

SMALL TASKS AT HAND

I.INTRODUCTION:

One gets busy in his daily routine and may not even have enough time to do small tasks such as posting mails, bringing your household stuff, babysitting in your house, riding, cooking, catering etc. Those who want their job to be done will post the specific task with details in our application and those who want to make money will take the tasks from our application.

II.PROJECT GOAL AND OBJECTIVES:

Overall Goal: To develop an android application which helps the users to search and request for the small tasks around him and at the same time user can post the small tasks.

Specific Objectives: The main objectives of this project are:

- To get small works done for a busy person in his daily routine.
- And to make a person earn at least his daily living.

Significance: users can see tasks that are available nearby in maps and earn his living, users can post the tasks in this way he can get the task done. Employers and employee will find each other by using this application, thus both users meet to their requirement and they will be benefited.

III.PROJECT BACKGROUND AND RELATED WORK:

The idea of this project comes from the scenarios where people can't find time to do even their small tasks. Such as sending a courier, posting a mail because the office hours of these jobs are same as a person's daily office times. So few people won't be able to do these small tasks also. And other minor tasks such as to plan a sudden party, so we need people to do catering, or babysitting, helping old people, gardening, picking up relatives from airport.

There is a website named "Freelancer" which works in a way as we thought to implement the project. It has two options like "Hire" and "Work" where people can sign up and post a job to be done(generally a technical or coding related jobs) by using the hire option or they can search a job. Employee can view the posted jobs and he can bid a job.

Similarities:

- There will be Employee or Employer.
- Employer can post job.
- Employee can search job.
- Employee can bid a job.
- Employer will accept the job.

Difference:

- This website is only about programming in our application we can give any tasks.
- We can get nearby jobs.
- We develop in android phone.

- We can see the jobs in Google maps.

IV.PROPOSED SYSTEM:

1) Requirement Specifications:

Functional Specifications:

- Employer can register and login to the application and he can post the task that is required for him.
- At the same time the other users who are willing to do the task can login into the application and search for the tasks that are nearer to him.
- If the employee likes to do any particular task then he can bid that particular task.
- The employee can also access the maps so that he can easily find a route to reach the destination.
- The employer can also give the feedback to the employee.
- The employer can also transfer the amount to the employee.

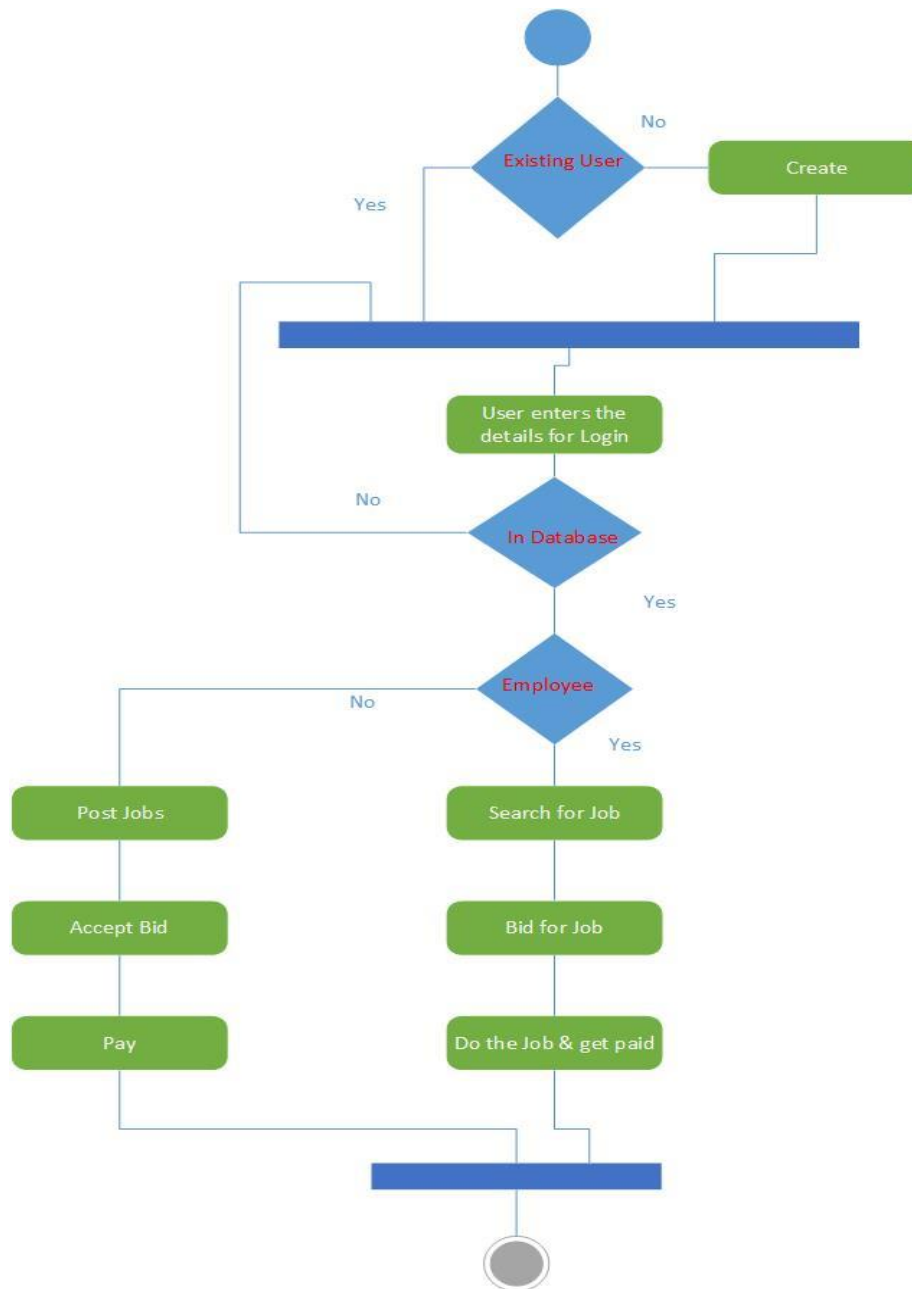
Non Functional Requirements:

- Any user can use this application.
- application is stable

Technical/Business Requirements:

After developing the application we need to maintain only database. For developing the application we need a system with android emulator and mongoDB database.

Work Flow Analysis:



Technological Requirements:

User Interface:

- Android SDK with API 21

Connectivity:

- MongoDB driver

Database:

- MangoDB

IDE:

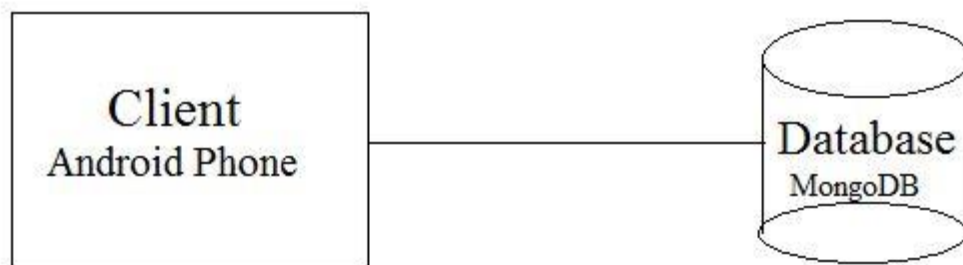
- Android studio

Architectural Requirements:

We will use two tier architecture in which client directly connects to the mongoDB database. To connect to the database mongoDB driver will be used.

2) Framework Specification:**Assumptions**

- Database is always accessible.
- Driver Connectivity with database doesn't fail.
- Android Phone is always stable.

System Architecture Diagram:**3) System Specification:****Existing Services:**

1. Google Maps API
Description: Used to locate the destination and shows the route for that specific point
URL: <https://developers.google.com/maps/documentation/android/>

2. Payment Gateway API:

Description: Used to transfer the amount between the employee and the employer

URL: <https://developer.paypal.com/webapps/developer/docs/classic/api/>

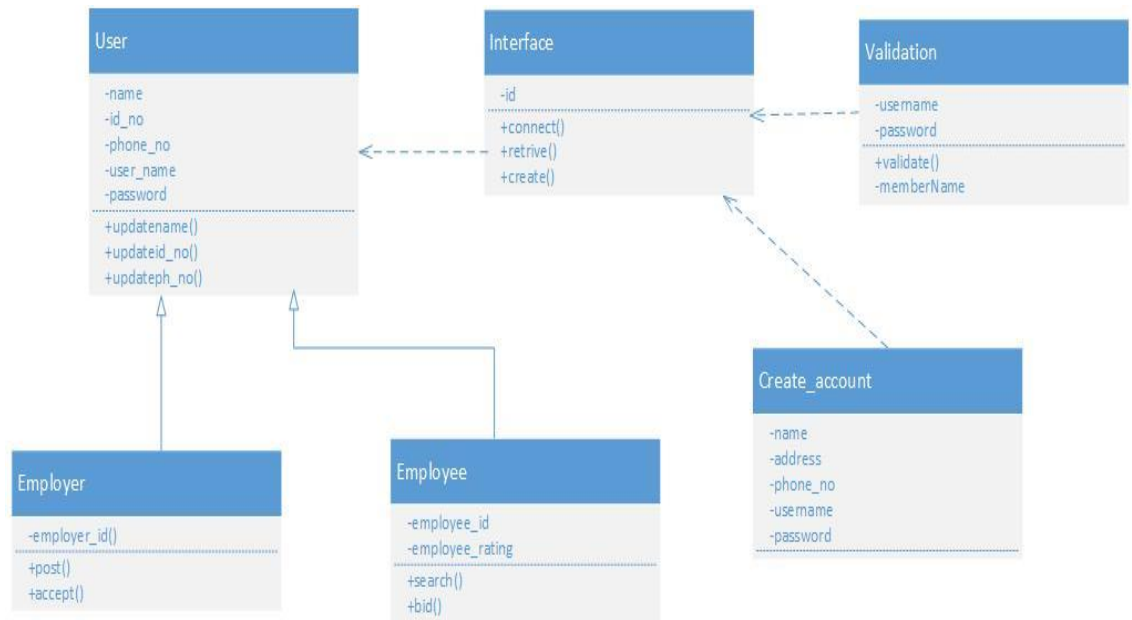
New Services to be built:

1. Login:

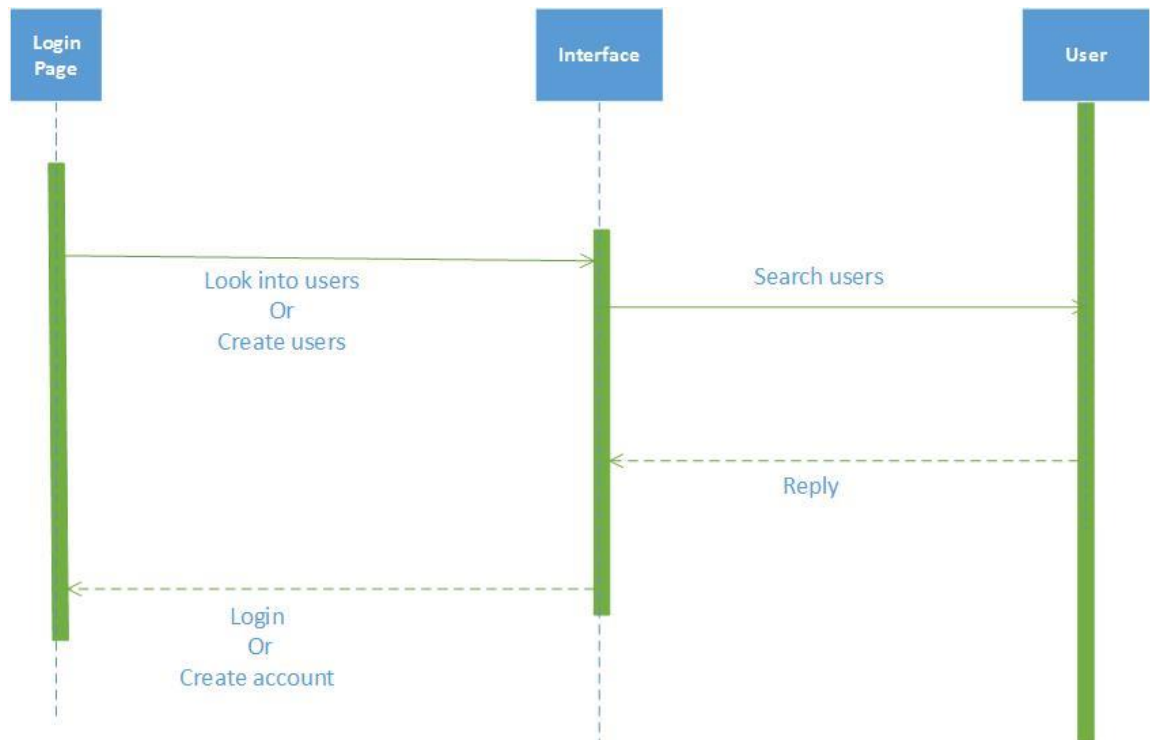
Input: User Id and password

Output: Verifies with the database whether the credentials are available or not available in the database.

Class diagram:



Sequence Diagram:



2. Posting the Job Information:

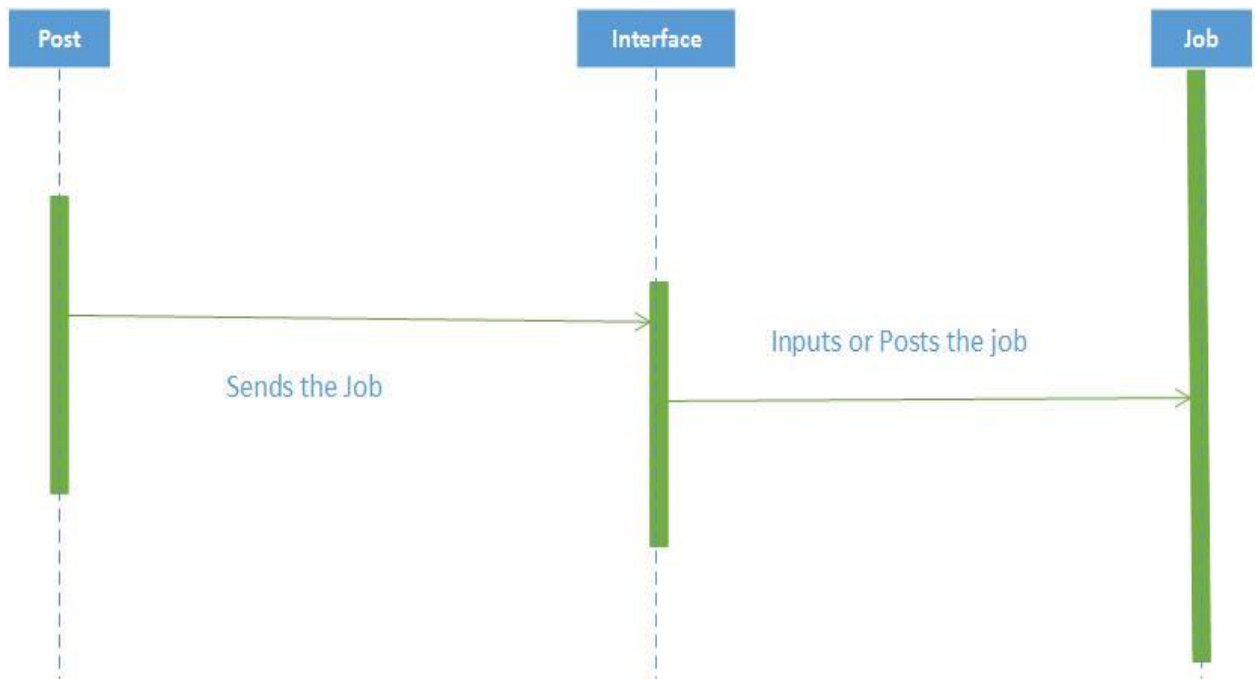
Input: Employer login to his account and post the job required to him.

Output: Task goes into the database.

Class Diagram:



Sequence Diagram:

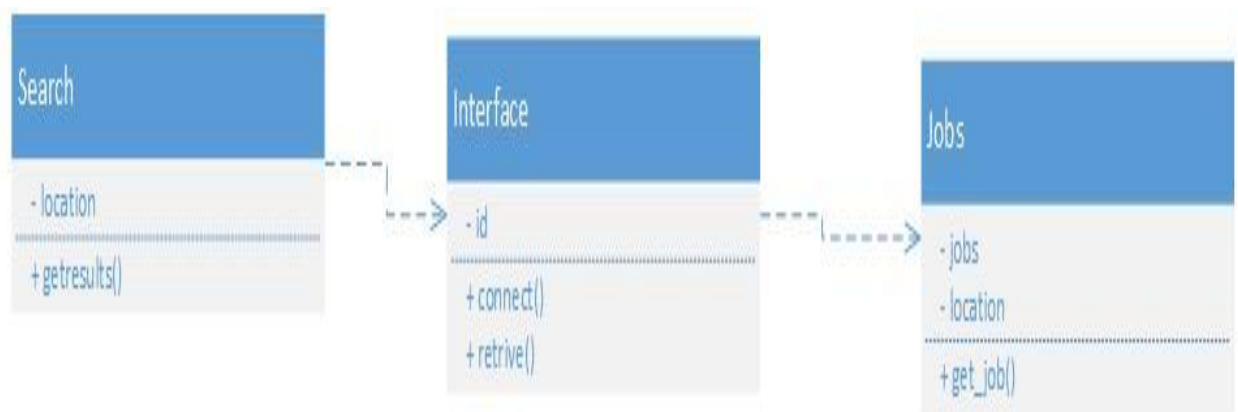


3. Search the Job Information

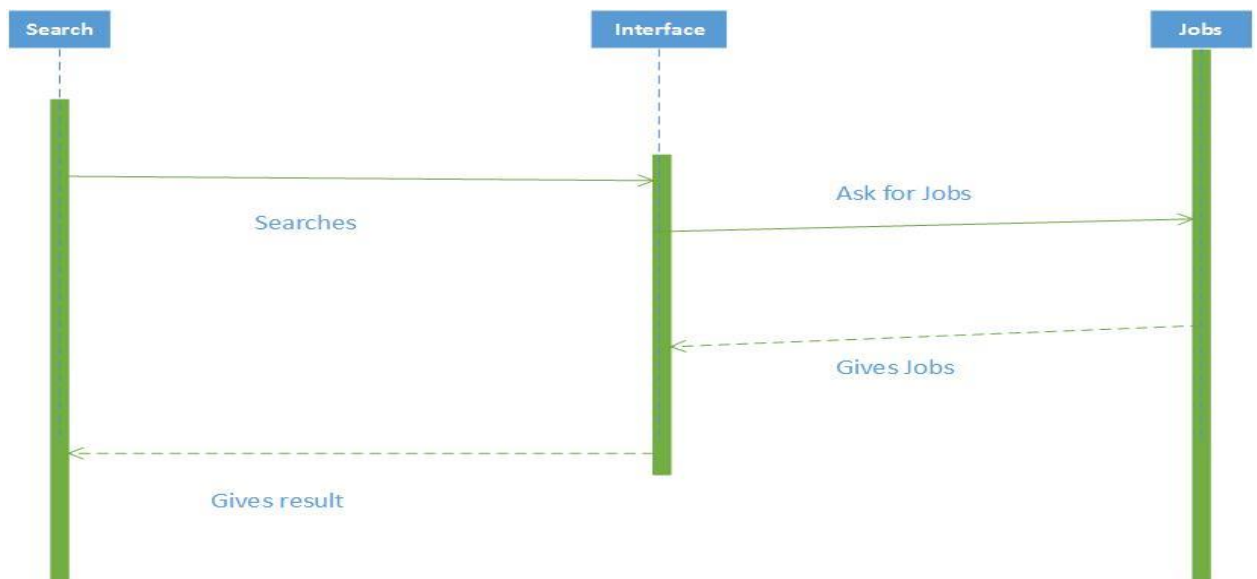
Input: Location

Output: It shows the various jobs available near to my location.

Class Diagram:



Sequence Diagram:

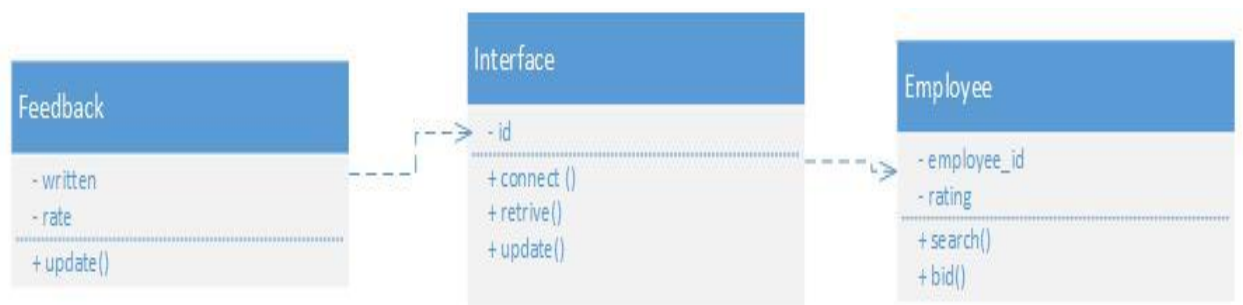


4. Feedback :

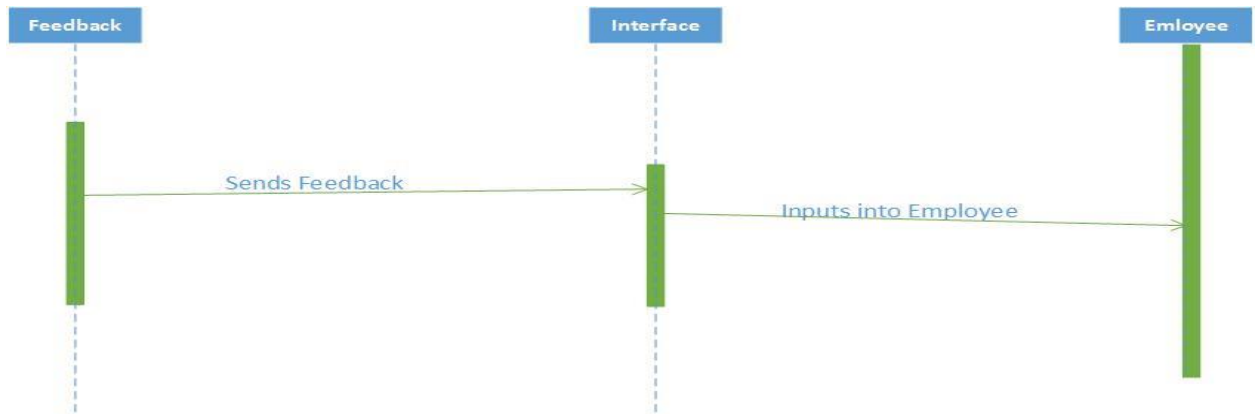
Input: Employer inputs employee feedback

Output: Feedback of that particular employee goes into the database.

Class Diagram:



Sequence Diagram:



5. Payment:

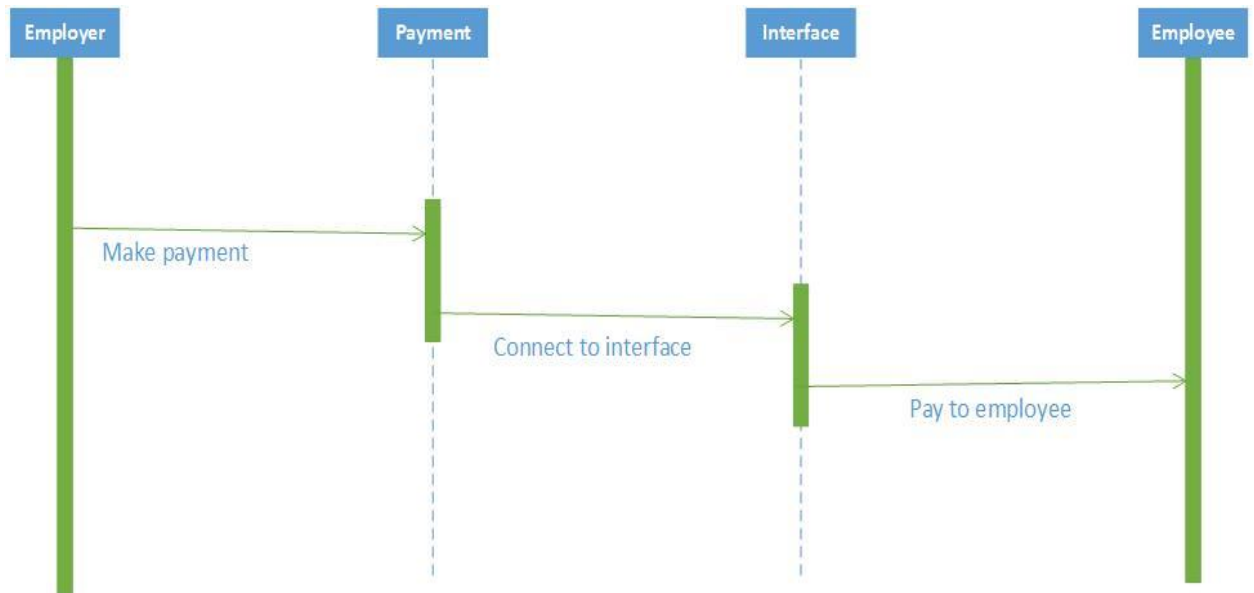
Input: Employer enters the amount he has to give to the employee.

Output: Money Transfer to employee.

Class Diagram:



Sequence Diagram:



V. PLAN BY SERVICES (Using ScrumDo):

Small Tasks At Hand

First Increment	Second Increment
<div>#5 As a user i want to do unit testing Todo Tasks 0 Comments 👤 ayinalakaushik, rybp3 13</div> <div>#4 write connectivity to insert task in database Todo Tasks 0 Comments 👤 #E2 👤 Yaswanthbonda 20</div> <div>#3 install and configure ,create tasks document in mangoDB Todo Tasks 0 Comments 👤 tharkinvakayala 13</div> <div>#1 Complete Epic 2 which is posting the job Todo Tasks 0 Comments 👤 #E2</div> <div>#2 As a user i want to write description of the task and location of task In android implement front end for summary Todo Tasks 0 Comments 👤 #E2 👤 ayinalakaushik 20</div>	<div>#10 test and find flaws if any flaws are found patch them Todo Tasks 0 Comments 👤 #E3 👤 ayinalakaushik, tharkinvakayala</div> <div>#9 connectivity to database and retriving result Todo Tasks 0 Comments 👤 rybp3 13</div> <div>#8 As a user i want to know tasks nearby implement logic to retrive specific results in database Todo Tasks 0 Comments 👤 #E3 👤 ayinalakaushik 40</div> <div>#6 complete searching service Todo Tasks 0 Comments</div> <div>#7 Get the user location in phone Todo Tasks 0 Comments 👤 Yaswanthbonda 8</div>

Small Tasks At Hand

Third Increment
Filter

Fourth Increment
Filter

#16 testing
Test feedback and login services are working perfectly if any flaws are found patch them
Todo Tasks | 0 Comments Yaswanthbonda 20

#15 create front end and connectivity for feedback service
Todo Tasks | 0 Comments tharkinvankayala 20

#14 create frond end for login and connectivity class
validate the login details or create an account
Todo Tasks | 0 Comments rybp3 20

#13 create user and feedback collection in database with required fields
Todo Tasks | 0 Comments ayinalakaushik 13

#11 complete login and feedback services
Todo Tasks | 0 Comments

#12 As a user i want to know whether i am an employee or employer
Todo Tasks | 0 Comments ayinalakaushik 8

#20 test the payment service if any bugs are found patch them
Todo Tasks | 0 Comments #E4 rybp3 13

#19 create connectivity class for payment using paypal api
Todo Tasks | 0 Comments #E4 ayinalakaushik, tharkinvankayala 40

#17 complete payment service
Todo Tasks | 0 Comments

#18 create user interface for money transfer and for balance checking
Todo Tasks | 0 Comments #E4 Yaswanthbonda 20

Iterations

	Name	Stories	Start	End
	Backlog	0 stories		
	First Increment	5 stories	Feb 12, 2015	Feb 25, 2015
	Second Increment	5 stories	Feb 26, 2015	Mar 18, 2015
	Third Increment	6 stories	Mar 19, 2015	Apr 08, 2015
	Fourth Increment	4 stories	Apr 09, 2015	Apr 29, 2015

BIBLIOGRAPHY:

- <https://www.freelancer.com>
- <https://developers.google.com/maps/documentation/android/>

- <https://developer.paypal.com/webapps/developer/docs/classic/api/>

PROJECT TEAM MEMBERS:

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