



## **Internship Report**

**Presented by**

Md. Zahidul Islam Mazumder

ID: 161-35-1483

**Supervised by**

Asif Khan Shakir

Senior Lecturer, SWE

Daffodil International University

# Letter of Transmittal

December 3, 2019

Asif Khan Shakir

Lecturer

Department of Software Engineering

Shukrabad,Dhanmondi,Dhaka-1207

**Subject: Submission of Internship Report**

Dear Sir,

It is without a doubt my delight to yield the internship report to you for your kind examination. I have fulfilled my internship at the Porate Chai which may be a sister company of GPS Bangla. Amid internship, I got colossally colossal sum of fortress from the authorities for planning my report in time. The encounters I have amassed will be exceptionally assistant within the proficient life.

I accept, this report will be very captivating and perfect your prospect. I have endeavored to grant my best endeavors to get ready a comprehensive report. I will be thankful in case you acknowledge my report and your kind thought will be profoundly acknowledged.

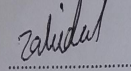
Sincerely Yours,

Md Zahidul Islam Mazumder

**DECLARATION**

I therefore announce that, this internship has been done by me beneath the supervision of Asif Khan Shakir, Teacher, Daffodil International University. I withal pronounce that not one or the other this internship report nor any component of this venture has been submitted somewhere else for grant of any degree.

**Submitted by:**



Md Zahidul Islam Mazumder

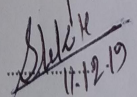
ID: 161-35-1483

Department of Software Engineering

Faculty of Science and Information Technology

Daffodil International University

**Certified by:**



Asif Khan Shakir

Lecturer

Department of Software Engineering

Faculty of Science and Information Technology

Daffodil International University



SHOT ON MI A2  
MI DUAL CAMERA

# ACKNOWLEDGEMENT

An internship cannot be culminated without noteworthy profit from others. To begin with I thankfully recognize the profit and bolster from my guardians, edifiers, managers, companions and others, whose bolster has been important for me. I would savor to thank Tanveer Fahad Haq, founder & managing partner of “Porate Chai” who designated me as an intern.

Contiguous to of him, I express my appreciation to my honorable scholastic boss, Asif Khan Shakir, Lecturer, who has observed and coordinated me for this report.

## PREFACE

Porate Chai is Bangladesh's first ever astute online student-tutor matching platform catered to the desiderata of a student and tutor. It commenced its journey on 1st December 2017.

It has set out on a peregrination to engender a fortification infrastructure to make inculcation more efficacious. It believes inculcation should be more tech-enabled, and open.

Tutors outside of conventional academia should be more empowered. And students should have access to more better modes of cognition. Its vision is far-reaching when it comes to ameliorating inculcation on all levels. It hopes to engender tremendous value in Bangladesh, and ultimately ecumenical.

It's a child company of GPS Bangla which is mainly directed from UK. They provide several information technology accommodations such as building mobile, web & desktop application with customer requisites.

## Table of Contents

Chapter 1 .....	1
1.1 Preamble.....	1
1.2 Objective.....	1
1.3 Scope.....	1
1.4 LIMITATION OF THE REPORT.....	2
CHAPTER 2.....	3
COMPANY OVERVIEW.....	3
2.1 An Overview of Porate Chai.....	3
2.2 Vision.....	3
2.3 Location.....	3
CHAPTER 3.....	4
Diagram.....	4
3.1 Use Case.....	4
3.2. Use Case Description.....	5
3.2.1. Sign Up.....	5
Sign Up.....	5
3.2.2. Login.....	5
3.2.3. Post Job.....	6
Post Job.....	6
3.2.4. Edit Job.....	6
Edit Job.....	6
3.2.5. Delete Job.....	6
Delete Job.....	6
3.2.6. Reload Page.....	7
Reload Page.....	7
3.2.7. Tutor Mode.....	7
Tutor Mode.....	7
3.2.8. Student/parent Mode.....	7
Student/parent Mode.....	7
3.2.9. Show Profile.....	8
Show Profile.....	8
3.2.10. Set Location.....	8
Set Location.....	8
3.3 Activity Diagram.....	9
3.3.2 Tutor Activity Diagram.....	10
3.4 Sequence Diagram.....	11
3.4.1 Student/Parent Sequence Diagram.....	11
3.4.2 Tutor Sequence Diagram.....	12
CHAPTER 4.....	14
My Project Inclusion.....	14
4.1 Porate Chai.....	14

4.1.1 Overview.....	14
4.1.2 Technologies.....	14
4.1.3 Challenges.....	14
<b>CHAPTER 5.....</b>	<b>15</b>
<b>Professional Development.....</b>	<b>15</b>
5.1 Team Work.....	15
5.2 Tools.....	15
5.3 Framework.....	15
5.4 Professional Learning.....	15
5.4.1 No bullying and faulting.....	16
5.4.2 Work Assigning.....	16
5.4.3 Appreciate victory, don't debilitate for failure.....	16
5.4.4 Planning.....	16
5.4.5 Self Learning Capability.....	17
5.4.6 Attendance and Punctuality.....	17
<b>CHAPTER 6.....</b>	<b>18</b>
<b>My Works.....</b>	<b>18</b>
6.1 User Interface.....	18
6.1.1 Home.....	18
This is the introductory page of this application.....	18
6.1.2 Tutor Profile.....	19
6.1.3 Tutor Profile More.....	20
6.1.4 Add/Edit Institutions.....	21
6.1.5 Image Verification.....	22
6.1.6 Add/Update Classes.....	23
6.1.7 Add/Update Skills.....	24
6.1.8 Add/Update Subjects.....	25
6.1.9 Set/Update Days.....	26
6.1.10 Set/Update Salary.....	27
6.1.11 Google Map.....	28
6.1.12 Map Loaded.....	29
6.1.13 Update Range.....	30
6.1.14 Search Place.....	31
6.1.15 Show Jobs.....	32
6.1.16 Active Job.....	33
<b>CHAPTER 7.....</b>	<b>34</b>
<b>CHAPTER 8.....</b>	<b>35</b>

# Chapter 1

## Background of the Report

### 1.1 Preamble

Internship is the method of on-the-job preparing, which especially useful for understudies with major in specialized courses.

Daffodil International University (DIU) gives that wonderful opportunity to their understudies of having an internship inside their lone ranger program. Internship makes a difference the understudies to link-up their scholastic involvement with industry hones. I have attempted my best to combine the both together.

The company I was sent for internship is Porate Chai. It is one of the up-growing computer program companies in Bangladesh.

### 1.2 Objective

This report is made as it were for scholastic reason and to fulfill the prerequisite for industrial attachment. The report is aiming to reflect my accomplishments, venture inclusions and proficient development amid the assistant period.

### 1.3 Scope

This report gives a knowledge of the involvement that I confronted in my work environment at Porate Chai. As well because it moreover gives a brief portrayal of Porate Chai for understudies who are interested around it for their proficient development.



## 1.4 LIMITATION OF THE REPORT

Whereas gathering data, analyzing and speaking to them Creator have confronted a few restrictions. In any case, in spite of the restrictions creator have attempted difficult to get ready a comprehensive and or maybe curiously report. The in general confinements of the report are said below:

- There were a few limitations in unveiling a few data because it was expected to be private. Subsequently creator might not include those in my report.
- A few of the data that creator got from auxiliary sources were not orchestrated consistently.
- As the extend was built from starch, creator may not see the impediments of the ancient system.
- Since of organizational privacy, creator might not put or disclose a few data within the report.

## CHAPTER 2

# COMPANY OVERVIEW

### 2.1 An Overview of Porate Chai

Porate Chai is a one of the finest tuition media in Bangladesh. Founded in 2017. It's a sister company of GPS Bangla which provides various IT services for world wide clients. They have android application for this service. They wanna provide all platforms application to spread all over the country.

### 2.2 Vision

They are trying to make tuition easy for making life easier for student-tutor.

### 2.3 Location

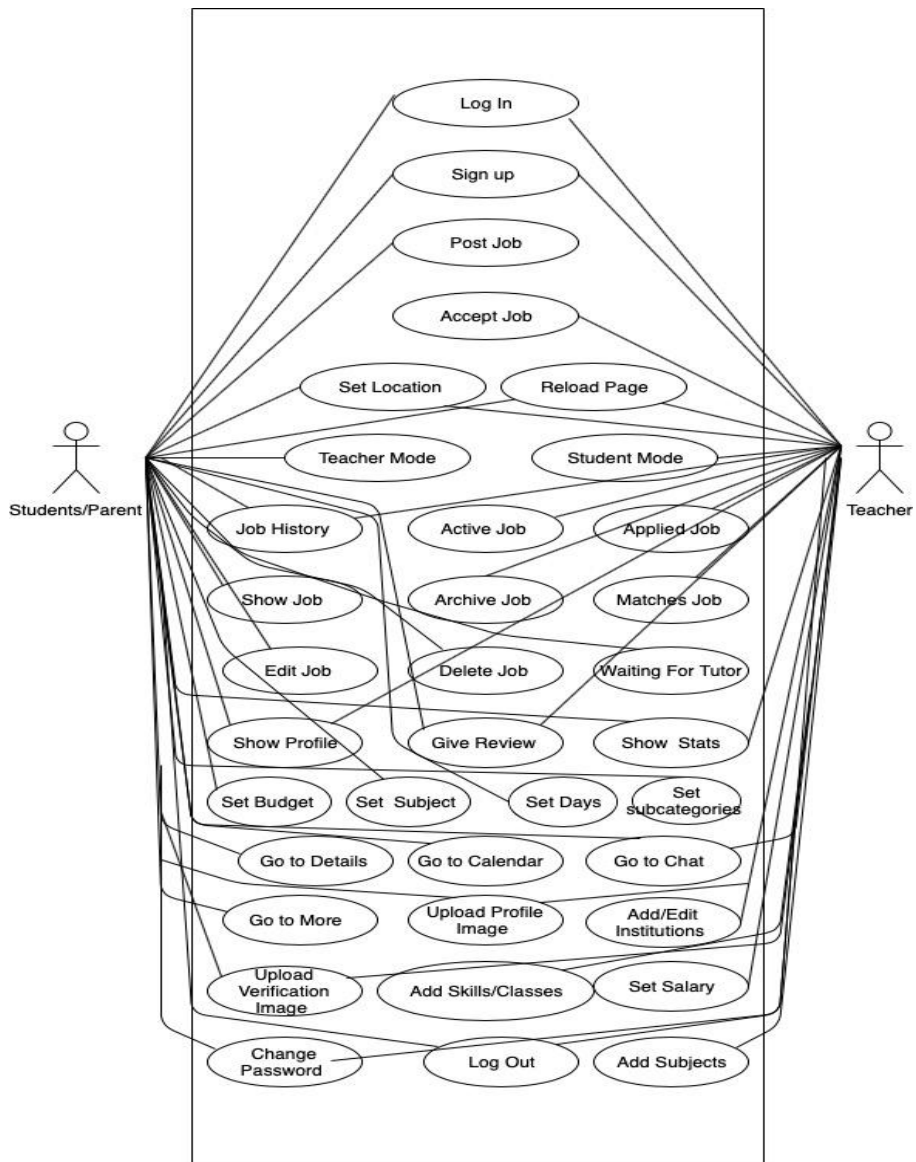
137/B New Eskaton, Dhaka



# CHAPTER 3

## Diagram

### 3.1 Use Case



## 3.2. Use Case Description

### 3.2.1. Sign Up

Student/parent/tutor need to sign up to use the application. After registration a verification code will be sent to phone number of user.

Use Case Name:	Sign Up
Scenario:	To use this application the user must sign up.
Brief Description:	They have to register first. Then they will be able to use the application after logging in to the system.
Actor:	Student/Parent, Tutor
Precondition:	User need to in his/her device.
Post condition:	Users must use the verification code to log in that was sent in phone number.

### 3.2.2. Log In

Students have to log In to the application by providing phone and verification code.

Use Case Name:	Log In
Scenario:	Student/parent/tutor need to log in to enter into the application.
Brief Description:	After signing up and verify through verification code users need to log in to enter into the application.
Actor:	Student/Parent, Tutor
Precondition:	Users have to sign up and verify his or her account.
Post condition:	Users can browse the application.

### 3.2.3. Post Job

Student/parent can post tuition.

Use Case	Post Job
Name:	
Scenario:	Student/parent can post job.
Brief	Student/parent has to select their required
Description:	subject/category etc then post the job..
Actor:	Student/Parent
Precondition:	Student/parent/tutor need to log in to enter into the application.
Post condition:	Users can see posted job.

### 3.2.4. Edit Job

Student/parent can edit job.

Use Case	Edit Job
Name:	
Scenario:	Student/parent can edit job.
Brief	Student/parent can update their required
Description:	subject/category etc then press update job button.
Actor:	Student/Parent
Precondition:	Student/parent/tutor need to have posted job.
Post condition:	Users can see updated job.

### 3.2.5. Delete Job

Student/parent can delete job.

Use Case	Delete Job
Name:	
Scenario:	Student/parent can delete job.
Brief	Student/parent can delete job by pressing delete job
Description:	button.
Actor:	Student/Parent
Precondition:	Student/parent/tutor need to have posted job.
Post condition:	Users can see all remaining jobs.

### 3.2.6. Reload Page

Student/parent/tutor can reload visited page.

Use Case Name:	Reload Page
Scenario:	Student/parent/tutor can reload page.
Brief Description:	If there is something not appearing or updated any data, user can reload page by pressing reload button.
Actor:	Student/Parent, Tutor
Precondition:	Student/parent/tutor need to log in.
Post condition:	Users can browse application.

### 3.2.7. Tutor Mode

Student/parent can turn on tutor mode.

Use Case Name:	Tutor Mode
Scenario:	Student/parent can turn on teacher mode.
Brief Description:	Both teacher or student can use same application with same user profile. If he wanna switch to tutor mode, he can.
Actor:	Student/Parent
Precondition:	Student/parent mode should be on.
Post condition:	User can see tutor's features.

### 3.2.8. Student/parent Mode

Tutor can turn on Student/parent mode.

Use Case Name:	Student/parent Mode
Scenario:	Tutor can turn on student/parent mode.
Brief Description:	Both teacher or student can use same application with same user profile. If he wanna switch to student/parent mode, he can.
Actor:	Tutor
Precondition:	Tutor mode should be on.
Post condition:	User can see student/parent's features.

### 3.2.9. Show Profile

Student/parent/tutor can see their profile.

Use Case Name:	Show Profile
Scenario:	Student/parent/tutor can see their profile.
Brief Description:	If user need to see his data, he has to go profile by pressing profile button.
Actor:	Student/Parent, Tutor
Precondition:	Student/parent/tutor need to log in.
Post condition:	Users can see his profile.

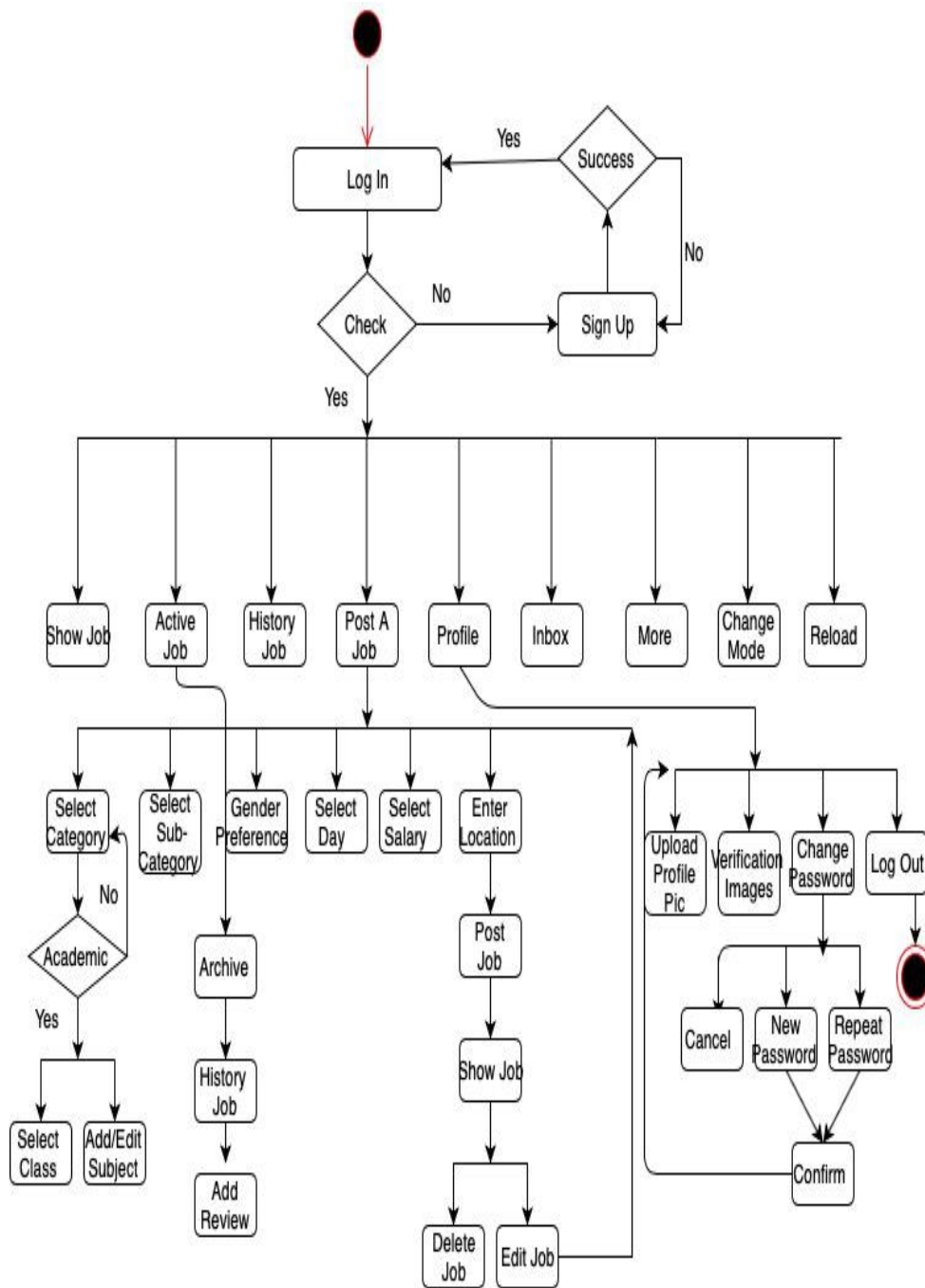
### 3.2.10. Set Location

Student/parent/tutor can set location.

Use Case Name:	Set Location
Scenario:	Student/parent/tutor can set location by using google map.
Brief Description:	User has to go profile press location button & then set location from the map.
Actor:	Student/Parent, Tutor
Precondition:	Student/parent/tutor need to go profile.
Post condition:	Users can see his updated place in profile.

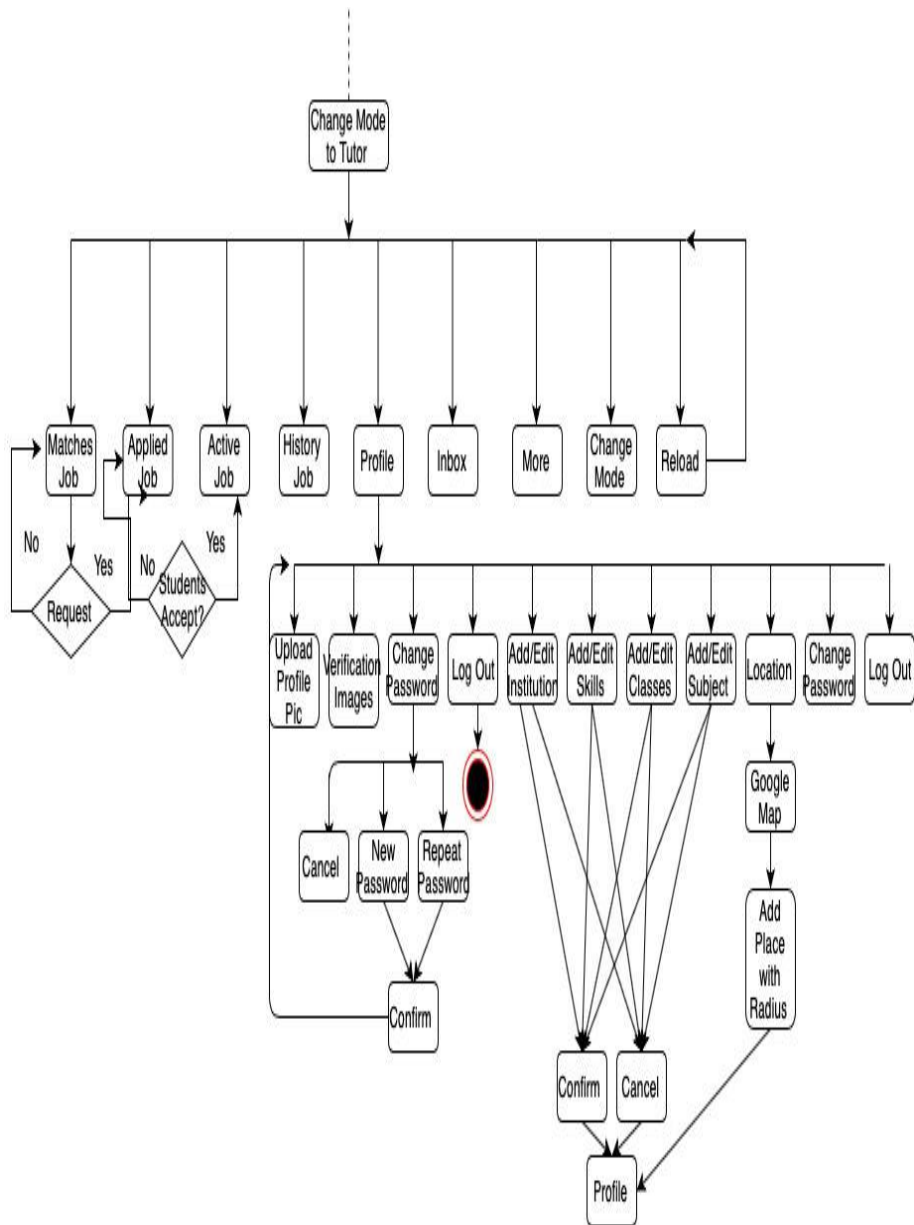
### 3.3 Activity Diagram

#### 3.3.1 Student/Parent Activity Diagram



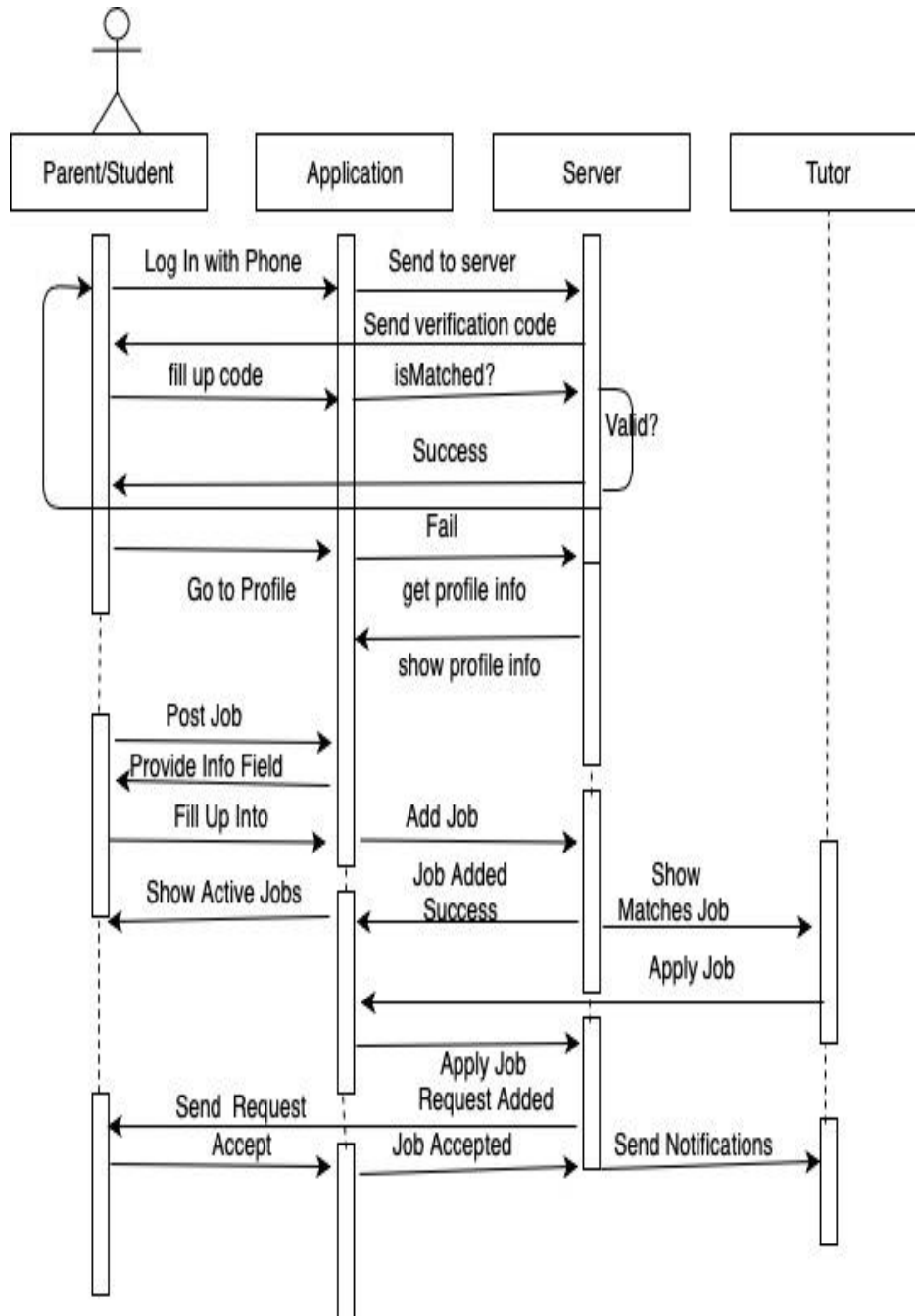


### 3.3.2 Tutor Activity Diagram

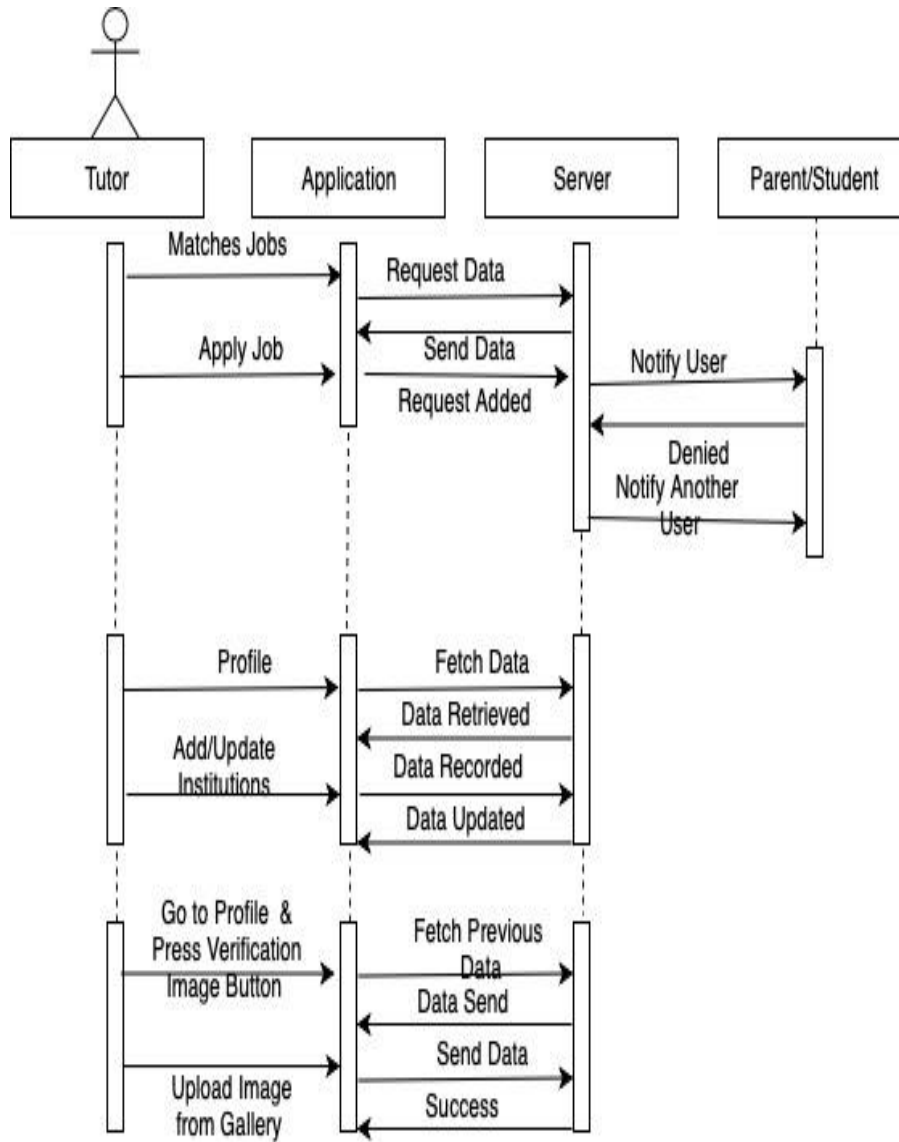


### 3.4 Sequence Diagram

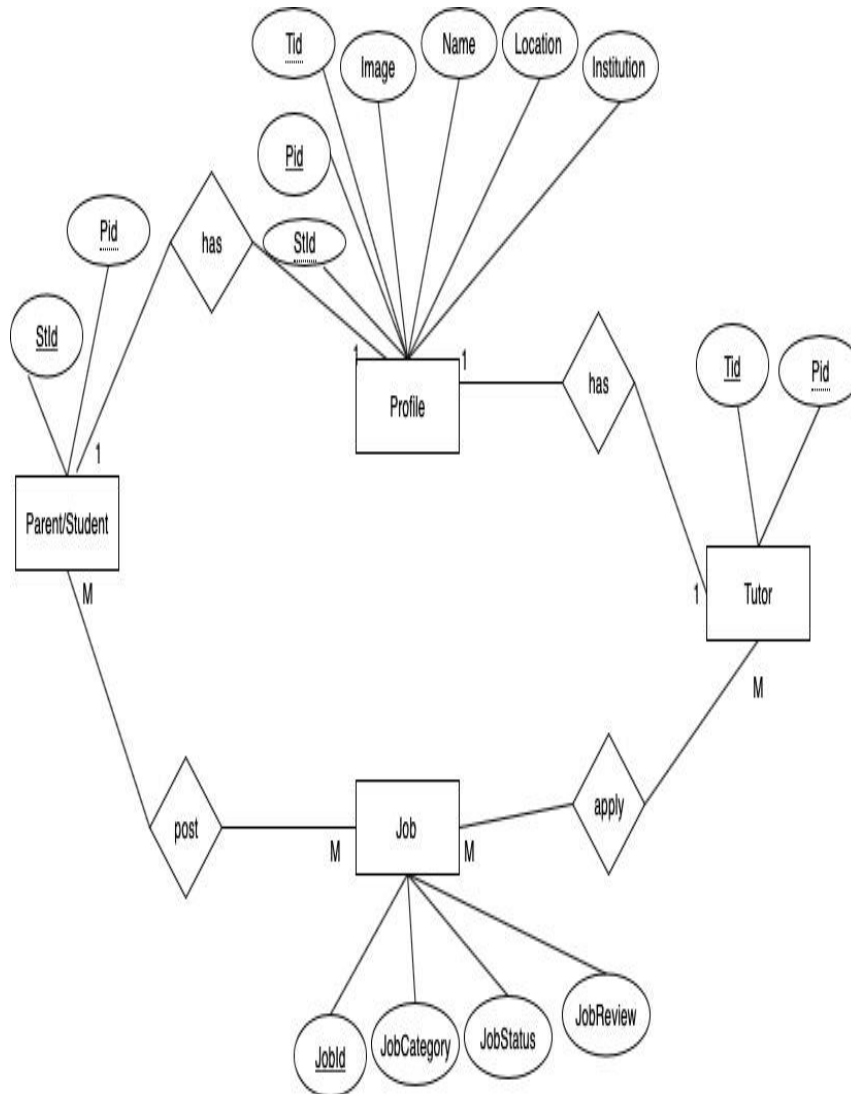
#### 3.4.1 Student/Parent Sequence Diagram



### 3.4.2 Tutor Sequence Diagram



### 3.5 ER Diagram



# CHAPTER 4

## My Project Inclusion

### 4.1 Porate Chai

It's a tuition media platform where student-tutor get each other with their desire requirements.

#### 4.1.1 Overview

It's a pilot project of GPS Bangla. When I joined there their android project was ready. So, I had to develop their iOS application with my team mate.

#### 4.1.2 Technologies

I was asked to learn several technologies such as:

- Swift
- Cocoapods
- Core Data
- Understanding JSON
- Google Map API
- Github/GitLab

#### 4.1.3 Challenges

The most challenge for me was that I fair joined Porate Chai and had small thought around industry ventures. And this extend was nearly approximately to begin for iOS which I required to get it in a brief time all by myself. As I was doled out to construct couple of highlights, I required to have clear information of those things. It was a genuine challenge for me to actualize those.

# CHAPTER 5

## Professional Development

### 5.1 Team Work

Our team has several platform developers which gave me full professional environment.

### 5.2 Tools

Multiple tools were used to develop features. The tools I learnt:

- Xcode
- Postman
- Lift Lite
- Robo 3T
- Simulator

### 5.3 Framework

In this project, I learnt MVC. The Model-View-Controller (MVC) is an engineering design that isolates an application into three fundamental consistent components: the model, the view, and the controller. Each of these components are built to handle particular improvement perspectives of an application. MVC is one of the foremost regularly utilized industry-standard web advancement system to form adaptable and extensible ventures.

### 5.4 Professional Learning

In spite of the fact that specialized learning is vital, proficient learning is the sole reason of an internship. Porate Chai is a great put to memorize professionalism.

#### **5.4.1 No bullying and faulting**

Computer program is continuously a group work. And when there's a group work, misconception is very usual. This is often genuine for Porate Chai as well. In any case, I have never seen group pioneers and extend directors to bully individuals working beneath their supervision. By and by, I have made a part of botches final in five months. But my extend director had never been unforgiving with me. This hone is truly compelling to keep the work environment solid. Faulting others for their botches does not fathom the issue. It as it were makes the circumstance and the relationship between colleagues more regrettable.

#### **5.4.2 Work Assigning**

At Porate Chai, there's no one to require orders like, “do this work”, and “do that work”. Everybody is doled out to a specific work and he does his work in his way. At time of meet-up, everybody offers their progress to others. All the ventures are wiped out this way.

#### **5.4.3 Appreciate victory, don't debilitate for failure**

Appreciation for victory could be a genuine slant. The group I have been doled out to has instructed me the esteem of appreciation. Here, the individuals appreciate each other on their fruitful commitment to the company additionally on their victory in a few other areas.

#### **5.4.4 Planning**

Some time recently beginning an assignment I had continuously arranged that how ought to I approach towards it. In spite of the fact that those plans as it were included me, at slightest I can say that I am habituated with arranging.

#### **5.4.5 Self Learning Capability**

Every time you can't get help from others. You've to have enough courage to learn individually which increases the capability of you. In this case, I have gained enough confidence to solve any problem in a single hand.

#### **5.4.6 Attendance and Punctuality**

Going to office or off to office trained me on time management which will help me a lot to do well in future.



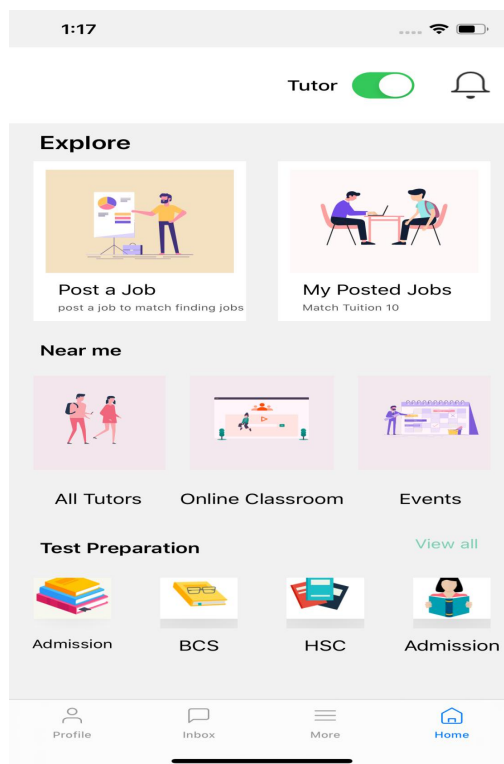
# CHAPTER 6

## My Works

### 6.1 User Interface

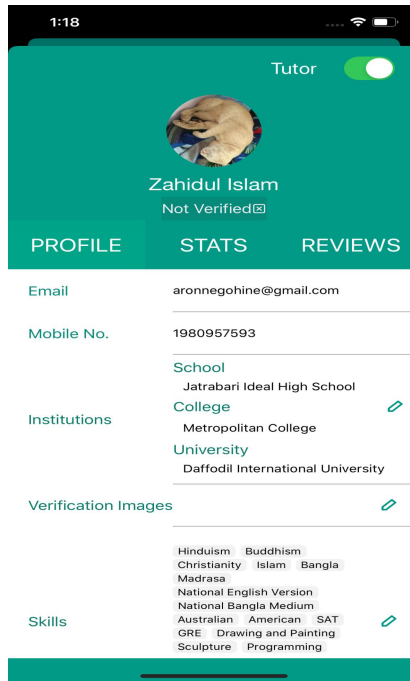
#### 6.1.1 Home

This is the introductory page of this application.



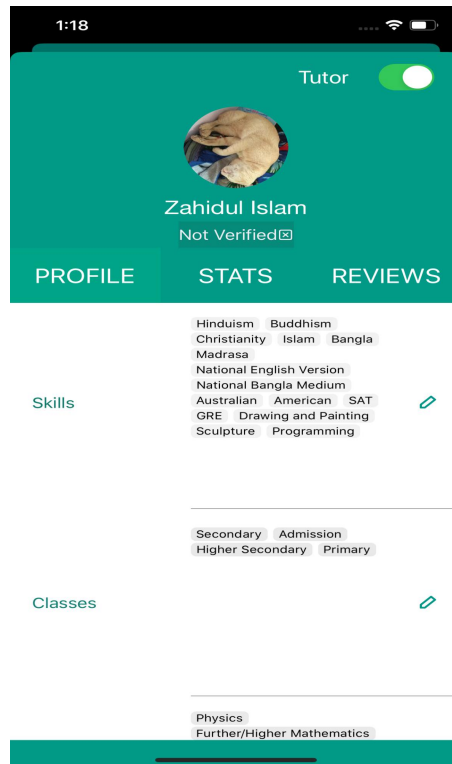
## 6.1.2 Tutor Profile

Tutor can see his profile like this.



### 6.1.3 Tutor Profile More

There are more remaining which is not shown in previous page.



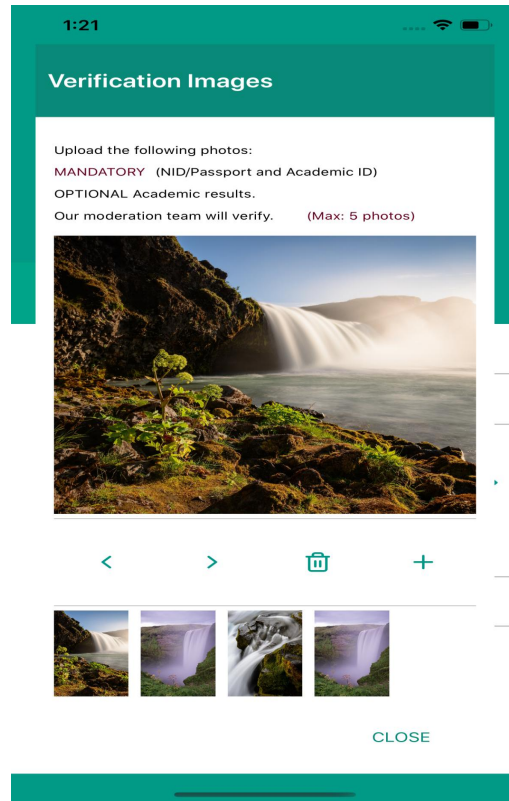
## 6.1.4 Add/Edit Institutions

He can easily add/update his educational institutions.

The screenshot shows a mobile application interface with a teal header. At the top left, the time is 1:21. At the top right, there is a 'Tutor' toggle switch which is turned on. Below the header is a section titled 'Institutions'. Under this section, there are three input fields: 'School' containing 'Jatrabari Ideal High School', 'College' containing 'Metropolitan College', and 'University' containing 'Daffodil International University'. Below these fields are two buttons: 'CANCEL' and 'CONFIRM'. At the bottom of the screen, there is a 'Skills' section with a list of skills: Hinduism, Buddhism, Christianity, Islam, Bangla, Madrasa, National English Version, National Bangla Medium, Australian, American, SAT, GRE, Drawing and Painting, Sculpture, and Programming. A small edit icon is visible to the right of the skills list.

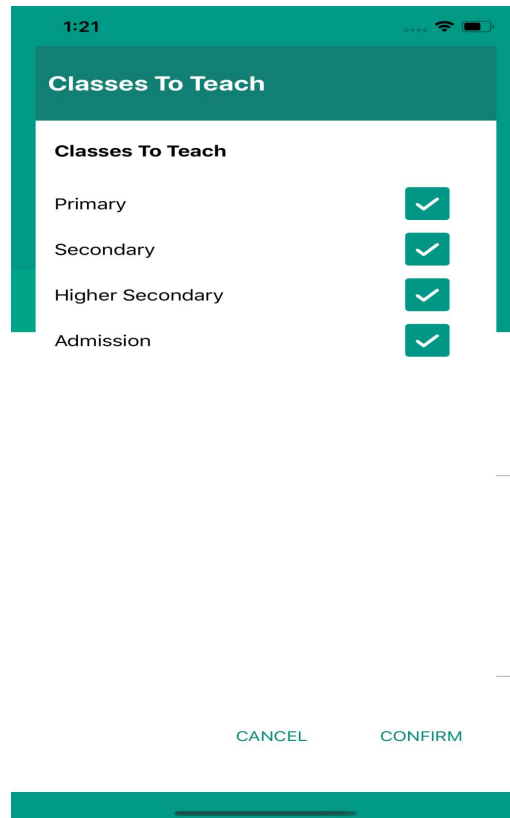
## 6.1.5 Image Verification

In this page, he'll put his proof what he given in profile section.



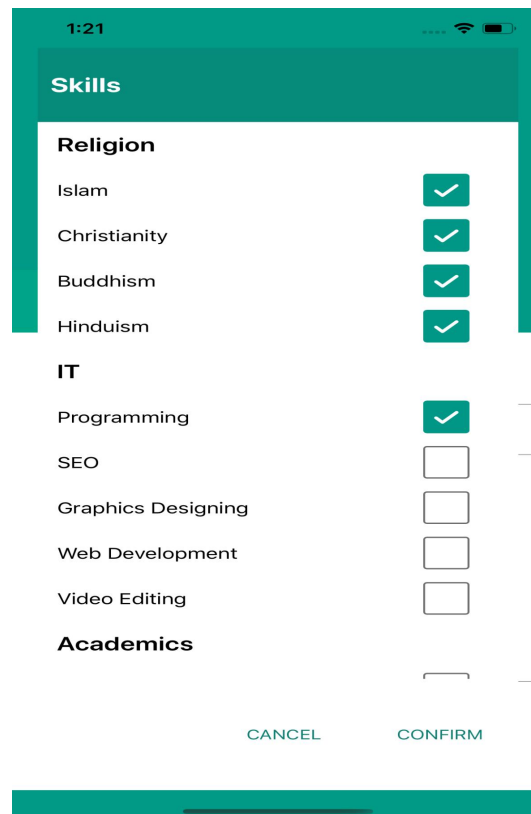
## 6.1.6 Add/Update Classes

He may easily add/update his desired classes.



## 6.1.7 Add/Update Skills

He may effectively add/update his wanted skills.



The screenshot shows a mobile application interface titled "Skills". The screen is divided into three main categories: Religion, IT, and Academics. Each category has a list of skills with corresponding checkboxes. The "Religion" category includes Islam, Christianity, Buddhism, and Hinduism, all of which are checked. The "IT" category includes Programming (checked), SEO, Graphics Designing, Web Development, and Video Editing, all of which are unchecked. The "Academics" category is currently empty. At the bottom of the screen, there are two buttons: "CANCEL" and "CONFIRM".

Category	Skill	Selected
Religion	Islam	✓
	Christianity	✓
	Buddhism	✓
	Hinduism	✓
IT	Programming	✓
	SEO	<input type="checkbox"/>
	Graphics Designing	<input type="checkbox"/>
	Web Development	<input type="checkbox"/>
	Video Editing	<input type="checkbox"/>
Academics		

## 6.1.8 Add/Update Subjects

This is for his subject portion.

1:22

### Subjects

**Subjects**

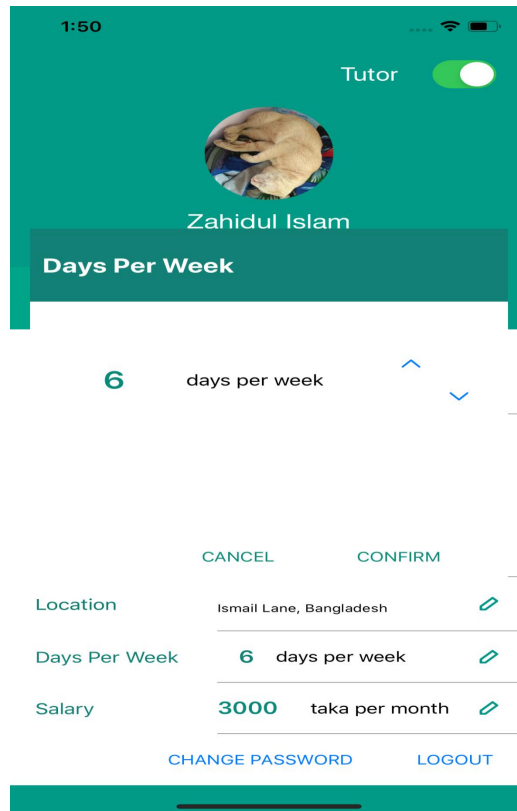
English	<input type="checkbox"/>
English Literature	<input type="checkbox"/>
Bangla	<input type="checkbox"/>
General Science	<input checked="" type="checkbox"/>
Mathematics	<input checked="" type="checkbox"/>
Further/Higher Mathematics	<input checked="" type="checkbox"/>
Physics	<input checked="" type="checkbox"/>
Chemistry	<input type="checkbox"/>
Biology	<input type="checkbox"/>
Economics	<input type="checkbox"/>

CANCEL CONFIRM



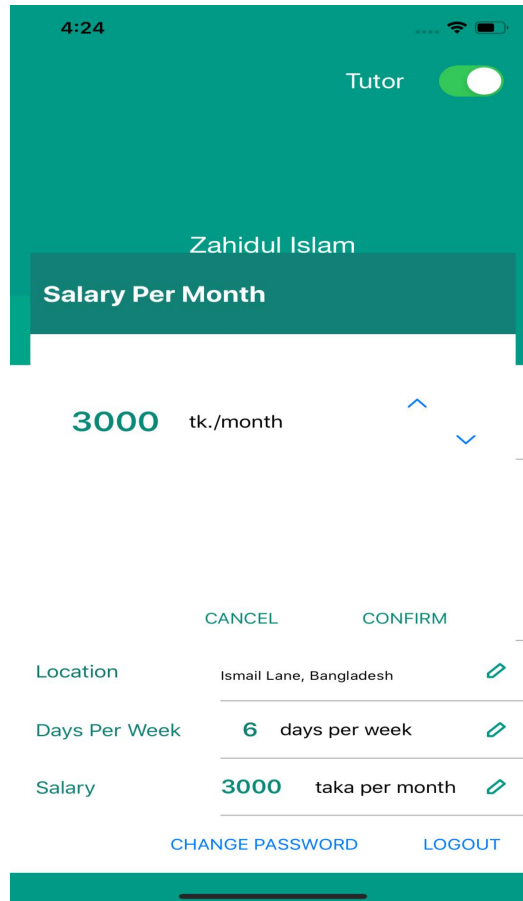
## 6.1.9 Set/Update Days

He'll put his desire days what he wants.



## 6.1.10 Set/Update Salary

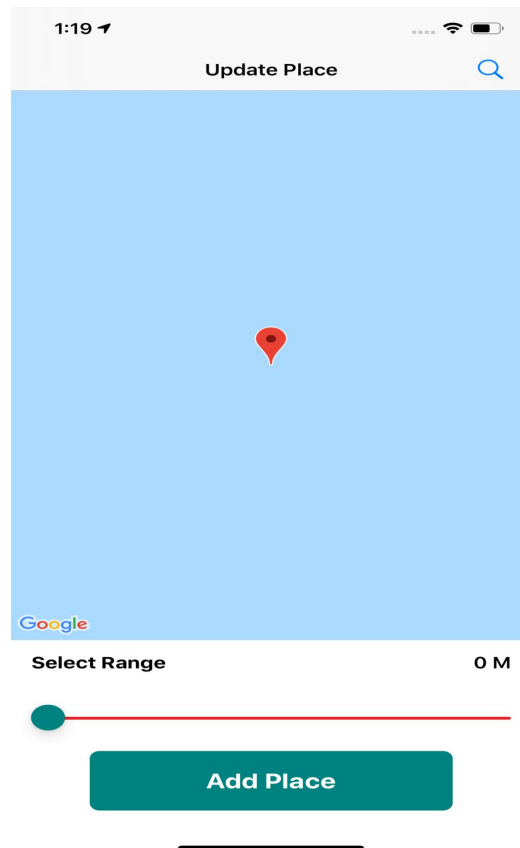
He'll set his preferred salary what he likes.



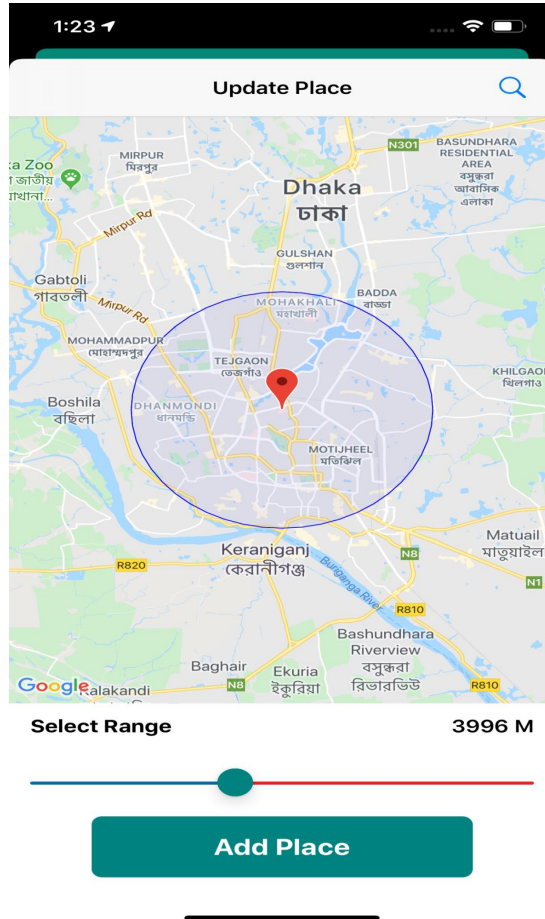
The screenshot shows a mobile application interface with a teal background. At the top left, the time is 4:24. At the top right, there are icons for signal strength, Wi-Fi, and battery. Below the status bar, the word "Tutor" is displayed next to a green toggle switch that is turned on. The name "Zahidul Islam" is centered below the toggle. A dark teal box contains the text "Salary Per Month". Below this, the value "3000 tk./month" is shown in large teal font, with a blue upward arrow to its right and a blue downward arrow below it. At the bottom of the screen, there are two buttons: "CANCEL" and "CONFIRM". Below these buttons, there are three rows of information, each with an edit icon (a teal pencil) to its right: "Location" with the value "Ismail Lane, Bangladesh", "Days Per Week" with the value "6 days per week", and "Salary" with the value "3000 taka per month". At the very bottom, there are two more buttons: "CHANGE PASSWORD" and "LOGOUT".

## 6.1.11 Google Map

This is where he can drag the marker & put his desired places.

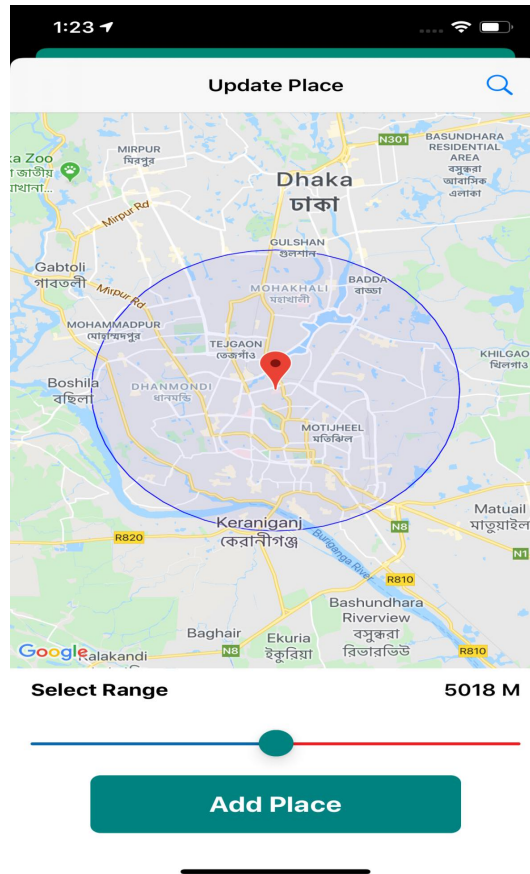


## 6.1.12 Map Loaded



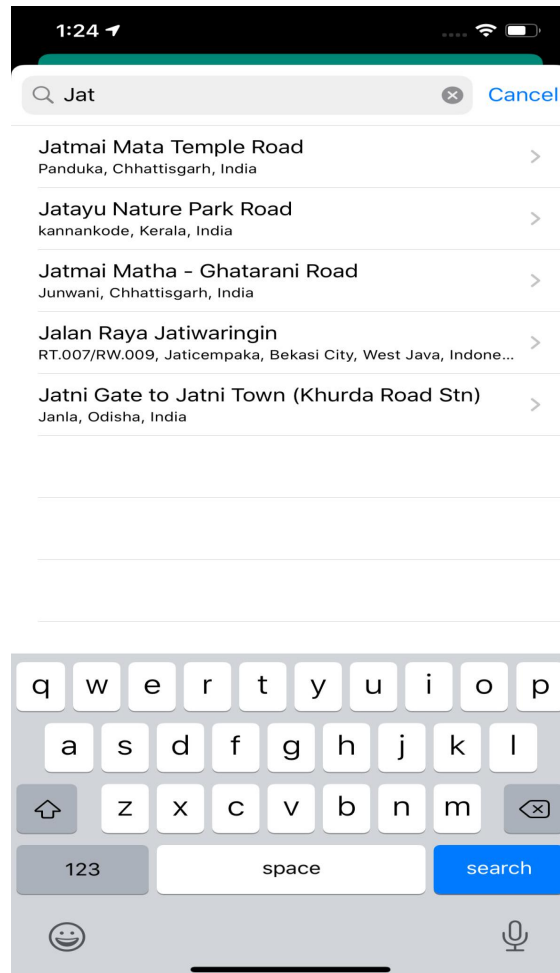
### 6.1.13 Update Range

He may also set his range by sliding slider.



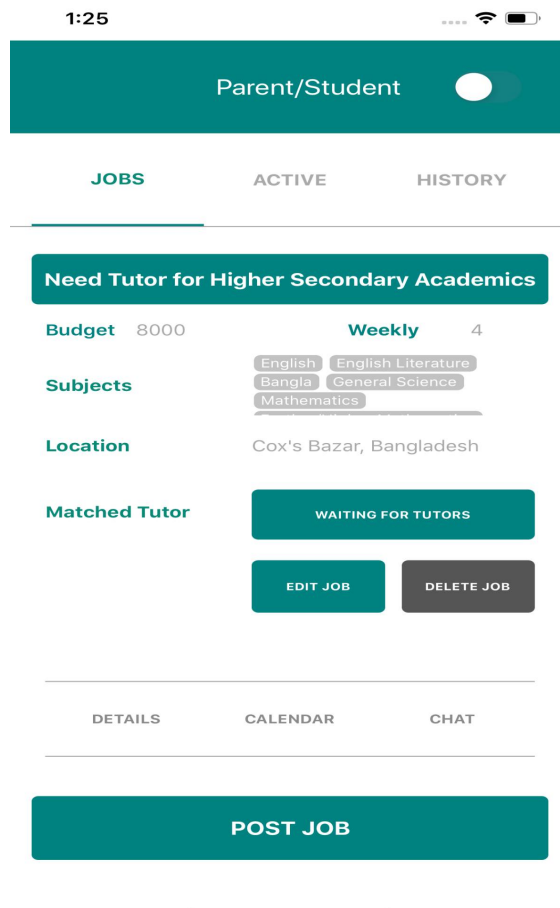
## 6.1.14 Search Place

He also can search place what he's looking for.



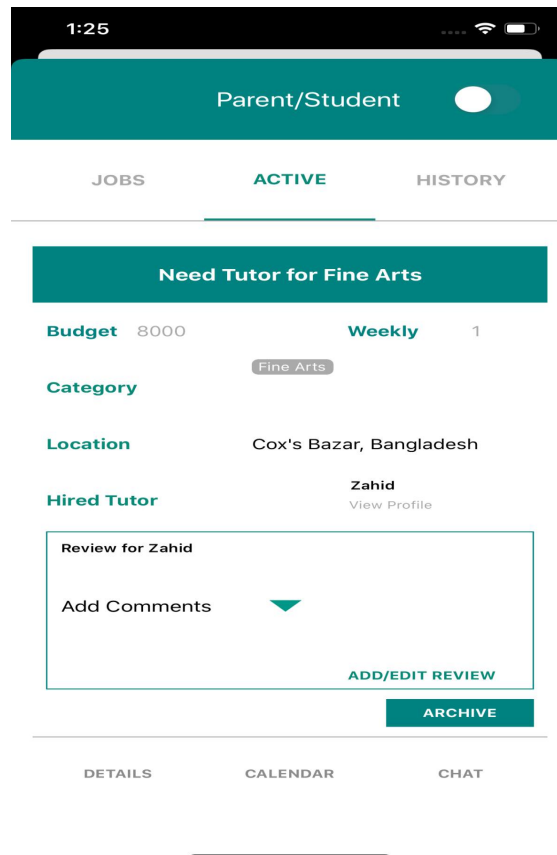
### 6.1.15 Show Jobs

Parent/student can see this when he is in this student mode.



## 6.1.16 Active Job

He may observe which job is currently going on.





## CHAPTER 7

### Conclusion

The internship program made a difference me to pick up imperative information on program industry, their culture, work environment and all around software development.

Participating in week by week group assembly with CTO, Extend director and other group individuals and examining on the dangers of the ventures made a difference me achieve the confidence to create a never grant up demeanor. At the same time it made a difference me learning the computer program life cycle utilized in computer program industry and motivated me to be striver, dependable and sure.

The internship program has expanded my group work capabilities as well as regard to the group mate's thoughts and proposals. Group dialogs like brain raging sessions made a difference me recognize and illuminate various issue issues which would have been inconceivable to unravel something else. I would like to communicate my much appreciated to Software Engineering Department, DIU for giving me an opportunity to pick up thought of the competitive environment within the proficient field. It has certainly lifted my program advancement abilities in terms of plan and coding. I presently see forward to confronting the up and coming challenges of the world.

# CHAPTER 8

## References

- <https://www.poratechai.com>
- <https://www.facebook.com/poratechai/>
- [https://www.tutorialspoint.com/mvc\\_framework/mvc\\_framework\\_introduction.htm](https://www.tutorialspoint.com/mvc_framework/mvc_framework_introduction.htm)
- <https://www.facebook.com/gpsbangla/>
- <https://www.draw.io>
- <https://www.academia.edu/>