# **SMALL TASKS AT HAND- INCREMENT 3**

Ayinala kaushik (Class ID: 4)

Yaswanth Bonda (Class ID: 6)

Tharkin Vankayala (Class ID: 34)

Ravi Teja Yakkala (Class ID: 38)

#### **OBJECTIVES:**

- Every new user can register to be as a part of our application by using our Login page and Register Now options.
- Every Employer can give a feedback on the employee who did his assigned job, how well did he do that.
- User can select the location of the job instead of getting it automatically from the device GPS current location.

#### **EXISTING SERVICES/API:**

In this third increment we used the GOOGLE MAPS API to make the application user friendly by giving the option to the user/employer to choose his location where to locate an address of the task he is posting.

```
Example: <meta-data
android:name="com.google.android.geo.API_KEY"
android:value="API_KEY"/>
<fragment xmlns:android="http://schemas.android.com/apk/res/android"
android:name="com.google.android.gms.maps.MapFragment"/>
```

Another API we REST API used is the same as the one we used previous increment provided by the MongoLab to access the MongoDB.

Example: https://api.mongolab.com/api/1/databases?apiKey=mykey

#### **DETAIL DESIGN OF SERVICES:**

#### **USER STORIES:**

So far we developed the job posting of a new user by letting him register for free as a new user, giving the user to select his own location of the task he is posting and also the employer can post us feedback about the employee how he did the task well or not. In the later section we will integrate those parts. The picture below shows the stories and progress of our project at the end of the third iteration.

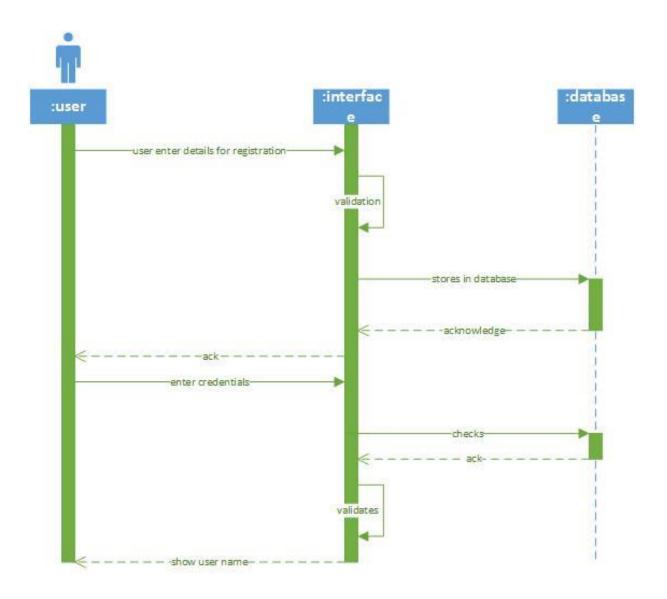
#### **SERVICE DESCRIPTION:**

We have developed three services in this increment.

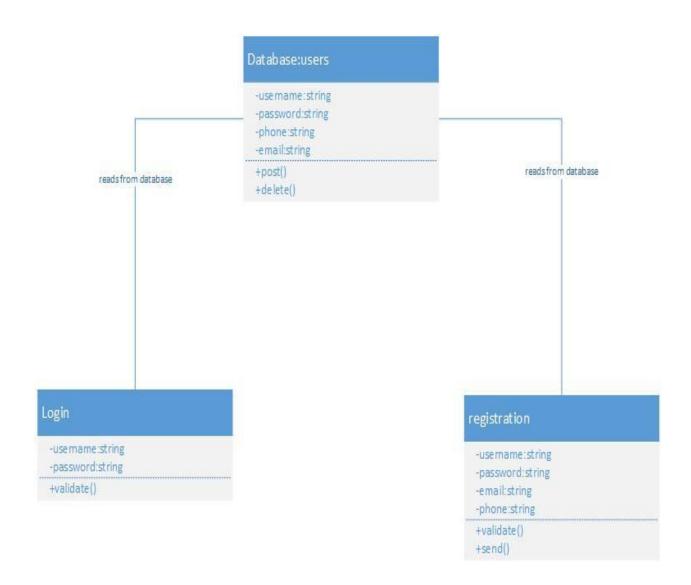
#### 1. LOGIN AND REGISTRATION:

In this service any new person can become a part of our users by registering as a new user in our application. He can fill in all the required details and press submit so that his details get registered with us and give him a new account so that he can login into our application with his given unique ID provided by us.

# **SEQUENCE DIAGRAM:**

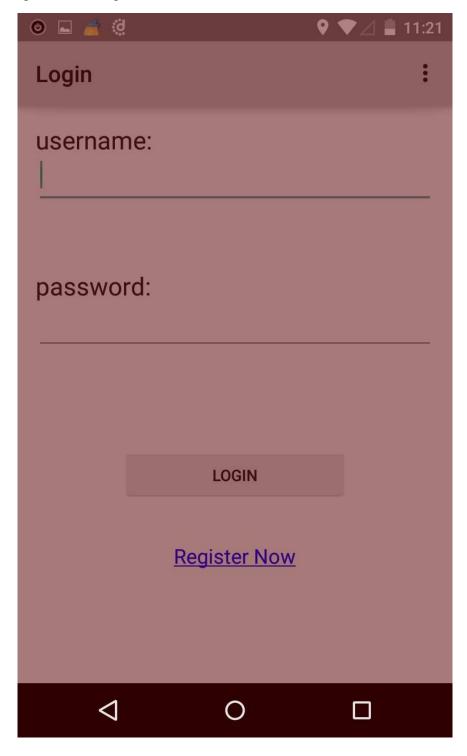


# **CLASS DIAGRAM:**



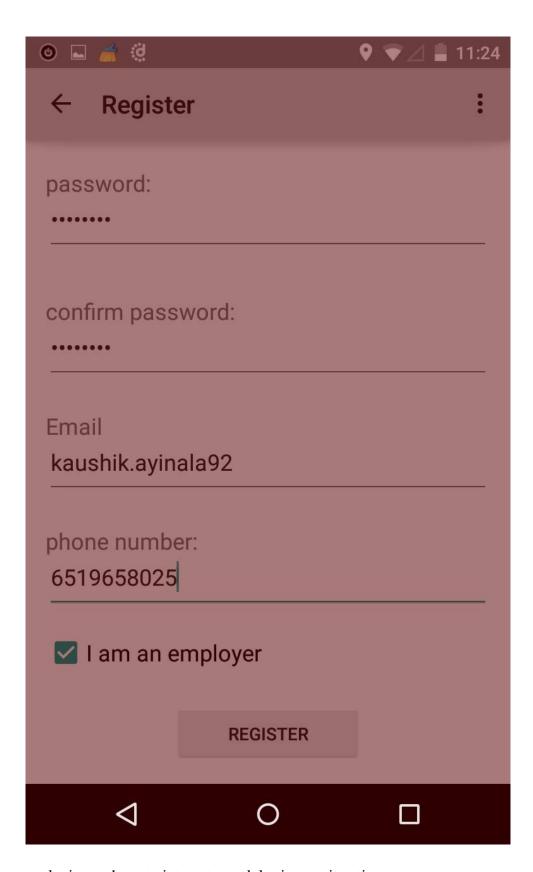
# MOBILE CLIENT INTERFACE:

User can login using the following user interface



User can register using the below interface

◎ 🗖 🦂 હ	♥ ▼⊿ 🛢 11:23
← Register	:
username:	
password:	
confirm password:	
Email	
phone number:	
☐ I am an employer	
0	



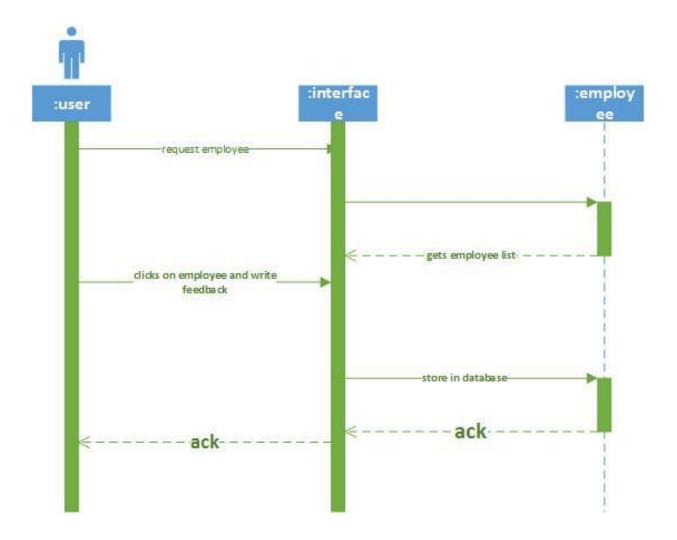
After user login, we have to integrate modules in next iteration



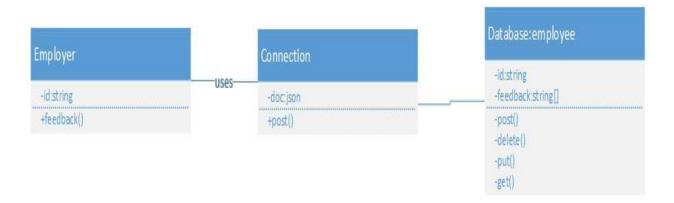
### **DESIGN OF TEST CASES:**

- Wrong credentials for login should be detected
- Test REST api
- Check validation of input fields in registration
- 2. FEEDBACK: By using this service employer can give feedback to employee. Employer can give feedback to employee for those he hired.

# **SEQUENCE DIAGRAM:**

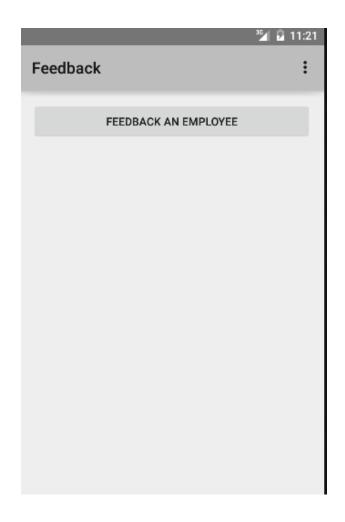


# **CLASS DIAGRAM:**

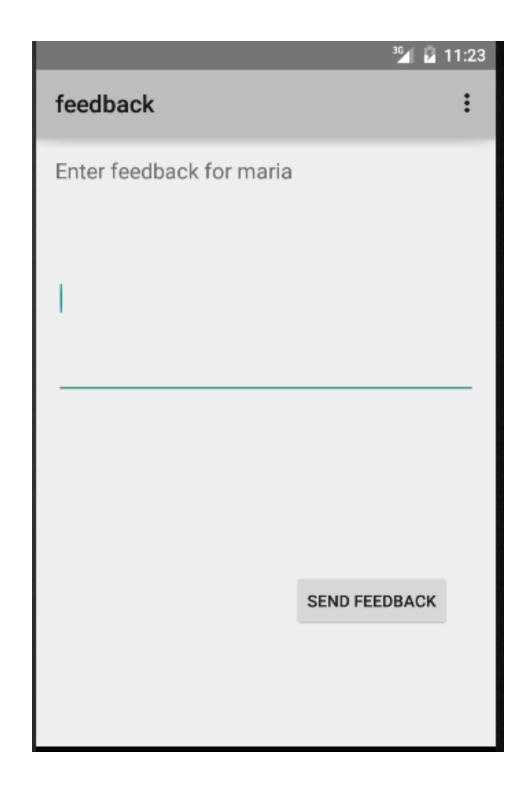


### **MOBILE CLIENT INTERFACE:**

On pressing the button employer can see list of employee that he/she hired



	³½ ½ 11:22
ResultActivity	:
keith	
maria	
john	

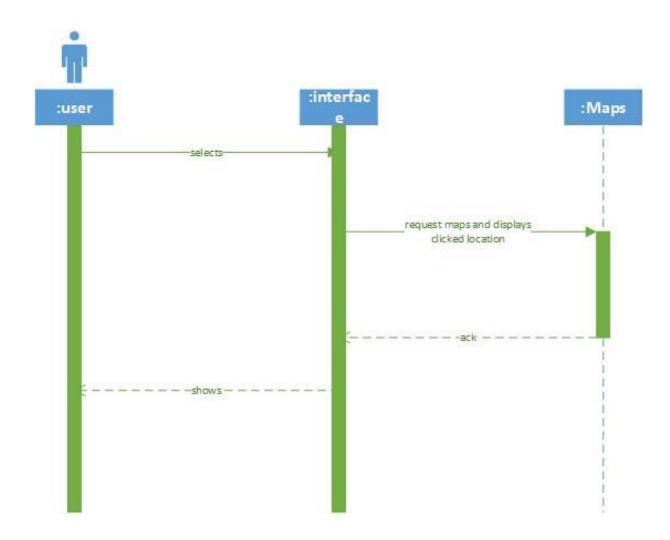


# **DESIGN OF TEST CASES:**

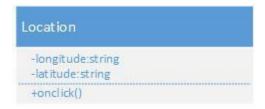
- 1. Employer can see only the list of employee that he hired
- 2. Test REST API

3. Location Service: user can select the location of task which he wants to post. This service is integrated to Task Post module

# **SEQUENCE DIAGRAM:**



### **CLASS DIAGRAM:**

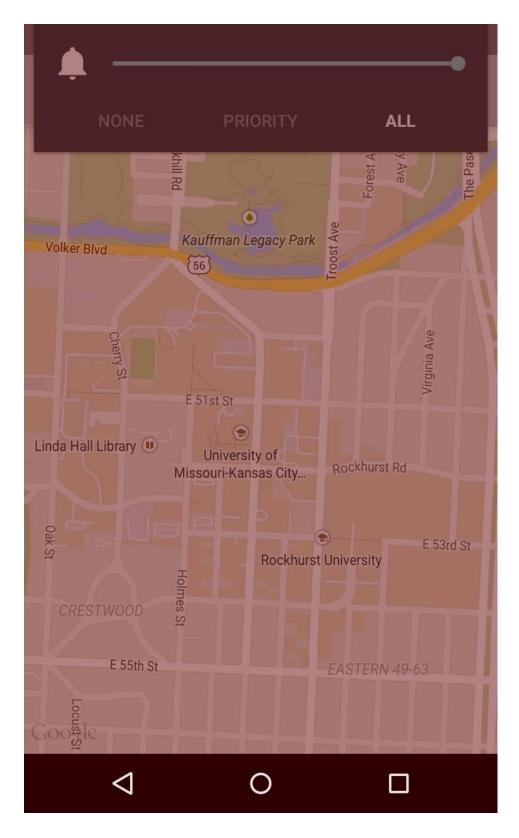


# **MOBILE CLIENT INTERFACE:**

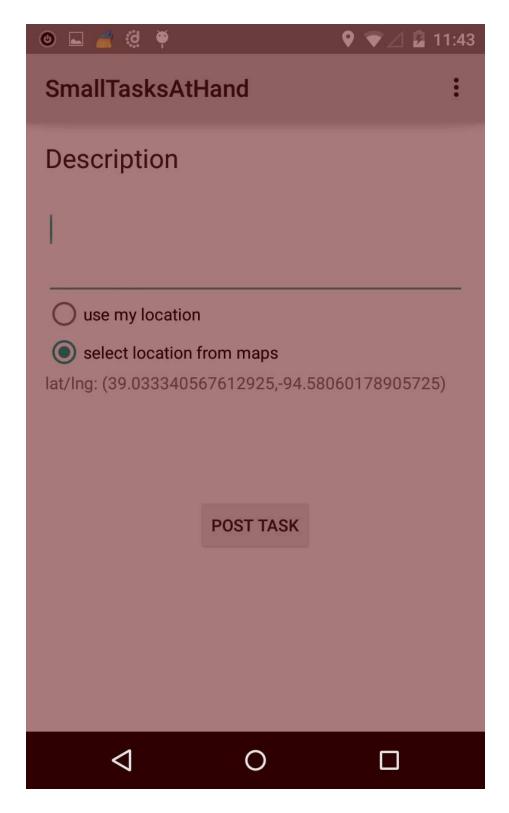
User can select location from maps



After clicking on select from maps user will redirected to activity that contains maps



User can see the location that he selects



### **DESIGN OF TEST CASES:**

1. Maps should return the co-ordinates of the location where user clicks.

#### **IMPLEMENTATION OF USER INTERFACE:**

All services will have user interface in android. In this service we developed three services and all are having user interface.

### 1. Login and Registration:

In this service we have two activities. First if it's a new user then he should register as a new user and then he will receive his unique ID provided by the application. Then secondly he can login into the application by using his received unique provided by the application.

#### 2. **FEEDBACK**:

In this service we have only one activity that is the employer who posted a task and got it done/completed by an employee of our application then he can give feedback about the employee whether he completed the task in given time and good manner or he did not respond to the calls or messages sent by the employer or did not follow particular instructions given or did not follow the particular order in doing a set of subtasks.

#### 3. SELECTION OF LOCATION IN MAPS:

In this service we give the option of choosing the location of the job by the user. On selecting the option to select the location user will be redirected to maps activity and when user clicks on maps the clicked position will be returned to main activity.

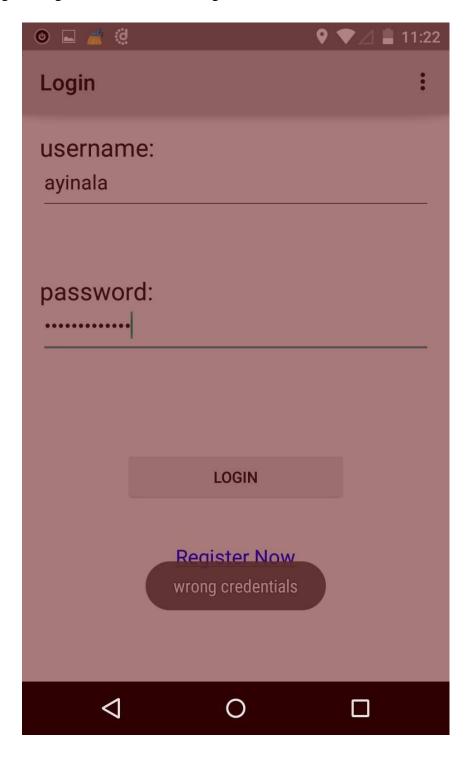
#### **IMPLEMENTATION OF TEST CASES:**

- REST API were tested using postman chrome extension and functional testing is done using mongoDB shell. Detailed explanation was given in testing.
- Test cases are tested by using Android Emulator.

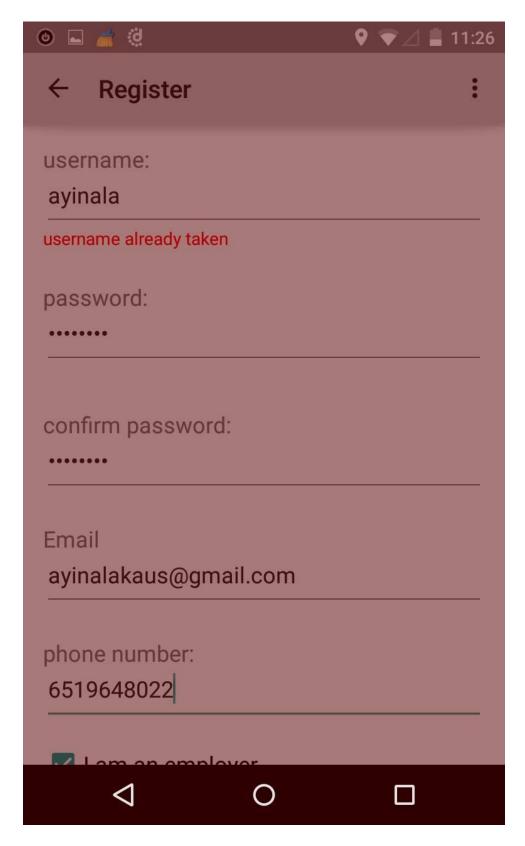
# **TESTING:**

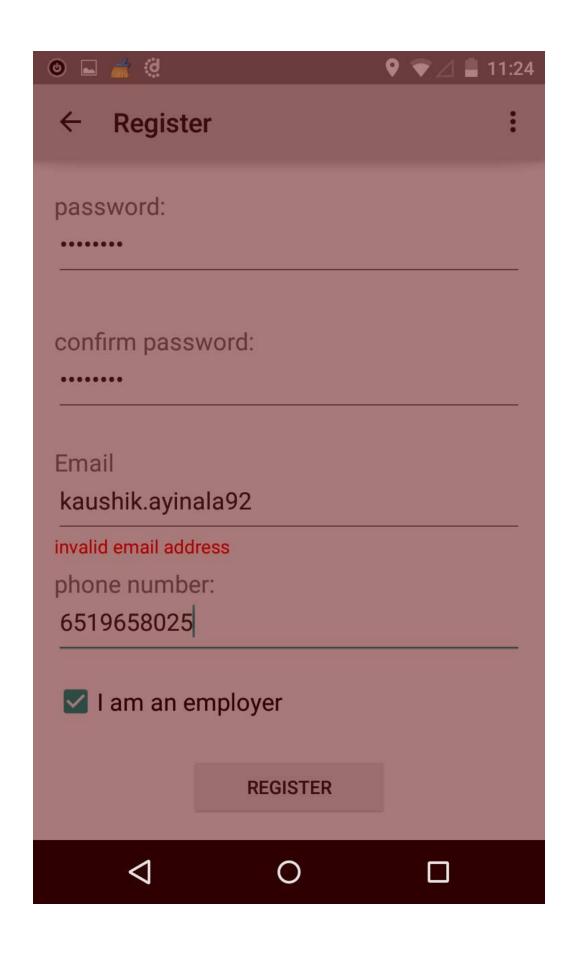
# **FUNCTIONALITY TESTING:**

1. Validating the Login – If user enters wrong credentials, then he should be notified.

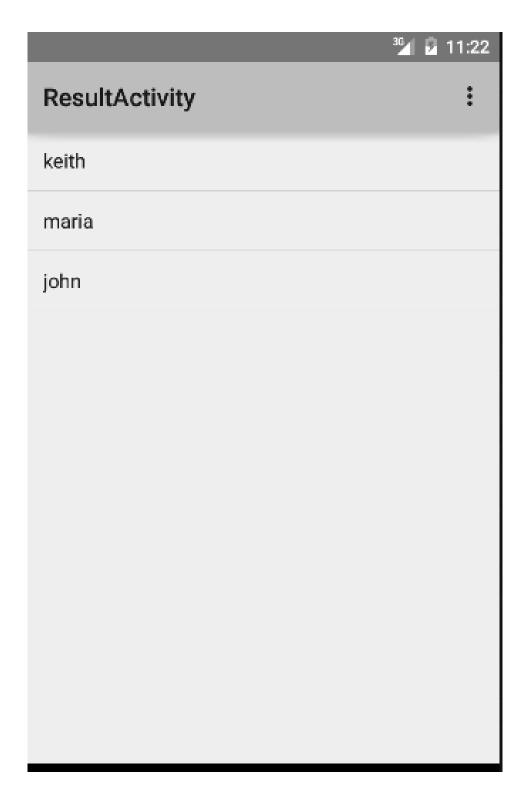


2. All fields in registration should be validated correctly, if any field is filled in wrong by the user then user should be notified and that particular registration must be cancelled.





Employer should be able to give feedback only about the employee that he hired to do his tasks.



```
All Documents

Display mode: ● list ● table (edit table view)

records / page 10 ▼

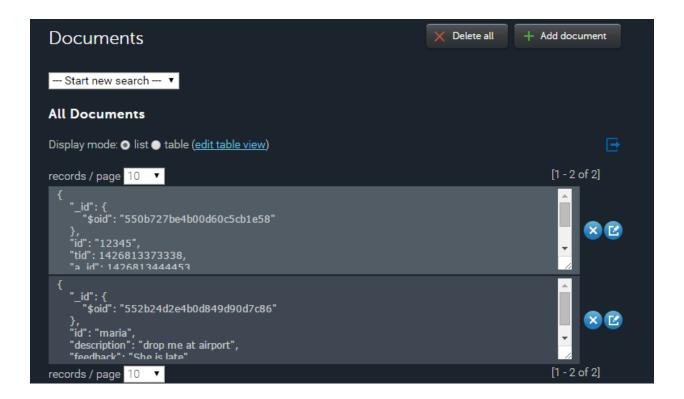
{
    "_id": {
        "$oid": "552b2489e4b0d849d90d7c83"
    },
    "id": {
        "$oid": "552b24d2e4b0d849d90d7c86"
    },
    "id": "maria",
    "description": "drop me at airport"
}

{
    "_id": {
        "$oid": "552b2526e4b0d849d90d7c88"
    },
    "id": "keith",
    "description": "buy goods for thanks giving"
}

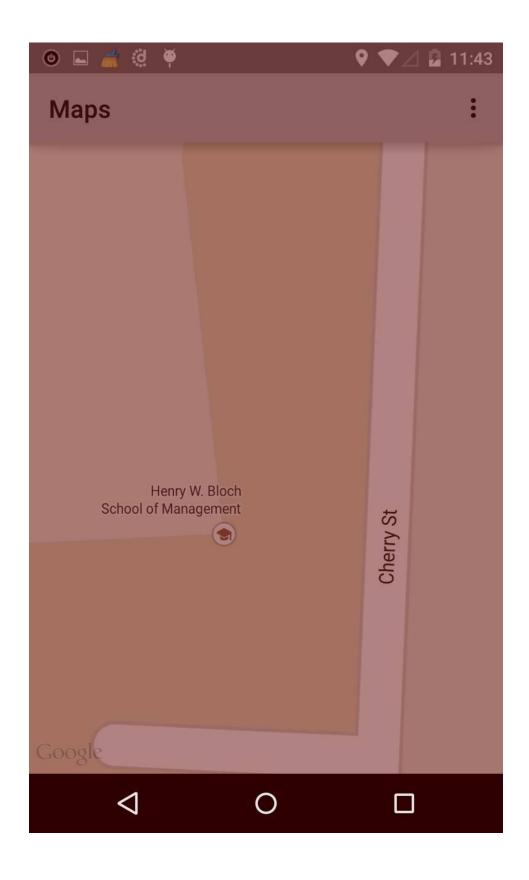
records / page 10 ▼

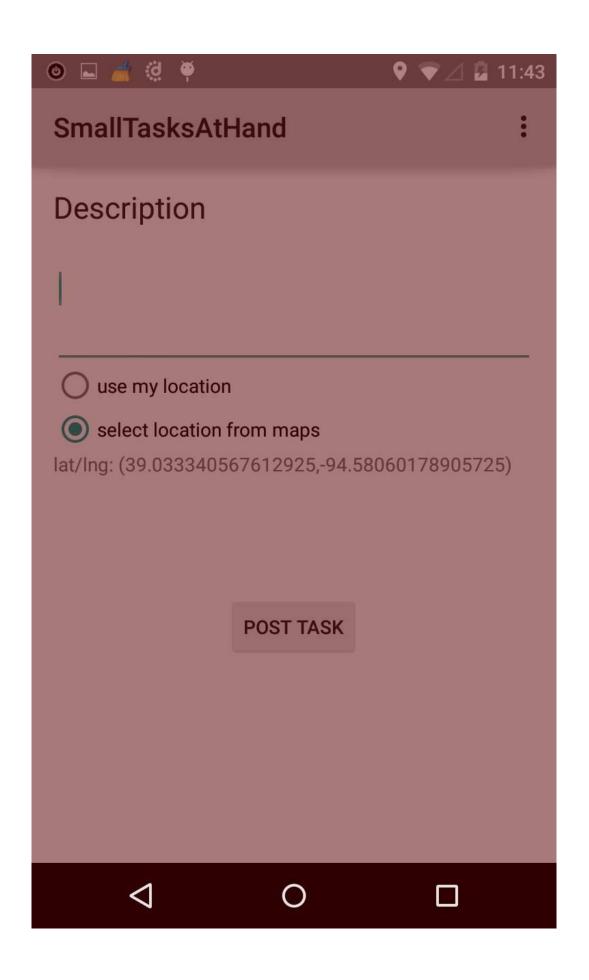
[1 - 3 of 3]
```

3. Check whether feedback is stored in the database or not.

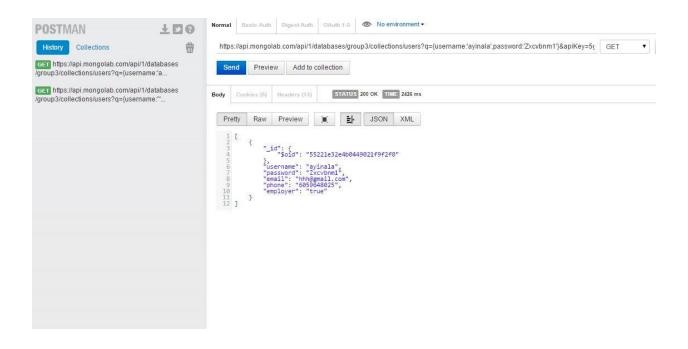


4. Maps should return the address of location where user click's.





### **REST API TESTING**



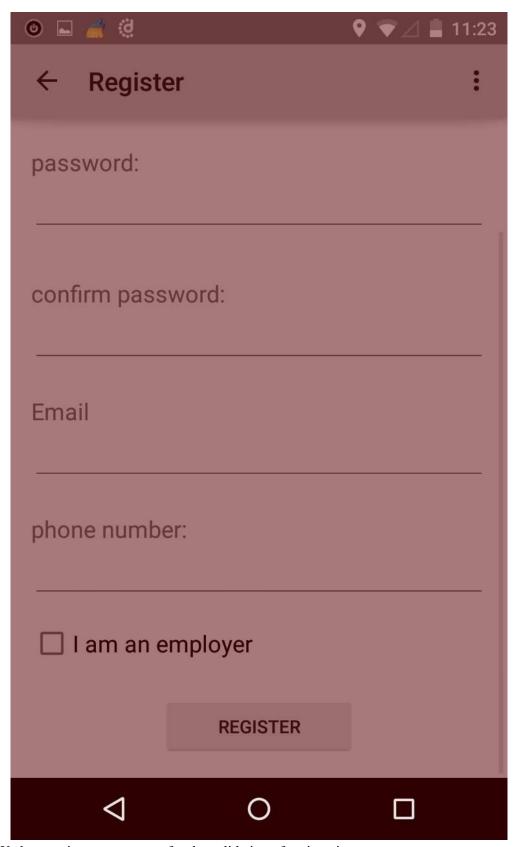
# **Deployment:**

Scrumdo link: https://www.scrumdo.com/projects/project/smalltasksathand1/iteration/126289#

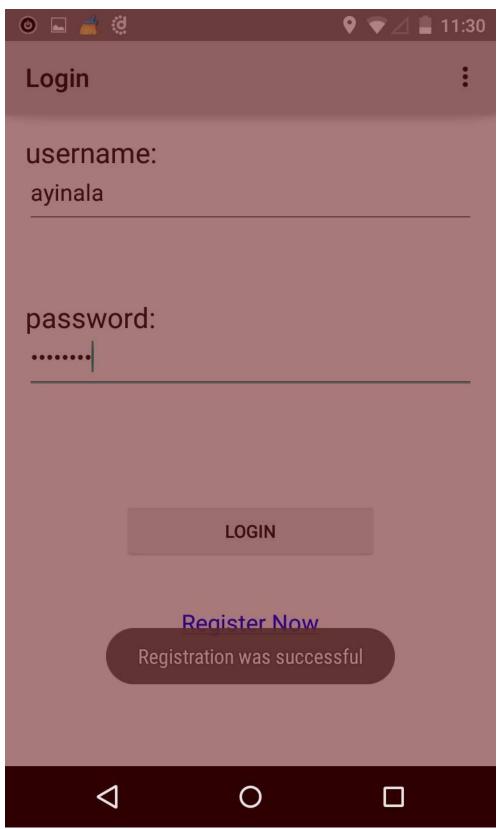
GitHub link: <a href="https://github.com/ayinalakaushik/SmallTasksAtHand">https://github.com/ayinalakaushik/SmallTasksAtHand</a>

### Report:

- At first we have implemented the login service.
- It took some time to implement the scrolling in the registration page.

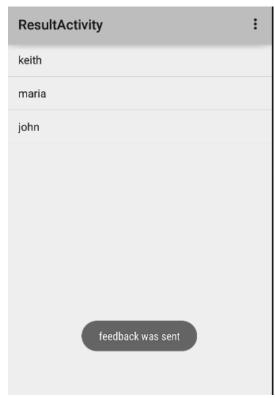


• We have written many cases for the validation of registration.

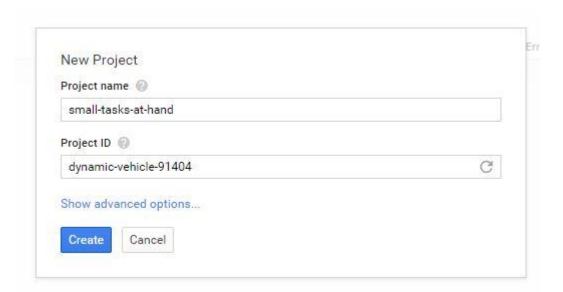


• We have implemented the feedback services in which employer can give feedback to employee to those who he hired.

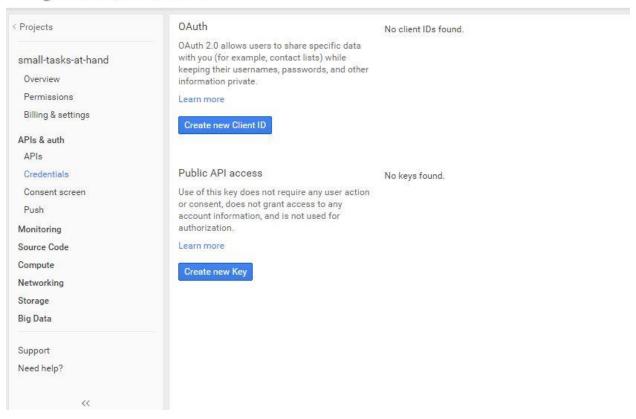
feedback	:
Enter feedback for maria	
She is late	
	_
SEND FEEDBACK	

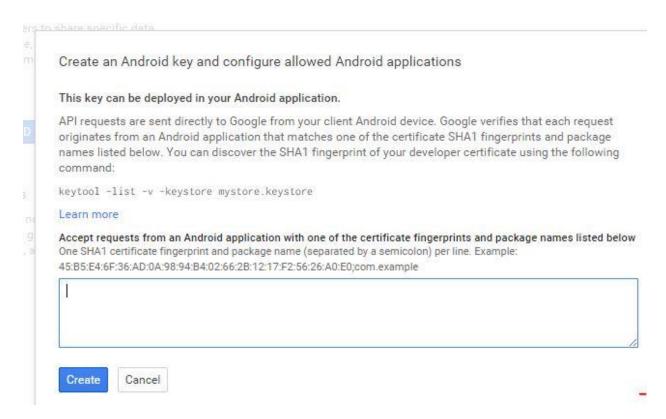


- Next have implemented the map services which is the difficult service in this situation.
- We have obtained API key from google Maps API

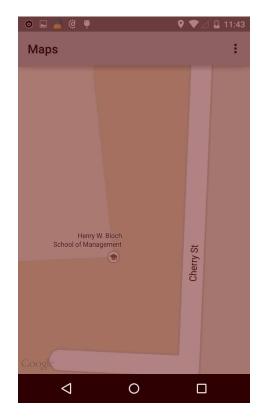


# Google Developers Console





• Using fragments we displayed the map and when the user touches the map we finished the map activity and return the position to main activity.



### **Works Completed:**

We completed three services in this increment.

- 1. Login and registration for the users
- 2. Employer gives feedback to employee. (Feedback Service)
- 3. User can select the location of the task (Map Service)

#### **Team Contributions:**

 Kaushik
 - 30%

 Yaswanth
 - 23%

 Tharkin
 - 24%

 Ravi Teja
 - 23%

First Service (Login and reg)	Second Service (Feedback)	Third Service (Maps)
Kaushik – Login and		Kaushik – Obtaining and
registration UI		integrating API key, play
(Time Taken-10 hours)		services, maps UI
Yaswanth- Connection to	Yaswanth- UI	Yaswanth- written logic
database(Improved)	(Time Take- 2 hours)	code to return data from
(Time Taken-9 hours)		maps
		(Time Taken- 2 hours)
Tharkin- Validation of login	Tharkin- Database Schema	Tharkin- connection to
and registration	(Time Taken- 2 hours)	maps from MainActivity
(Time Taken- 7 hours)		using fragments
		(Time Taken- 2 hours)
Ravi Teja- Testing of fields	Ravi Teja- Logic and testing	Ravi Teja- Testing
(Time Taken- 4 hours)	(Time Taken- 8 hours)	(Time Taken- 2 hours)

**Work to be completed:** We have planned to integrate all the services that we have implemented till now but we are unable to integrate right now due to the construction of classes.