@gmail.com

place of birth?

amalapuram

Alert

User created successfully

OK

RooHub

Please Sign in

ram

••••

Login

New to RooHub?   **Register Here!!!**

Invalid Creditials! Please try again....

Hello, **ram**

Welcome to RooHub

Profile

Board Room

Task Tracker

Get Connected

-

Stay Connected

RooHub

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   ▼
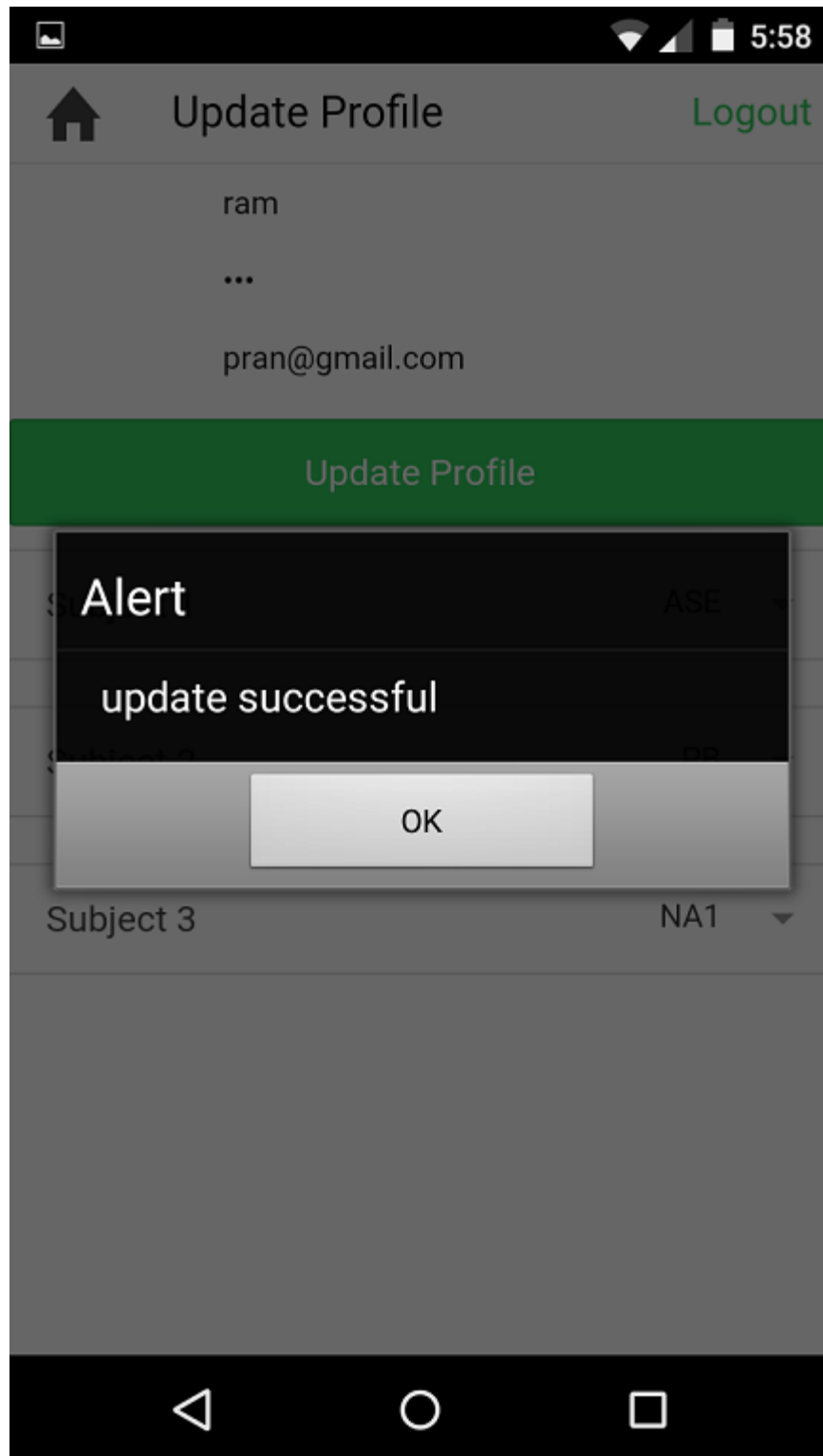
◁   ◯   ▢

🏠 Update Profile Logout

ram

•••

pran@gmail.com

Update Profile

Alert

update successful

OK

Subject 3 NA1 ▾

◁ ◯ ▢

Hello, **ram**

Welcome to RooHub

Profile

Board Room

Task Tracker

Get Connected

-

Stay Connected

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**

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

Hello, **ram**

Welcome to RooHub

Profile

Board Room

Task Tracker

Get Connected

-

Stay Connected

🏠 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

Task Name

Task Description

Start Date:

End Date:

Create New Task

◁ ○ ☐

increment 4

final increment
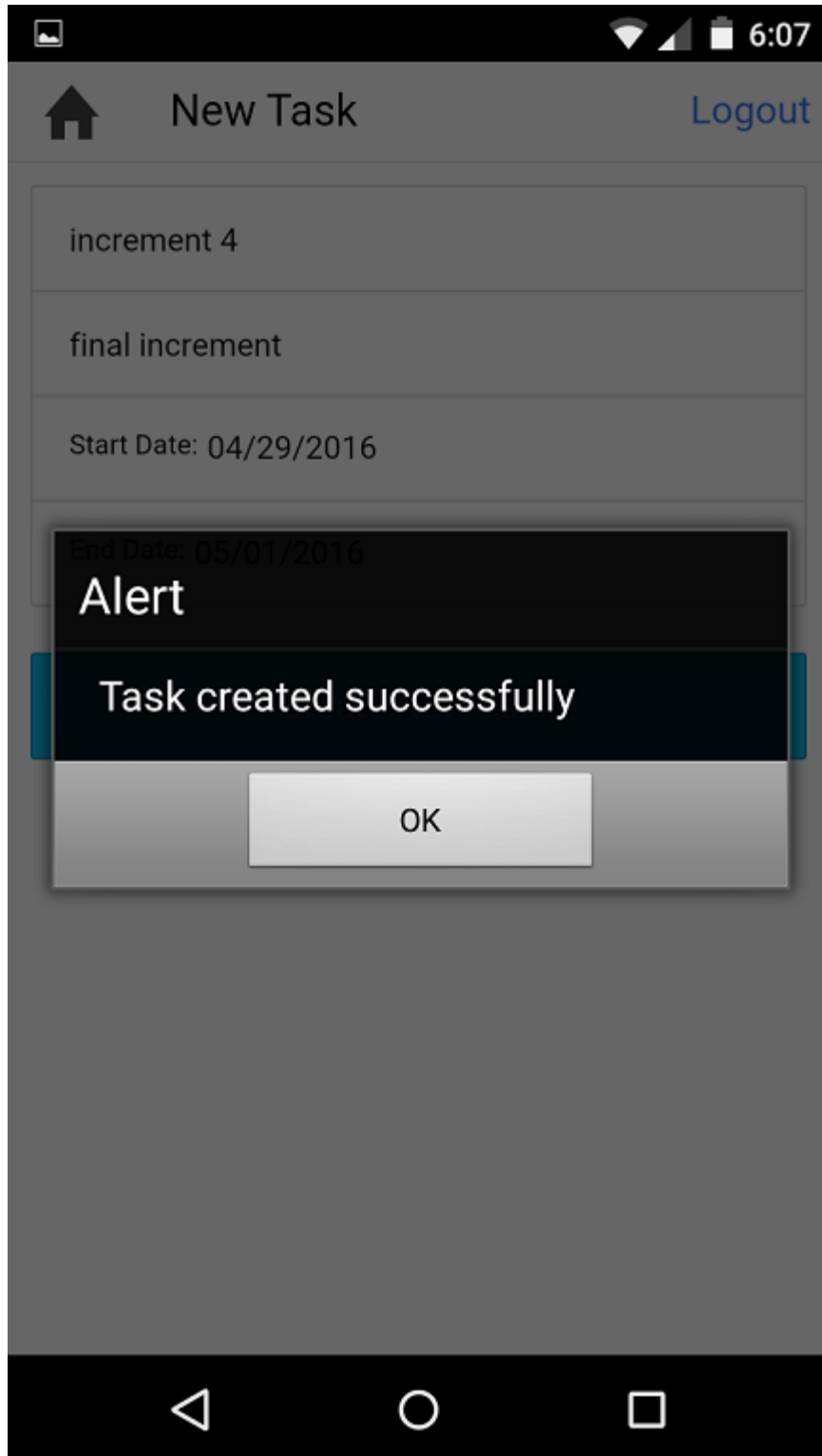
Start Date: 04/29/2016

End Date: 05/01/2016

Create New Task

🏠   New Task   Logout

increment 4

final increment

Start Date: 04/29/2016

End Date: 05/01/2016

Alert

Task created successfully

OK

◁   ◯   ▢

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

Wed

28
Thu

time

29
Fri

time

increment 4

🖐 Big Data demo
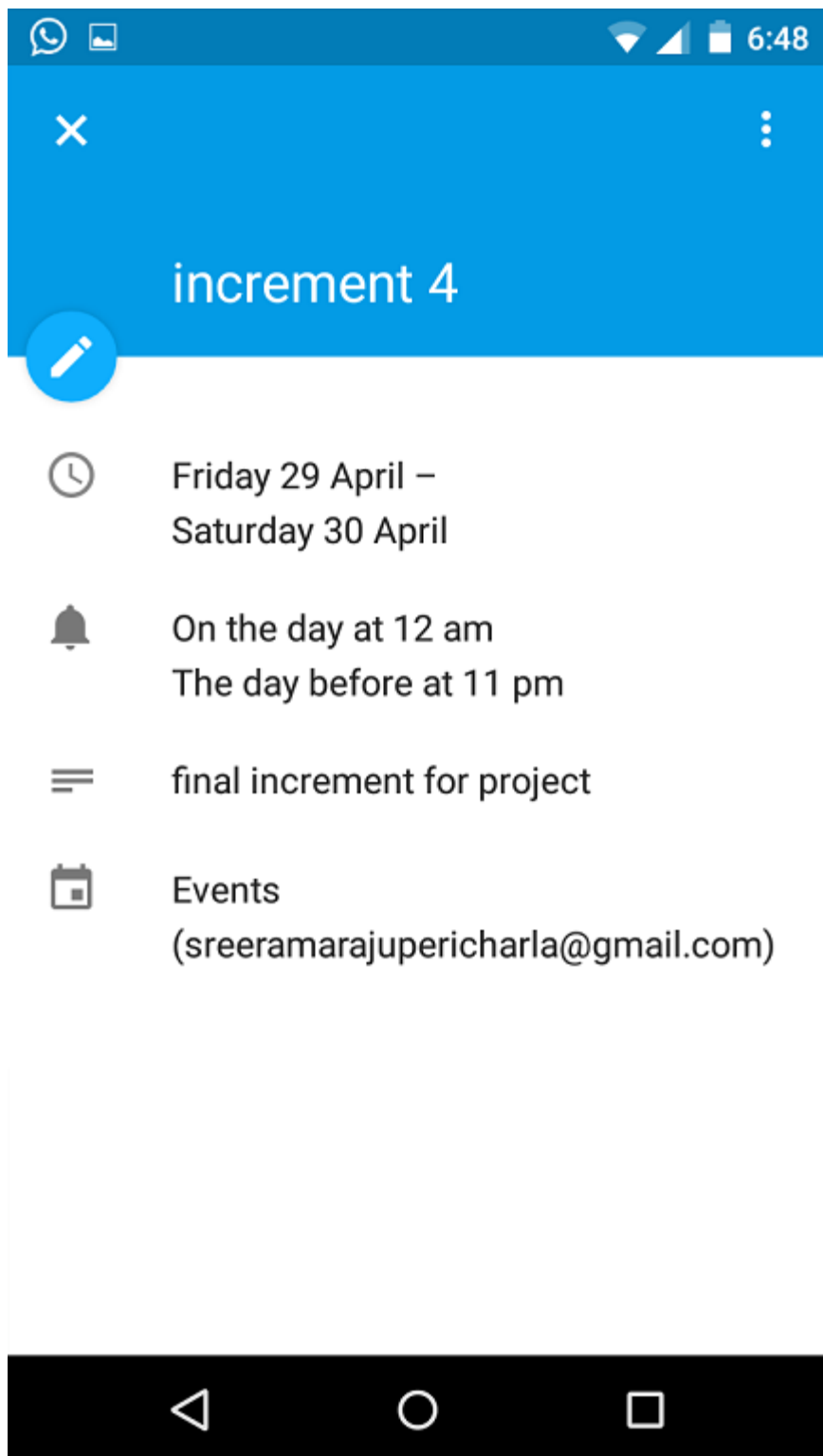
🖐 pay rent
6 pm

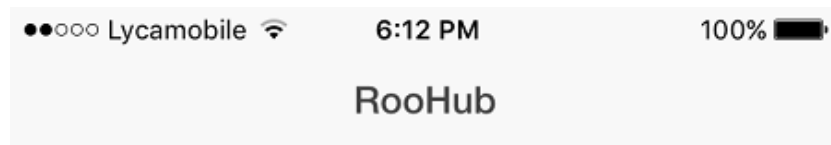**30**
Sat

time

increment 4

May 2016

➕

increment 4

Friday 29 April –
Saturday 30 April

On the day at 12 am
The day before at 11 pm

final increment for project

Events
(sreeramarajupericharla@gmail.com)

IOS screenshots:

Enter Username

Enter Password

Enter Email

Enter any security question?

Enter your answer

Register

🏠   **RooHub**   Logout

Hello, **ram**

Welcome to RooHub

Profile

Board Room

Task Tracker

Get Connected

-

Stay Connected

🏠   **RooHub**   Logout

❮ Back

Welcome to Boardrooms

ASE

PB

NA1

🏠　　　**RooHub**　　　Logout

❮ 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 : 😊

🏠   **RooHub**   Logout

‹ 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

🏠 **RooHub** Logout

‹ Back

Task Tracking Organizer

↻

<div style="background:#29ABE2; color:white; text-align:center;">

Create a Task

</div>

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

🏠   **New Task**   Logout

❮ Back

Task

Have to be done

Start Date:29-Apr-2016

End Date:03-May-2016

Create New Task
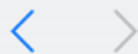
❮   ❯   Clear   Done

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:

mLab: MongoDB-as-a-Ser... ×

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

Home

Database: roohub

× Delete database

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

× Delete all collections   + Add collection

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

---

mLab: MongoDB-as-a-Ser... ×

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

Home : { db : "roohub" }

Collection: ase_posts

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 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": {
```

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-Serv ×

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

mLab

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

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"
    },
```

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-Serv ×

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

mLab

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

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 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

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
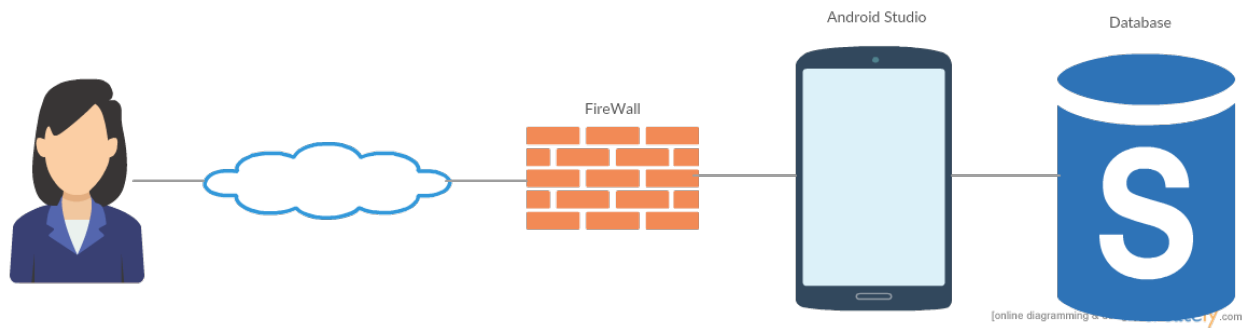
[1 - 10 of 19] next > last >>

```
{
    "_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).

Architecture Diagram:

Android Studio

Database

FireWall

Sequence Diagram:

Register	Login	My Account	Profile	Boardroom	Event

SignUp()

MyProfile()

EditProfile()

Boardroom()

Post()

ReplyPost()

CreateEvent()

ShareEvent()

ManageEvent()

Logout()
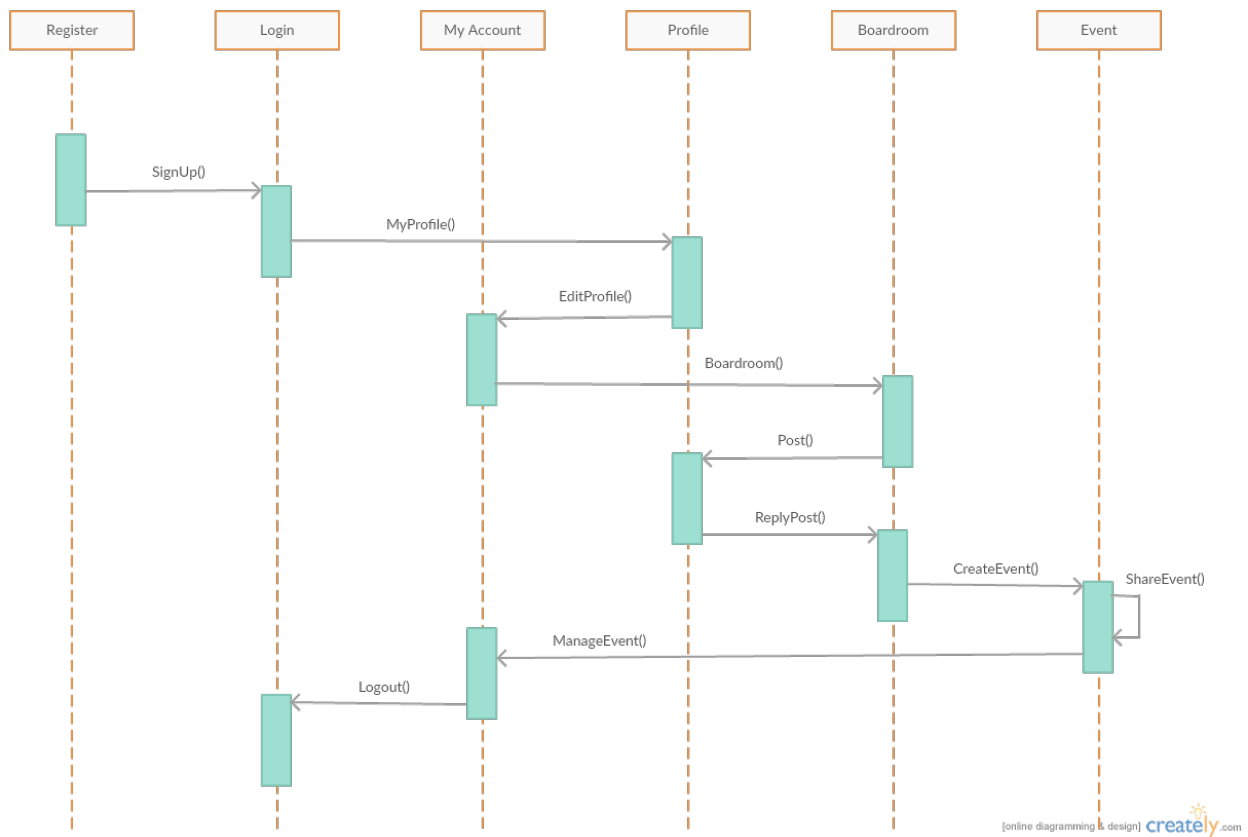
Class Diagram:

Use Case Diagram:

User

Register

Login

User can edit his/her profile

User can add/delete subjects

User can access his/her subjects boardrooms

User can create events and can be synced with Google calender

User can post queries in the Boardroom

User can share the posts through various social networking sites

User can see the list of students in the Boardroom

USer will get updates and announcements about the class activities

User can share the activities through various social networking sites

USer can chat with their peers
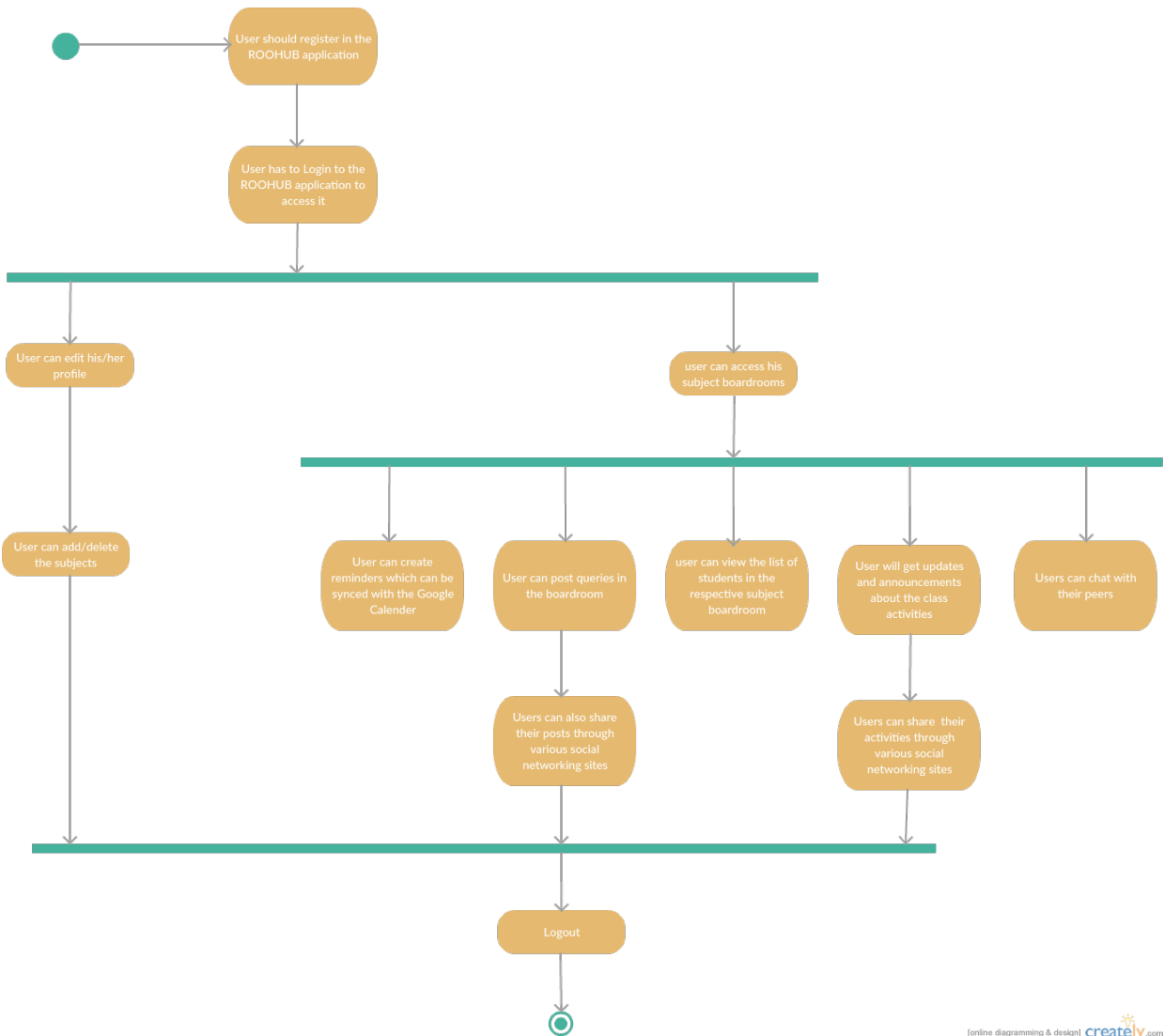
Activity Diagram:

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.

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 everything that we have planned to do and also build an IOS app for our application.

Time to be taken:
NA.

Bibilography:

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

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

GitHub link:

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