

Find My Tutor

(Android Application)

Final Year Project

Session 2016-2020

A project submitted in partial fulfillment of the degree of

BS in Computer Science



Department of Computer Science
Faculty of Computer Science & Information Technology
The Superior College, Lahore

Spring 2020

Type (Nature of project)	☒ Development ☐ Research ☐ R&D			
Area of specialization	FIND MY TUTOR (Mobile Application)			
FYP ID	FYP2-GROUP-006			
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Plagiarism Free Certificate

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Designation: Lecturer Designation: Associate Professor

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Project Report

[FIND MY TUTOR]

Change Record

Author(s)	Version	Date	Notes	Supervisor's Signature
	1.0		<Original Draft>	
			<Changes Based on Feedback from Supervisor>	
			<Changes Based on Feedback From Faculty>	
			<Added Project Plan>	
			<Changes Based on Feedback from Supervisor>	

APPROVAL

PROJECT SUPERVISOR

Comments: _____

Name: _____

Date: _____ Signature: _____

PROJECT MANAGER

Comments: _____

Date: _____ Signature: _____

HEAD OF THE DEPARTMENT

Comments: _____

Date: _____ Signature: _____

Dedication

This work is dedicated to my Parents who have been a great source of inspiration and support. This project is also dedicated Miss Amna Anjum who encourages us to build our motivation.

Acknowledgements

All gestures of recognition are to Almighty Allah, who gave us the quality, learning and bravery to finish this errand. We might want to pay huge amounts of thanks and offer my regards to our Supervisor Miss Amna Anjum for his valuable direction, advises and support all through the learning procedure that he gave me a helpful course to finish our venture.

Executive Summary

Often, it can be very tricky to know where to look and find a Tutor if you don't have any connections. Usually, when a student wants to search a tutor, he/she has to search through newspaper advertisements or asks any friend or relative who can recommend a highly qualified and expert tutor with affordable fees.

This project aims at developing an crossed platform with the aim of making it easier for parents and students to instantly find and connect with thousands of professional and certified tutors at one place. This application will provide students a platform on their smart phones for finding the experts and tutors of their desired field/subject according to their qualification and experience.

The proposed mobile application will provide an efficient search engine which will help students to search using different filters (subject, location, qualification etc.). Based on the applied filters, the search engine will find the most relevant data and will display it to the user. Search by Location feature will also be integrated in the application so that the users can search for the tutors in their surrounding locations as well as the tutor can know from where the services are being requested. Finally, the application will allow the users to rate and give their reviews about any tutor and the services they provide which will make this application more useful for the users.

There will be two users of the Application.

1. Student
2. Tutor

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Chapter 1

Introduction

Chapter 1: Introduction

These days the most important thing in our life is education. We all need some extra care in education. Or in other perspective people who are willing to be a tutor needs good tuition. So, for both of them one great system is needed. Now there are some Facebook group where you can find some tuition. But in the end, it's not so helpful. So, I propose to make this tutor finder app, where tutor and students can easily find what they are wishing for.

1.1. Background

Today, when mention about tuition classes, first came to our mind is the words meaning paying some money for acquire tutors to get some instruction or training on certain subjects at nearby tuition center classes or private tuition that required tutors carry out at our own house. Tuition is more frequent occur on primary and secondary school students in Pakistan according to the survey done. Dolly Panchal, Mili Sanghavi, ShikhaDevi Pandey and Elizabeth George[2016] Android application for finding tutors using a data mining technique. The increasing trend of private or group tuitions has made it more difficult for a parent to find a perfect tutor for his/her child. The process of finding a tutor is time consuming. The rise in educational standards has led to the need for additional coaching along with basic schooling. An Android application for finding tutors can help a parent find tutors without consulting any third party. The application encourages parents to find tutors and tutors to find prospective students in their nearby vicinities. The tutor application also considers the fact that students need personal attention and guidance in studies.

1.2. Motivations and Challenges

Education is a vast field there are a lot of feature in it. The motivation for doing this project is growing in the field of population and unemployment in our country. This project is also give us a self-satisfaction. A lot of content available on internet related to this project. Some of research paper

also found on this topic but the main challenge is to gather all the useful information and to implement it.

1.3. Goals and Objectives

The main objective of this project is to develop a mobile application platform for the parents and tutors to interact, hire and learning among each other. This application allow the all tutors register and gather within network to form a community that allow easier access by parents at one stop searching for new tutors. Besides, the forum will act as a student, parent and tutor gathering community to share information, thought and etc.

This project objectives listed as follow:

- Enhance the quality of learning and teaching.
- Meet the learning style or needs of students.
- Improve the efficiency and effectiveness.
- Improve user-accessibility and time flexibility to engage learners in the learning process.

1.4. Literature Review/Existing Solutions

This project mainly is to solve the problems mention in the problem statement that current tutor matching applications found are not solve the problems well or completely. For example, like My Private tutor application that only promote lone learner in which situation that a student are completely isolated from the schoolmate and parent's involvement that cannot promote understanding of knowledge through further debate between schoolmate. Therefore, this project will develop a better platform that allow multiple kind of tuition type services offer from tutors. The services will extended from existing private home tutoring class to private home classroom, public classroom and 1 to 1 tutoring class.

1.5. Gap Analysis

Education is a very field so a lot of students graduate every year but most of them are not have a good job and face many difficulties to find their first job because they don't have right guidance or a platform where they find their first job at the same time students also face difficulties to find new home tutor for them the parents give money to third persons to find a tutor for their children and then that person also take money from tutor. So a big need for this type of application where on a single platform both the tutor and students or parents find what they need. In Pakistan not available this type of any application. So it's most point for growing.

1.6. Proposed Solution

- To develop a platform for student to find tutor outside the class based on subject they need more attention.
- In Find tutor app tutors and students can easily find what they are wishing for.
- In Find Tutor can focus more on student and student will comfortable because it's their choice to choose their tutor using this mobile application.

1.7. Project Plan

We are planning the project as follow:

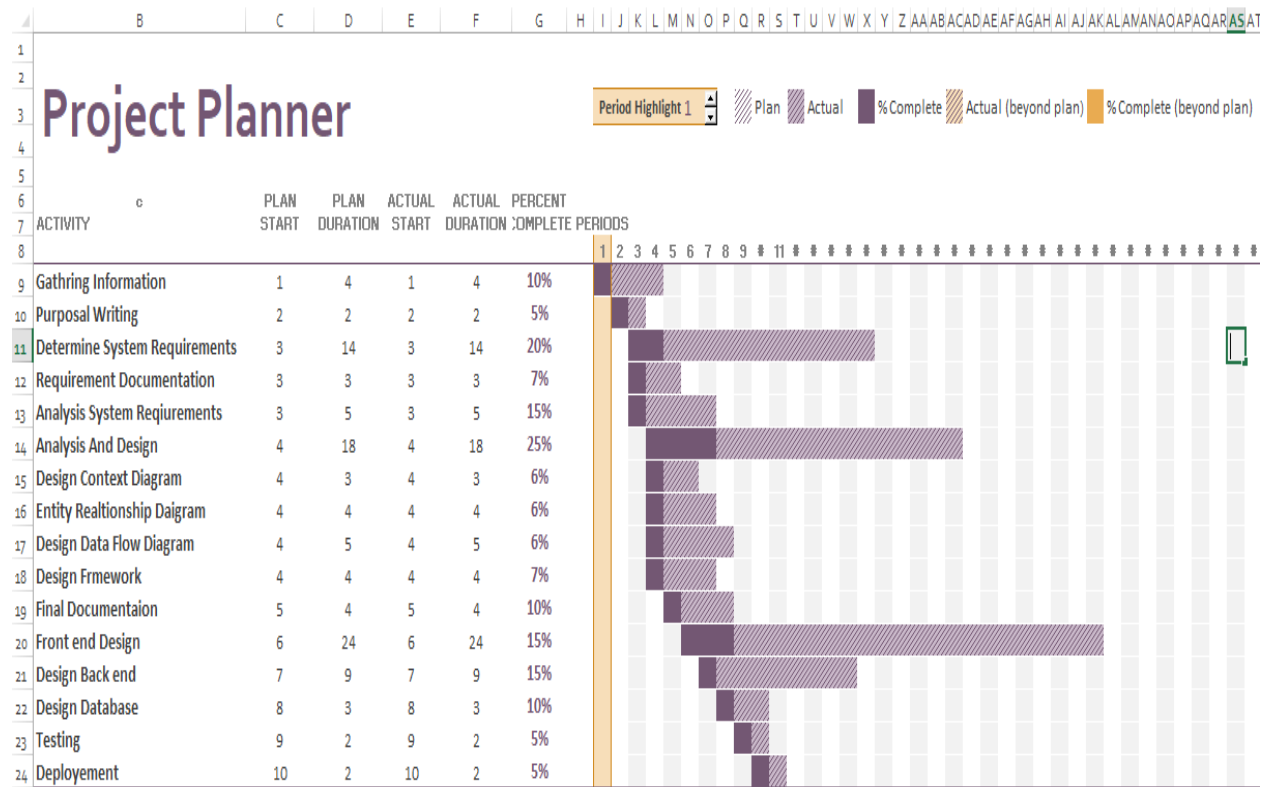
1.7.1. Work Breakdown Structure

Project Start		19/08/2019			
Level	WBS	Task Description	Assigned To	Start	End
1	1	Initial Phase			
2	1.1	Coordinator Briefing	Zaman Aziz		
2	1.2	Topic Descission	Group members	28/08/2019	1/9/2019
3	1.2.1	Gather Information	Zahid,Hassan	2/9/2019	2/9/2019
3	1.2.2	proposal Writing	Bilal Ahmed	3/9/2019	4/9/2019
1	2	Requirement phase			
2	2.1	Determine System Requirements	Hassan babar	6/9/2019	12/9/2019
3	2.1.1	Requirements Documantation	Bilal Ahmed	13/09/2019	16/09/2019
3	2.1.2	Analysis System requirements	Zahid Mahmood	17/09/2019	20/09/2019
1	3	Analysis & Design			
2	3.1	Design Context Diagram	Hassan babar	22/09/2019	25/09/2019
3	3.1.1	Entity Relationship Diagram	Zahid Mahmood	26/09/2019	30/09/2019
4	3.1.1.1	Design Data Flow Diagram	Bilal Ahmed	1/10/2019	5/10/2019
2	3.2	Design Framework	Group members	6/10/2019	10/10/2019
1	4	Final Documentation	Group members	11/10/2019	15/10/2019
1	5	Review Supervisor	Amna Anjum	19/10/2019	20/10/2019
1	6	Front end Design	Group members	21/10/2019	10/12/2019
2	6.1	Review Supervisor	Amna Anjum	12/12/2019	13/12/2019
1	7	FYP1 Presentation		14/12/2019	17/12/2019
1	8	Design Back end	Group members	18/12/2019	21/12/2019
1	9	Design Database	Group members	22/12/2019	24/12/2019
1	10	Testing	Group members	25/12/2019	25/12/2019
1	11	Final Review of Supervisor	Amna Anjum	26/12/2019	26/12/2019
1	12	FYP2 Presentation		27/12/2019	29/12/2019

1.7.2. Roles & Responsibility Matrix

Bilal Ahmad (Documentation and coding)	Zahid Mahmood (Documentation and coding)	Hassan Babar (Marketing Manager)
Responsibilities: • Use cases • Use cases Model • Use case diagram • Introduction • Software requirement specification	Responsibilities: • Introduction • System and Design • Use case Analysis • DFDS • System Architecture • Coding portion	Responsibilities: • Design • Marketing Material • Visiting card • Standee • Poster

1.7.3. Gantt Chart



Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.1. Introduction

2.1.1. Purpose

The purpose of this document is to give a detailed description of the requirements for the “Find My Tutor” Application. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints, interface and interactions with other external applications.

2.1.2. Document Conventions

Acronyms and Abbreviations:

FMT: Find My Tutor

SRS: Software Requirements Specification

UC: Use Case

SDD: Software Design Description

DB: Database

ERD: Entity relation Diagram.

When writing the SRS document for FMT the following terminologies are used:

To make the document more effective and readable we used Calibri font style and font size and headings are bold and highlighted with underline.

2.1.3. Intended Audience and Reading Suggestions

This document is written for the researchers, project managers, programmers, designers, developers, testers, documentation writers, users involved in the FMT like different Tutors and student. This document consists of the various steps and procedures for the application update initiated with an open discussion with the Project manager. Following section describes the rest of the product function. Scope and other overall description. Finally, with the references.

2.1.4. Product Scope

The product will concentrate on processed finding tutor in your nearest location.

Tutor:

Tutor only can access the system after the administrator has approved them into the system and provided the id and password to login. After succeed logging in, the system allows to update their profile, schedule and subject to teach. Then tutor can approve booking from student.

Student:

Student can view tutor, search for the tutor and update their personal details into the system.

2.1.5. References

MANDAL, B. (2016). TUTOR FINDER APP (*Doctoral dissertation, University of Technology*).

2.2. Overall Description**2.2.1. Product Perspective**

From Find My Tutor application students and tutors can interact, hire and learning among each other. This application allow the all tutors register and gather within network to form a community that allow easier access by parents at one stop searching for new tutors. Besides, the forum will act as a student, parent and tutor gathering community to share information, thought and etc.

2.2.2. Product Functions

Register: User can register into the System

Login: User can login into the System

Update: user can update their profile.

Delete: Admin can delete user account.

Search: User can search each other.

Live Location: User can view any other user live location.

SMS: User can send sms to other users.

Chat: User can live chat within the application.

Complaint: User can complaint to admin or report any account.

View: User can view his own and other user information.

Notification: User receive a notification when a new chat receiving.

Logout: User can logout.

2.2.3. User Classes and Characteristics

There are three types of users that interact with the system: Students, Tutors and administrators. Each of these three types of users has different use of the system so each of them has their own requirements.

The Student can only use the application to find a Tutor. This means that the students have to be able to search for tutors, choose a Tutor from that search and then send request to Tutor.

The Tutor will be able to create profile or put their resume and accept and reject the request from students.

The administrators also only interact with the FMT. They are managing the overall system so there is no incorrect information within it. The administrator can manage the information for both the Students and Tutors. Admin will also approved Tutor then their account will be active.

2.2.4. Operating Environment

FMT application will operate on the latest versions of Android (Pie), and also Supportable to Old version of android. Users will be able to use the application using laptop computers, and mobile devices

2.2.5. Design and Implementation Constraints

The mobile application is constrained by the system interface to the GPS navigation system within the mobile phone. Since there are multiple system and multiple GPS manufacturers, the interface will most likely not be the same for every one of them. Also, there may be a difference between what navigation features each of them provide.

The Internet connection is also a constraint for the application. Since the application fetches data from the database over the Internet, it is crucial that there is an Internet connection for the application to function.

FMT application will be constrained by the capacity of the database. Since the database is shared between Tutors, Students and Administrator it may be forced to queue incoming requests and therefor increase the time it takes to fetch data.

2.2.6. User Documentation

User guide template is prepared (UDG.doc). User manuals, frequently asked questions and feedback via e-mail will be provided by the system.

2.2.7. Assumptions and Dependencies

One assumption about the product is that it will always be used on mobile phones that have enough performance. If the phone does not have enough hardware resources available for the application, for example the users might have allocated them with other applications, there may be scenarios where the application does not work as intended or even at all.

Another assumption is that the GPS components in all phones work in the same way. If the phones have different interfaces to the GPS, the application need to be specifically adjusted to each interface and that would mean the integration with the GPS would have different requirements than what is stated in this specification.

2.3. External Interface Requirements

This section provides a detailed description of all inputs into and outputs from the system. It also gives a description of the hardware, software and communication interfaces and provides basic prototypes of the user interface.

2.3.1. User Interfaces

- Inputs will be entered via standard mobile controls such as combo box, check box, text box, calendar, etc.
- Disclosure text should be included in every page.
- Navigation and acceptance will be handled with buttons.

2.3.2. Hardware Interfaces

Since neither the mobile application have any designated hardware, it does not have any direct hardware interfaces. Mobile App will be used to access to the platform.

2.3.3. Software Interfaces

The FMT Application communicates with the GPS application in order to get geographical information where the user is located and the visual representation of it, and with the database in order to get the information about the Tutor. The communication between the database and the application consists of only reading operations not allowing students to change the information.

2.3.4. Communications Interfaces

The communication between the different parts of the system is important since they depend on each other. However, in what way the communication is achieved is not important for the system and is therefore handled by the underlying operating systems for FMT application.

2.4. System Features

2.4.1. Functional Requirements

REQ-SF1-1: Tutor can send request to Admin in order to register themselves.

REQ-SF1-2: Student can register themselves.

REQ-SF1-3: Tutor can login itself.

REQ-SF1-4: Student can Login into system.

REQ-SF1-5: Admin can login to perform operations.

REQ-SF1-6: Tutor can view his/her profile.

REQ-SF1-7: Tutor can add basic information like name, address and contact no, qualifications, subjects and their live location must be compulsory.

REQ-SF1-8: Tutor can update/delete his/her profile.

REQ-SF1-9: Student can view his/her profile.

REQ-SF1-10: Student can add basic information like name, address and contact no, qualifications etc.

REQ-SF1-11: Student can update/delete his/her profile

REQ-SF1-12: Admin can update/delete any Tutor.

REQ-SF1-13: Admin can delete any student.

REQ-SF1-14: Registered Students will enter search text into the search textbox and click search button. System find the Tutor_id form database and display to students.

REQ-SF1-15: Admin can view any profile of Tutor/student form the system.

REQ-SF1-16: Registered Students and Tutors will select one of the document types (how to use) and click “download” button. System will download the selected document to the folder specified by the user on user’s computer.

REQ-SF1-17: On click “useful tips” button. System will display the useful tips as a list item.

REQ-SF1-18: Admin can create an agreement for students and Tutors.

REQ-SF1-19: Tutor will click “Create profile” button manage their profile entering data according to given constrains system will check if any error and display. On click submit button Tutor data will stored into the database.

REQ-SF1-19: Tutor can view his/her profile.

REQ-SF1-20: Tutor will click “register” button and Request send to Admin. Admin verify the profile and accept the profile on click “accept” button by admin data of Tutor will be stored into the database.

REQ-SF1-21: Student will click “chat” button and notification send to Tutor.

REQ-SF1-22: When a Tutor login it will necessary to provide their live location whenever he will open or using this app must be given access to their live location so Students/Parents can view the live location of Tutors.

2.5. Other Nonfunctional Requirements

2.5.1. Performance Requirements

This is successfully satisfying the users of the basis requirement. The tools and application Software are used in this project are very popular and easily available across the world. The system will be available for 7/24 hours.

2.5.2. Safety Requirements

- The failure of safety critical software functions shall be detected, isolated, and recovered from such that catastrophic and critical hazardous events are prevented from occurring.
- Software shall provide error handling to support safety critical functions.
- Software shall provide fault containment mechanisms to prevent error propagation.
- Software termination shall result in a safe system state.

2.5.3. Security Requirements

Confidentiality:

- Tutors will register to the system with using their Tutor_id and each Tutor_id will be validated by the Tutor_id authorization.
- Only registered Tutors providers may access to the useful documents and create profiles.

Accountability:

- All account modification events shall be logged.

2.5.4. Software Quality Attributes

Software quality requirements for this platform are:

- Availability: The system will be 7/24 available.
- Usability: System usability will be measured via user surveys.

- Performance: Performance of functions will be tested for timing adequately.
- Functionality: Functionality will be evaluated via user feedbacks from the system.
- Reliability: Security tests will be performed sufficiently.

2.5.5. Business Rules

There are mostly two kinds of clients utilizing the framework, for example,

- User
- Administrator

Administrator has the full authorization of controlling the framework. User has authorization to send request or view detail of each other and chat with each other.

Chapter 3

Use Case Analysis

Chapter 3: System Analysis

This framework is tied in with changing over the home tuition framework from manual to on the online form mobile phone. Students can find Tutor for their home tuitions and Tutors create profiles and find home tuitions for themselves. Admin is adding approved Tutor. Overseer can alter or erase the items from the database. Administrator can see day-by-day result and send notification to all the users. Administrator is adding the conveyance answer to the database. Both administrator and client can see the conveyance report.

3.2. Use Case Descriptions

Use Case -1 Manage Account

Scope	Find My tutor
Level	User goal
Primary Actor	Student, Tutor, Parent
Stake Holder and Interest	Student's Tutor and parent can manage their account.
Preconditions	User first time open application and perform this function.
Success Guarantee	User first time open application and successfully perform this operation.
Main Success Scenario	User start the application. Application start successfully. User enter the user name and password. User click on registration button. User click on terminate button. User successfully registered and now on home page. User successfully terminate and again start the application.
Alternate Scenario	User not enter true details and a pop up show please enter valid information.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students and Tutor.

Use Case -2**Login**

Scope	Find My tutor
Level	User goal
Primary Actor	Student, Tutor, Admin
Stake Holder and Interest	Students, Tutor and admin first time login themselves to use this app.
Preconditions	Student, Tutor and admin first time open application and perform Login.
Success Guarantee	Student, Tutor and admin first time open application and successfully Login.
Main Success Scenario	Students, Tutor and admin start the application. Application start successfully. Students, Tutor and admin enter the user name and password. Students, Tutor and admin click on login button. Students, Tutor and admin login successfully and now on home page.
Alternate Scenario	Students, Tutor and admin not enter true details and a pop up show please enter valid information. Forget password: User click on forget password and go to forget password and change password.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students and Tutor.

Use Case -3**Search Tutor**

Scope	Find My tutor
Level	User goal
Primary Actor	Student
Stake Holder and Interest	Students can search Tutor by Tutor id.
Preconditions	Student must be login to search Tutor.
Success Guarantee	Student successfully search Tutor.
Main Success Scenario	Student start the application. Application start successfully. Student enter the user name and password. Student click on search button. Student can search and find Tutor.
Alternate Scenario	Student not enter true details of Tutor and a pop up shows Tutor id not valid.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students.

Use Case -4**Send Request**

Scope	Find My tutor
Level	User goal
Primary Actor	Student
Stake Holder and Interest	Students can send request to Tutor for appointment.
Preconditions	Student must be select a Tutor to send request.
Success Guarantee	Student successfully send request to Tutor.
Main Success Scenario	Student start the application. Application start successfully. Student enter the user name and password. Student select the Tutor and send request to Tutor.
Alternate Scenario	Students not enter true details of Tutor and a pop up shows Tutor id not valid.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students.

Use Case -5**Delete**

Scope	Find My tutor
Level	User goal
Primary Actor	Student, Tutor, Admin
Stake Holder and Interest	Students and Tutor delete their profiles, admin also delete any student and Tutor.
Preconditions	Student, Tutor and admin must be login to perform this functions.
Success Guarantee	Student and Tutor successfully delete their profiles and admin can also successfully delete any Tutor or student.
Main Success Scenario	Student and Tutor start the application. Application start successfully. Student and Tutor enter the user name and password. Student and Tutor login successfully and now on home page. Student and Tutor click on delete button and delete their profile.
Alternate Scenario	Student and Tutor click on delete button and a pop up create. Confirm to delete.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students, Tutors and admin.

Use Case -6
Accept/ Reject Request

Scope	Find My tutor
Level	User goal
Primary Actor	Tutor
Stake Holder and Interest	Tutor can accept and reject appointment request by students.
Preconditions	Student, Tutor and admin must be login to perform this functions.
Success Guarantee	Tutor successfully accept or reject the request.
Main Success Scenario	User start the application. Application start successfully. Tutor enter the user name and password. Tutor login successfully and now on home page. Tutor click on request button view all requests. Tutor can accept or reject request and notify to student.
Alternate Scenario	User click on view request and do not response to any request.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students, Tutors and admin.

Use Case -7**Chat**

Scope	Find My tutor
Level	User goal
Primary Actor	Student, Tutor
Stake Holder and Interest	Students and Tutor chat with each other.
Preconditions	Student, Tutor and admin must be login to perform this functions.
Success Guarantee	Student and Tutor can chat with each other.
Main Success Scenario	Tutor and student start the application. Application start successfully. Tutor and student enter the user name and password. Tutor and student login successfully and now on home page. Tutor accept student request and now student and Tutor chat with each other.
Alternate Scenario	Tutor not accept student request and student cannot chat with Tutor.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students, Tutors and admin.

Use Case -8**Edit**

Scope	Find My tutor
Level	User goal
Primary Actor	Student, Tutor
Stake Holder and Interest	Students and Tutor edit their profiles.
Preconditions	Student, Tutor and admin must be login to perform this functions.
Success Guarantee	Student and Tutor can edit their profiles.
Main Success Scenario	Tutor and student start the application. Application start successfully. Tutor and student enter the user name and password. Tutor and student login successfully and now on home page. Tutor and student click on edit button and update their profiles.
Alternate Scenario	Tutor and student don't need to update their profile.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students, Tutors and admin.

Use Case -9**Notifications**

Scope	Find My tutor
Level	User goal
Primary Actor	Admin
Stake Holder and Interest	Admin can notify to all the user.
Preconditions	Admin must be login to perform this functions.
Success Guarantee	Admin successfully send notification as a pop up to every user (students or Tutors) when login.
Main Success Scenario	User start the application. Application start successfully. Admin enter the user name and password. Admin login successfully and now on home page. Admin create notification by click on notify button and send to all users.
Alternate Scenario	Admin can also send notification to only one user.
Special Requirements	Language is English only. The interface must be supportive and friendly.
Technology and data variation list	All the inputs enter by touch screen of mobile and input devices.
Frequency of assurance	It cloud occur discontinuously.
Miscellaneous	It can be done by students, Tutors and admin.

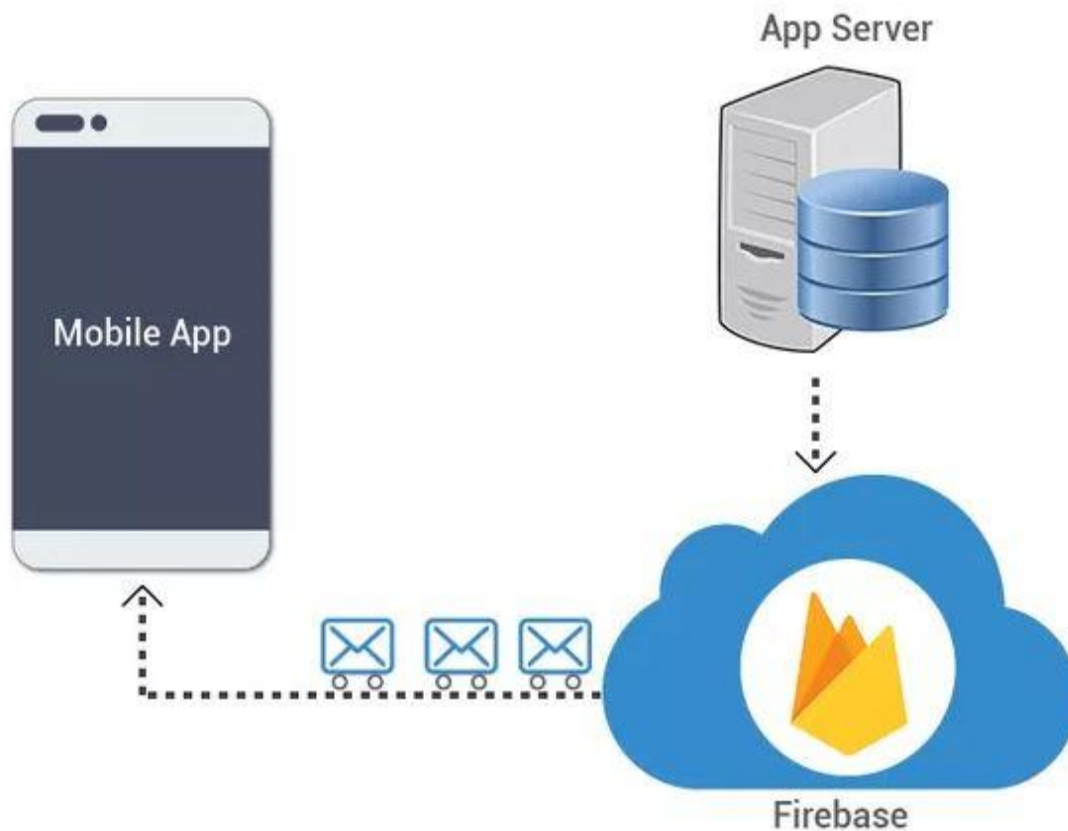
Chapter 4

System Design

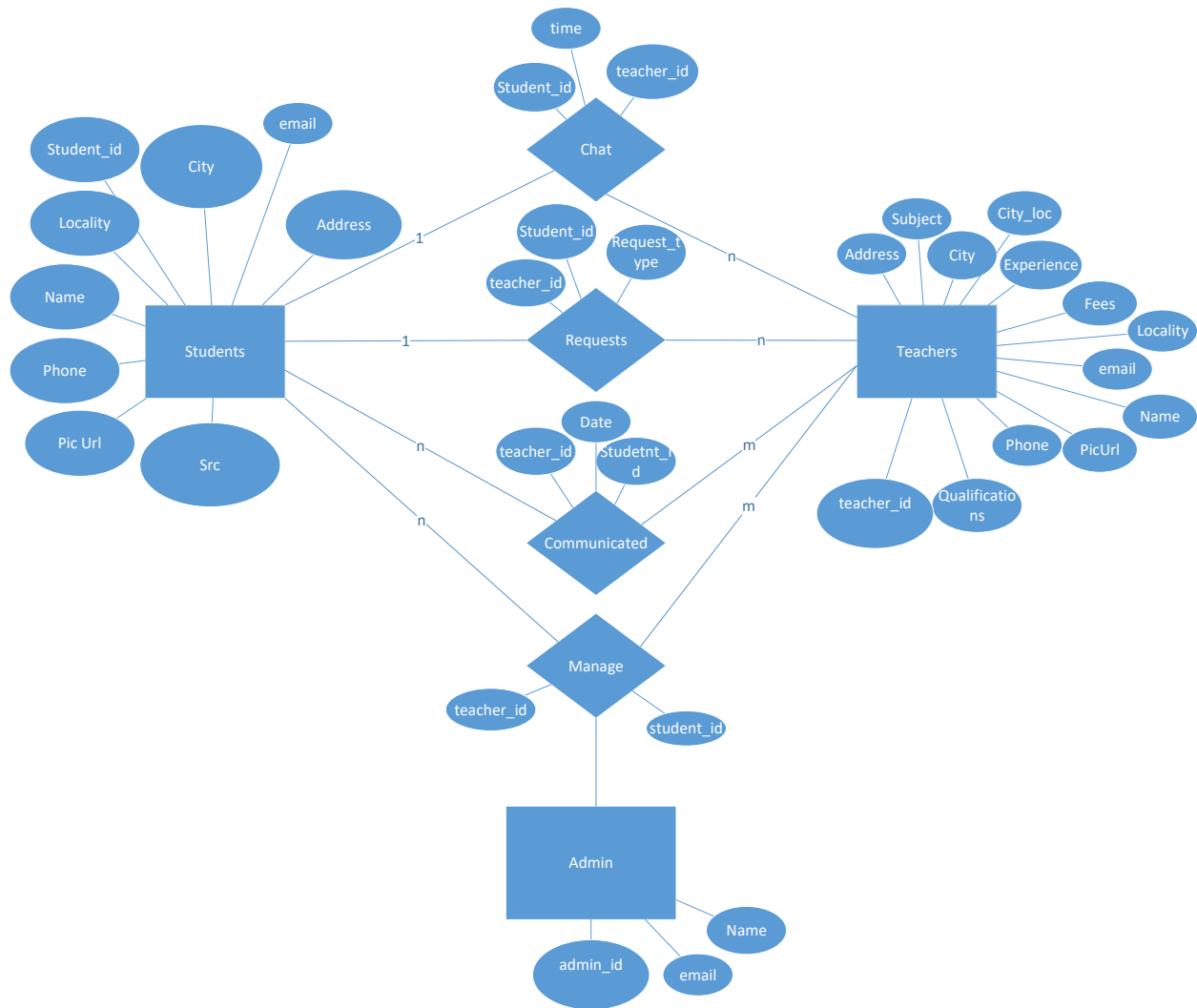
Chapter 4: System Design

The online FMT is an application the mobile program fills in as a UI for the framework. Mobile program sends solicitations to the server and the server react to mobile in XML organize, mobile program, at that point show the data to the client. WIFI or Ethernet is utilized and it needs a legitimate system. Firebase Database on the server when client information is stored and handled.

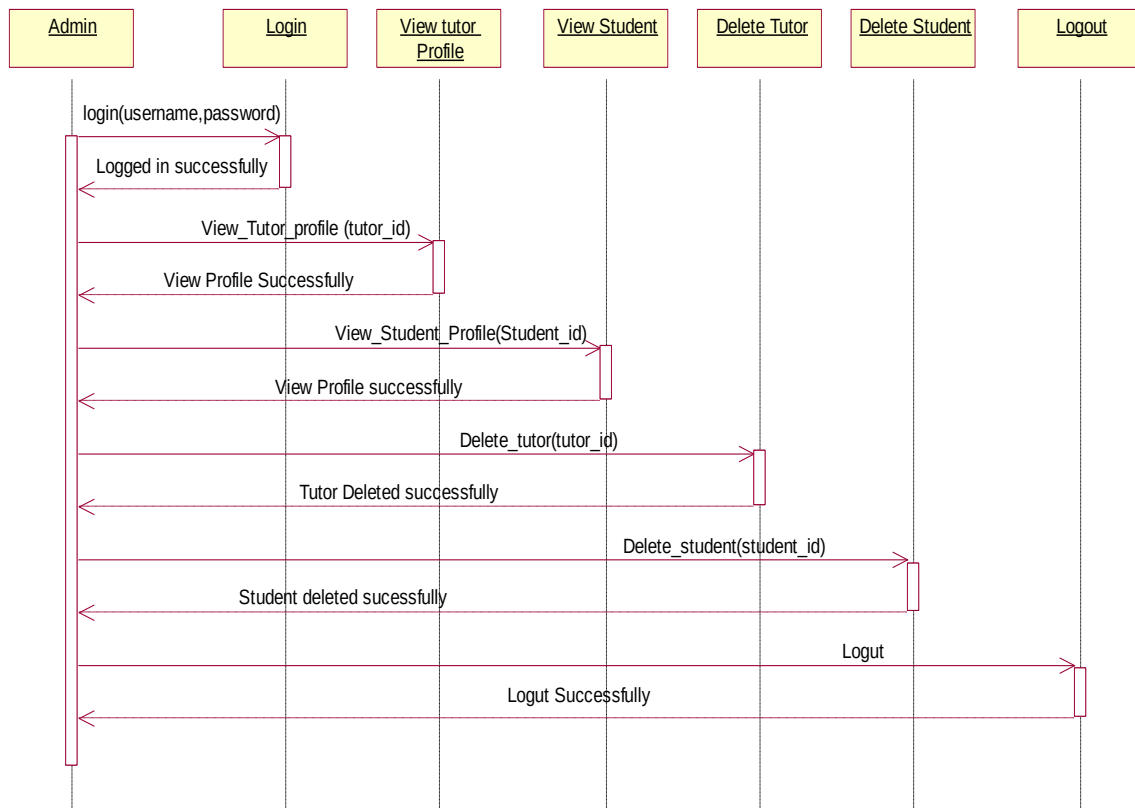
4.1. Architecture Diagram

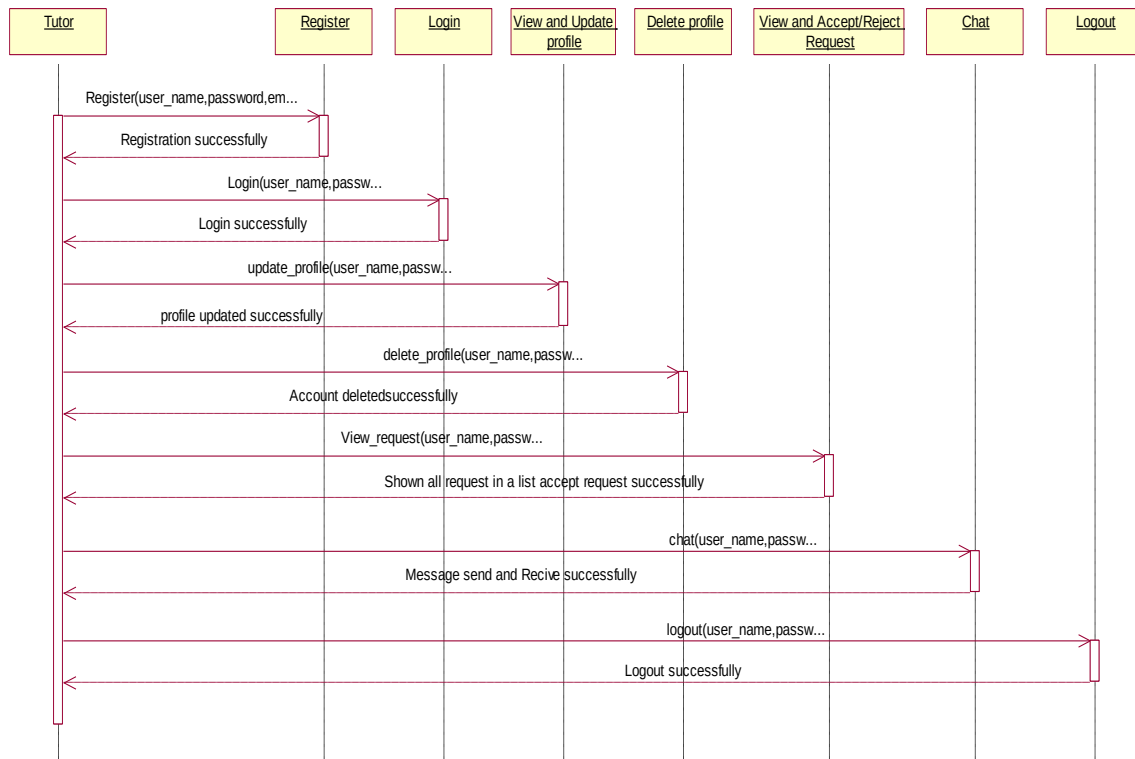


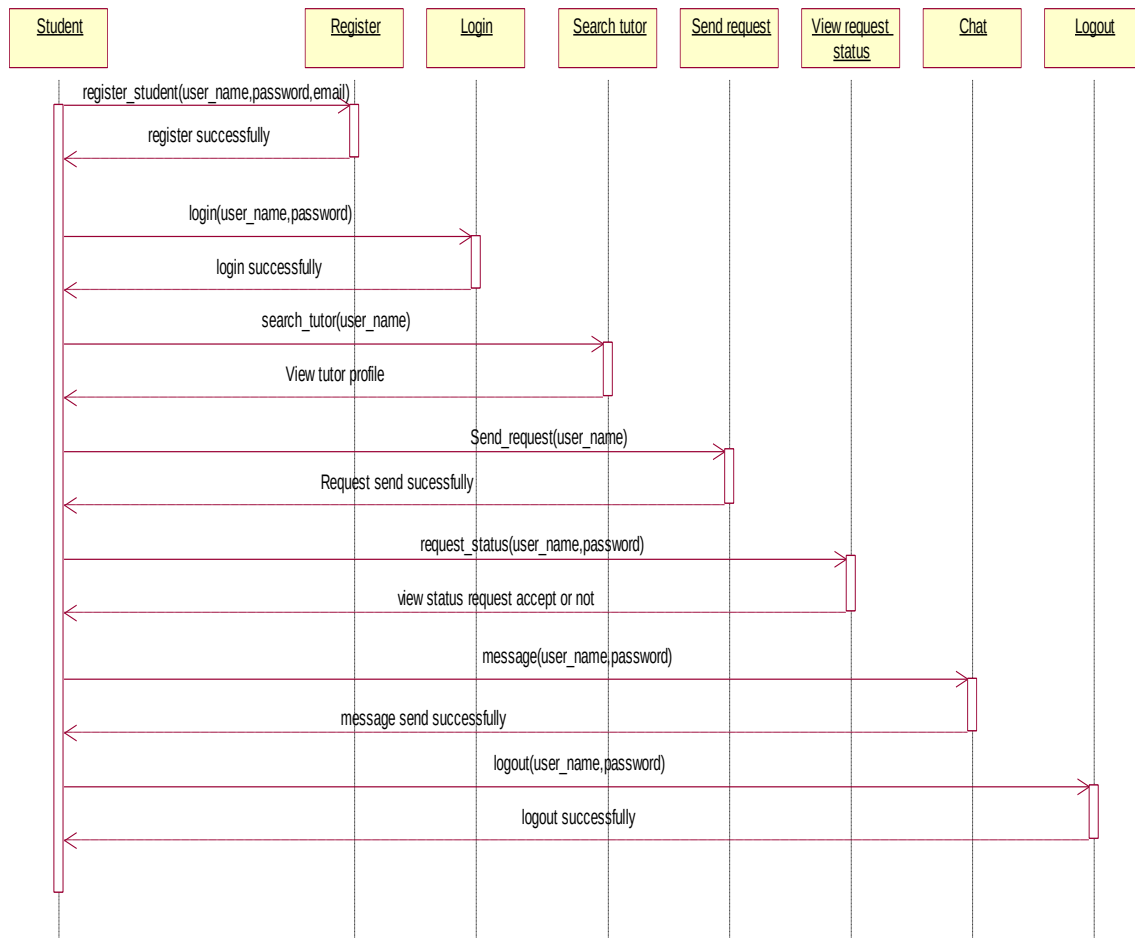
4.3. Entity Relationship Diagram with data dictionary



4.5. Sequence / Collaboration Diagram







4.6. Operation contracts

4.6.1 Operation Contract#1

Name: Register.

Responsibilities: To register the new user.

Cross References: Use case: Register.

Exceptions: None.

Preconditions: Register interface must be opened and user must enter valid information.

Post conditions: Welcome screen showed to the user.

4.6.2 Operation Contract#2

Name: Login.

Responsibilities: A user is logged in.

Cross References: Use Case: Login.

Exceptions: invalid user name or password.

Preconditions: user must have account.

Post conditions: Successfully logged in.

4.6.3 Operation Contract#3

Name: Sign out.

Responsibilities: user is logged out.

Cross References: Use Case: Sign_out.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Log out successfully

4.6.4 Operation Contract#4

Name: View detail of Tutor.

Responsibilities: User must View detail of the Tutor.

Cross References: Use Case: View Tutor Profile.

Exceptions: None.

Preconditions: User must login.

Post conditions: View detail successfully.

4.6.5 Operation Contract#5

Name: Send Request to Tutor.

Responsibilities: User must be send request to the Tutor.

Cross References: Use Case: Send Request.

Exceptions: None.

Preconditions: User must login.

Post conditions: Request sent successfully.

4.6.6 Operation Contract#6

Name: View request Status.

Responsibilities: User must View send request status.

Cross References: Use Case: Send Request.

Exceptions: None.

Preconditions: User must login.

Post conditions: shown request status successfully.

4.6.7 Operation Contract#7

Name: Update Profile.

Responsibilities: User must update their profile.

Cross References: Use Case: Update profile.

Exceptions: None.

Preconditions: User must login.

Post conditions: Profile updated successfully.

4.6.8 Operation Contract#8

Name: Delete profile.

Responsibilities: User must delete their profiles.

Cross References: Use Case: Delete Account.

Exceptions: None.

Preconditions: User must login.

Post conditions: Account deleted successfully.

4.6.9 Operation Contract#9

Name: Chat.

Responsibilities: Student and tutor must be chat with each other.

Cross References: Use Case: chat.

Exceptions: Message not sent successfully.

Preconditions: User must login.

Post conditions: Message sent successfully.

4.6.10 Operation Contract#10

Name: Logout.

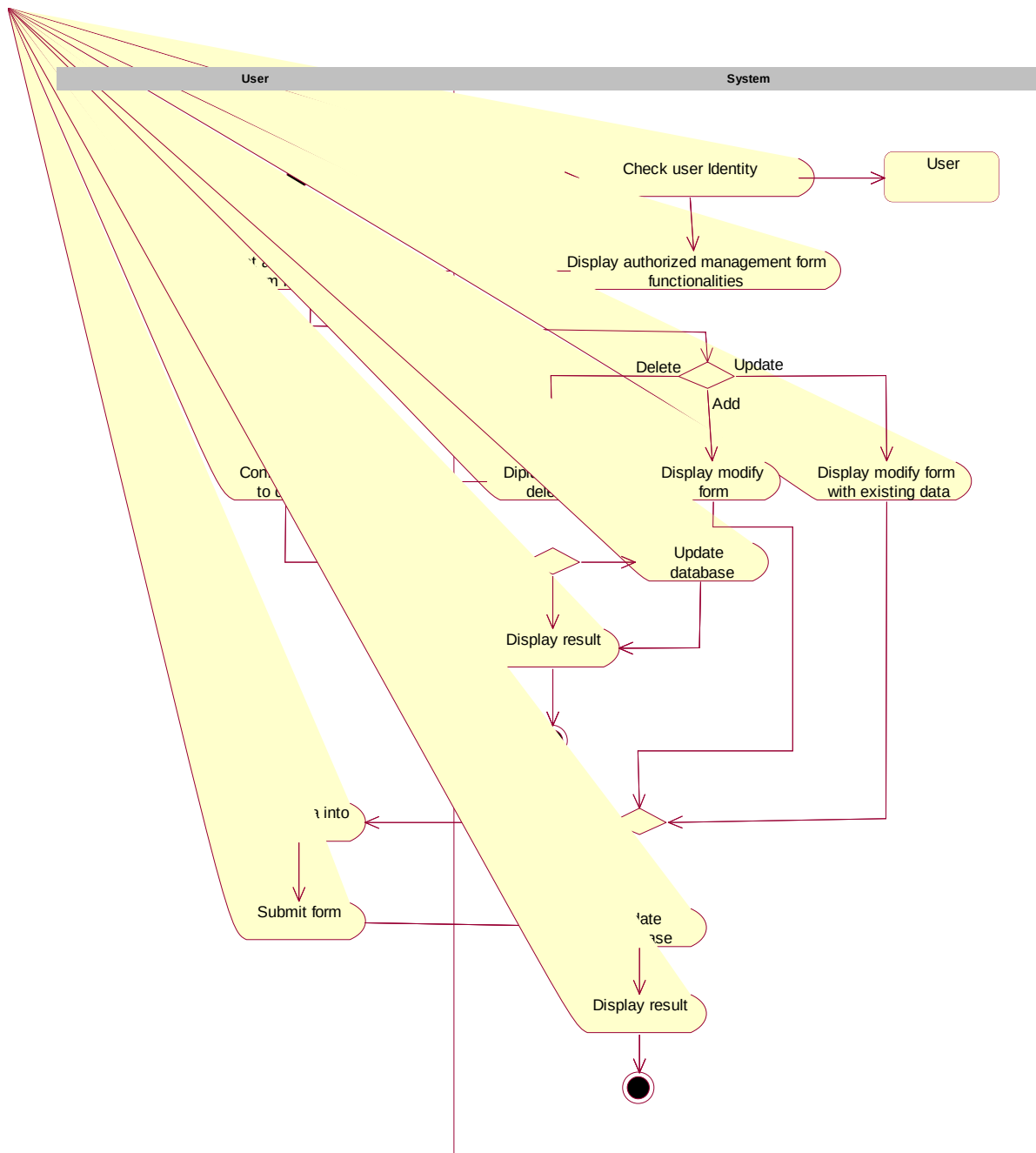
Responsibilities: User must logout.

Cross References: Use Case: Logout.

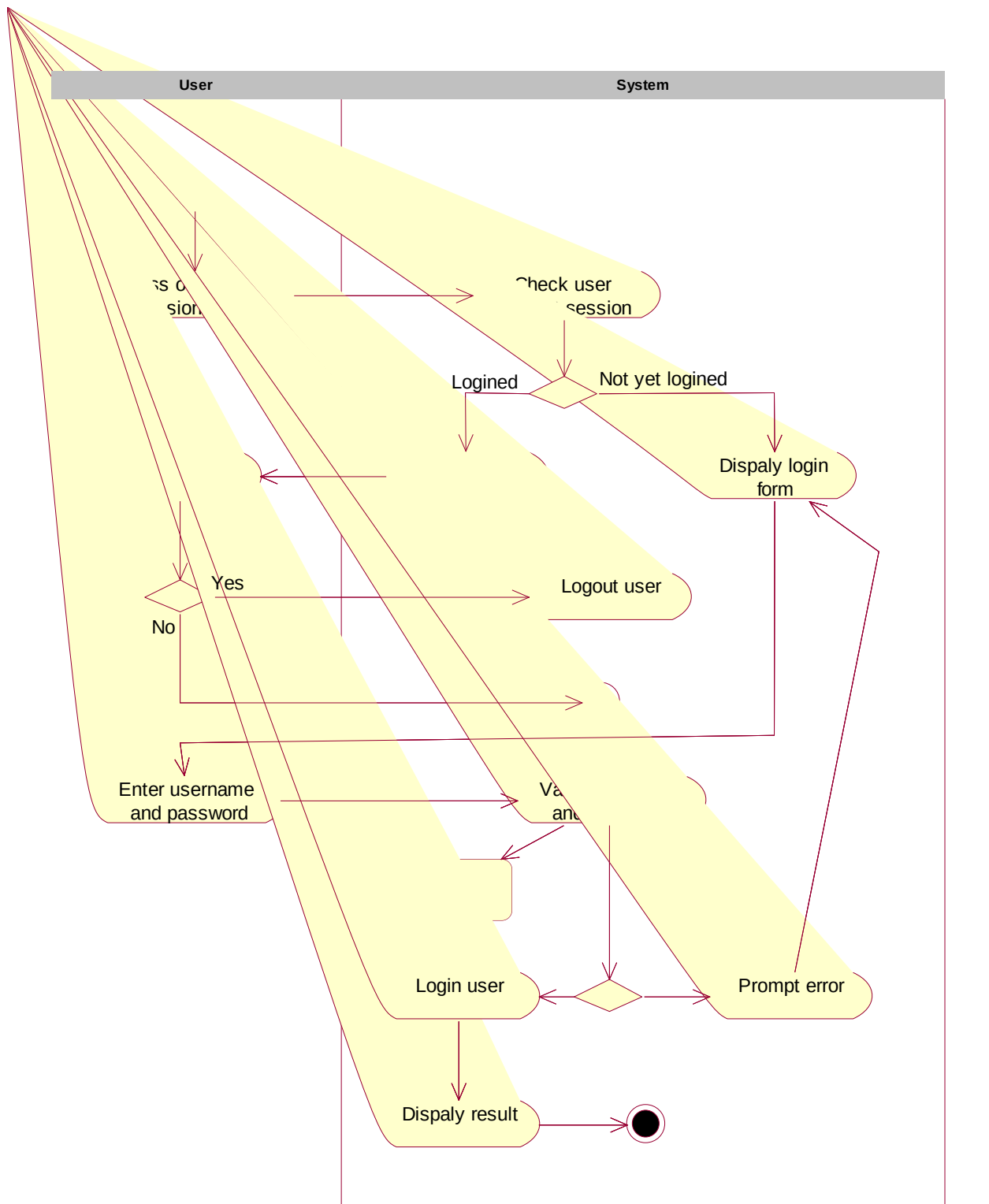
Exceptions: None.

Preconditions: User must login.

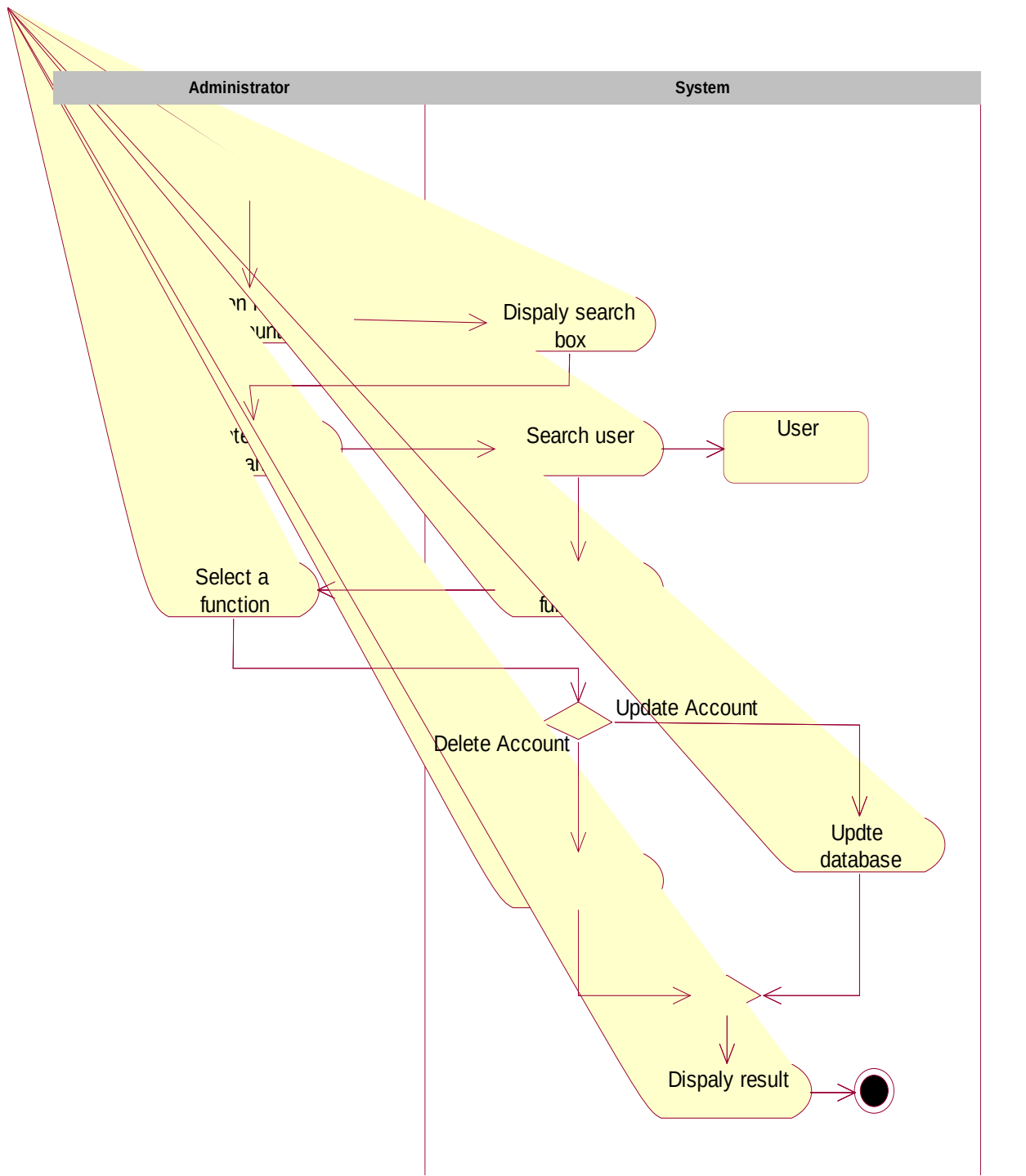
Post conditions: Logout successfully.



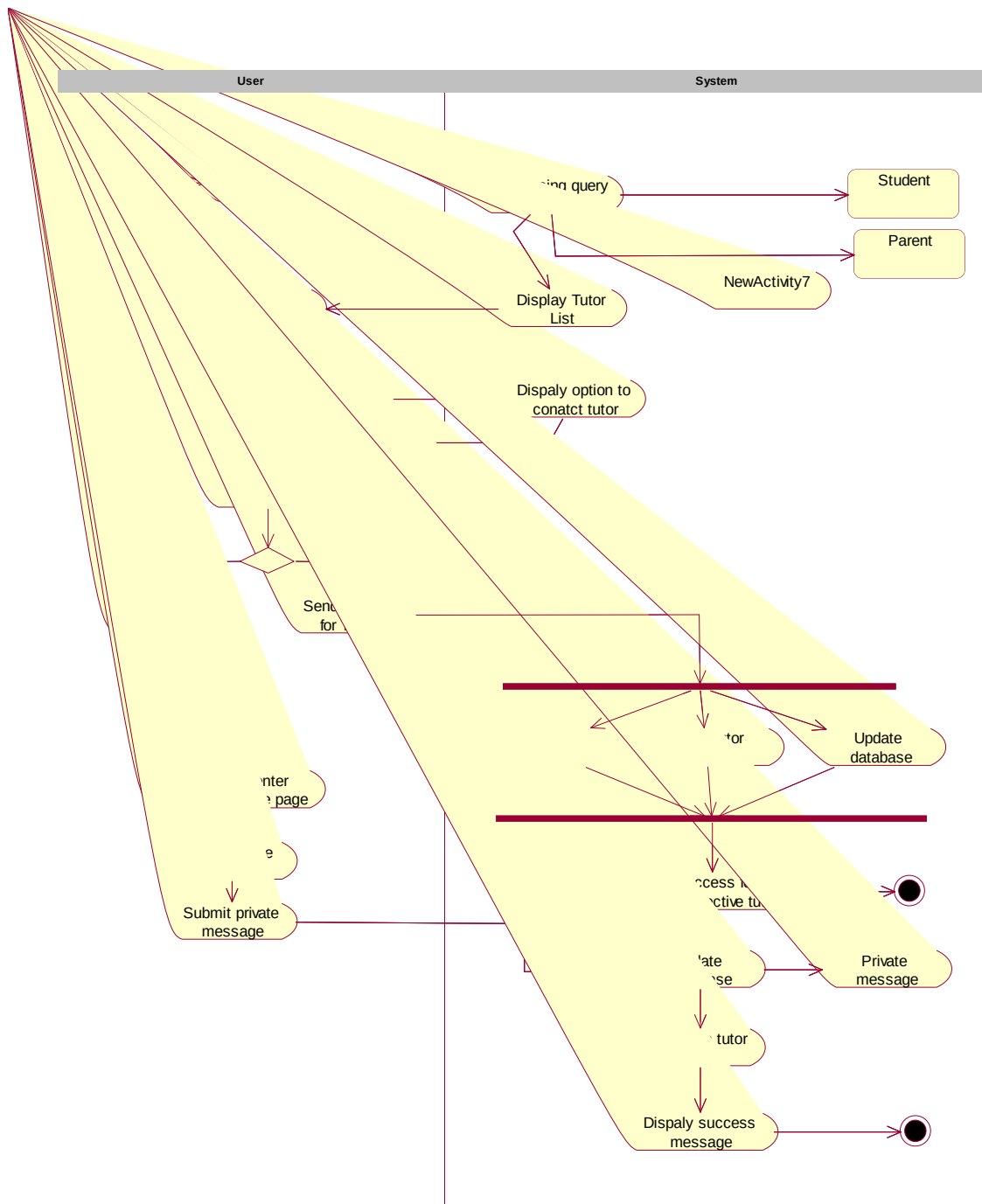
Management form (Update/Delete) Activity Diagram



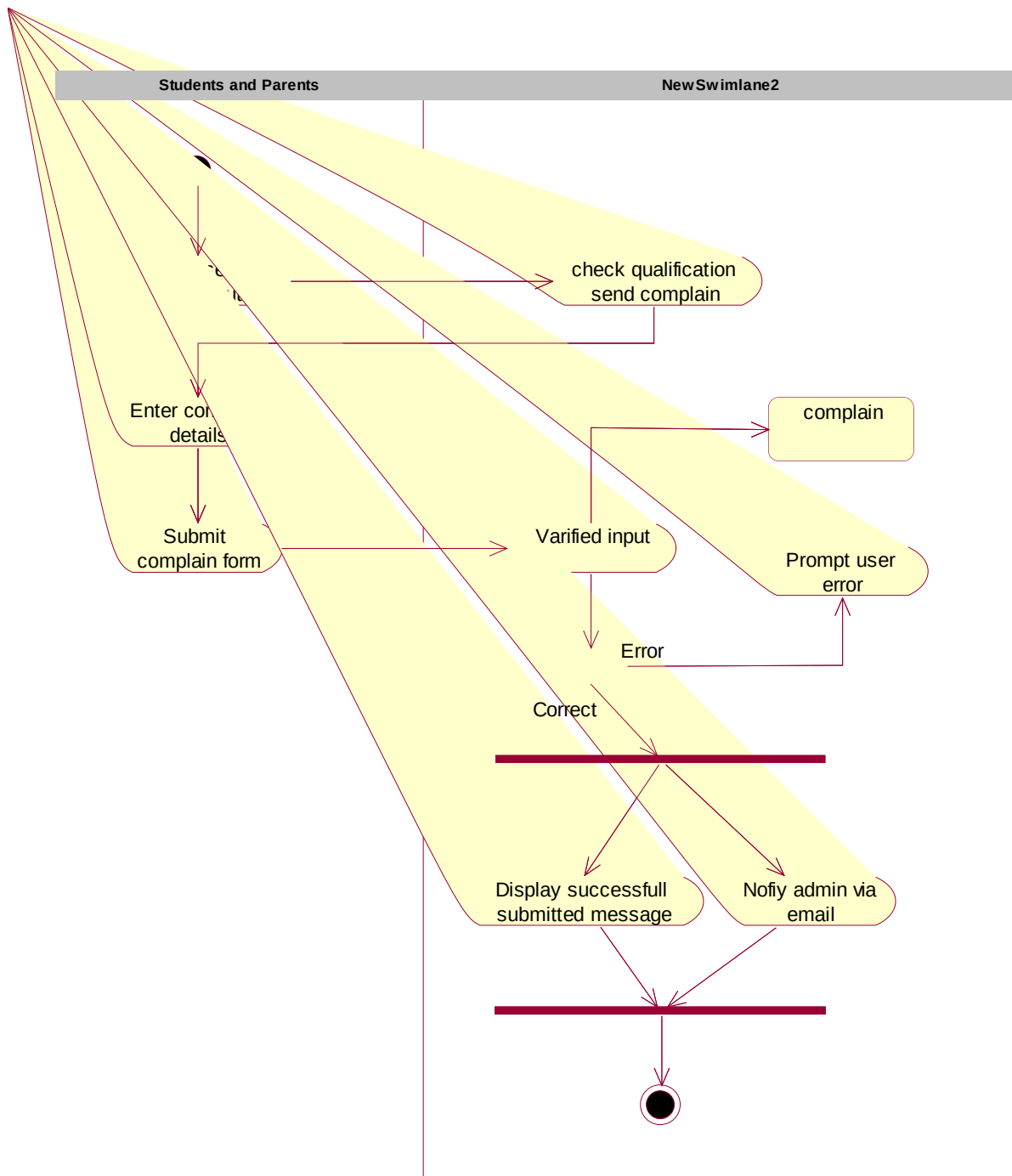
Session Management Activity Diagram



Admin Management Activity Diagram

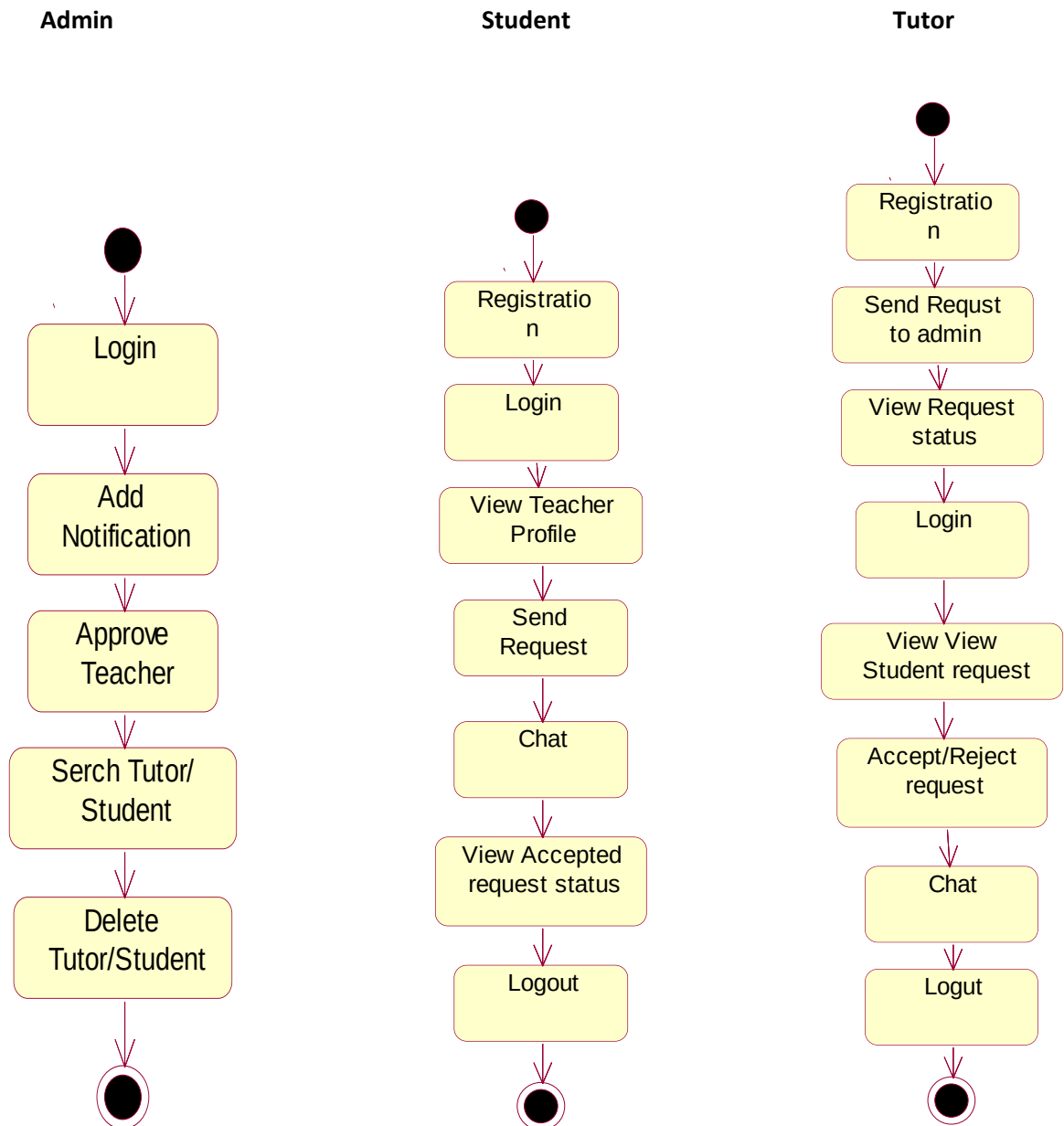


Search Tutor Activity Diagram



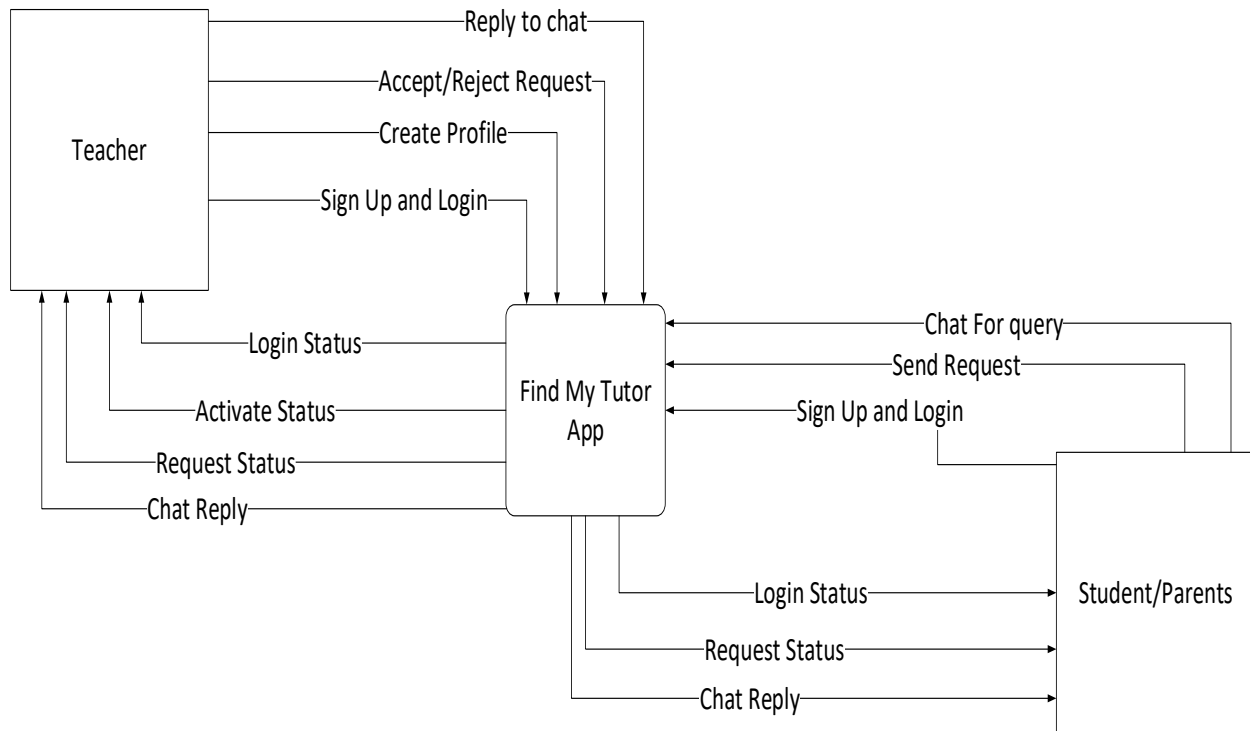
Send Complain to administrator Activity Diagram

4.8. State Transition Diagram

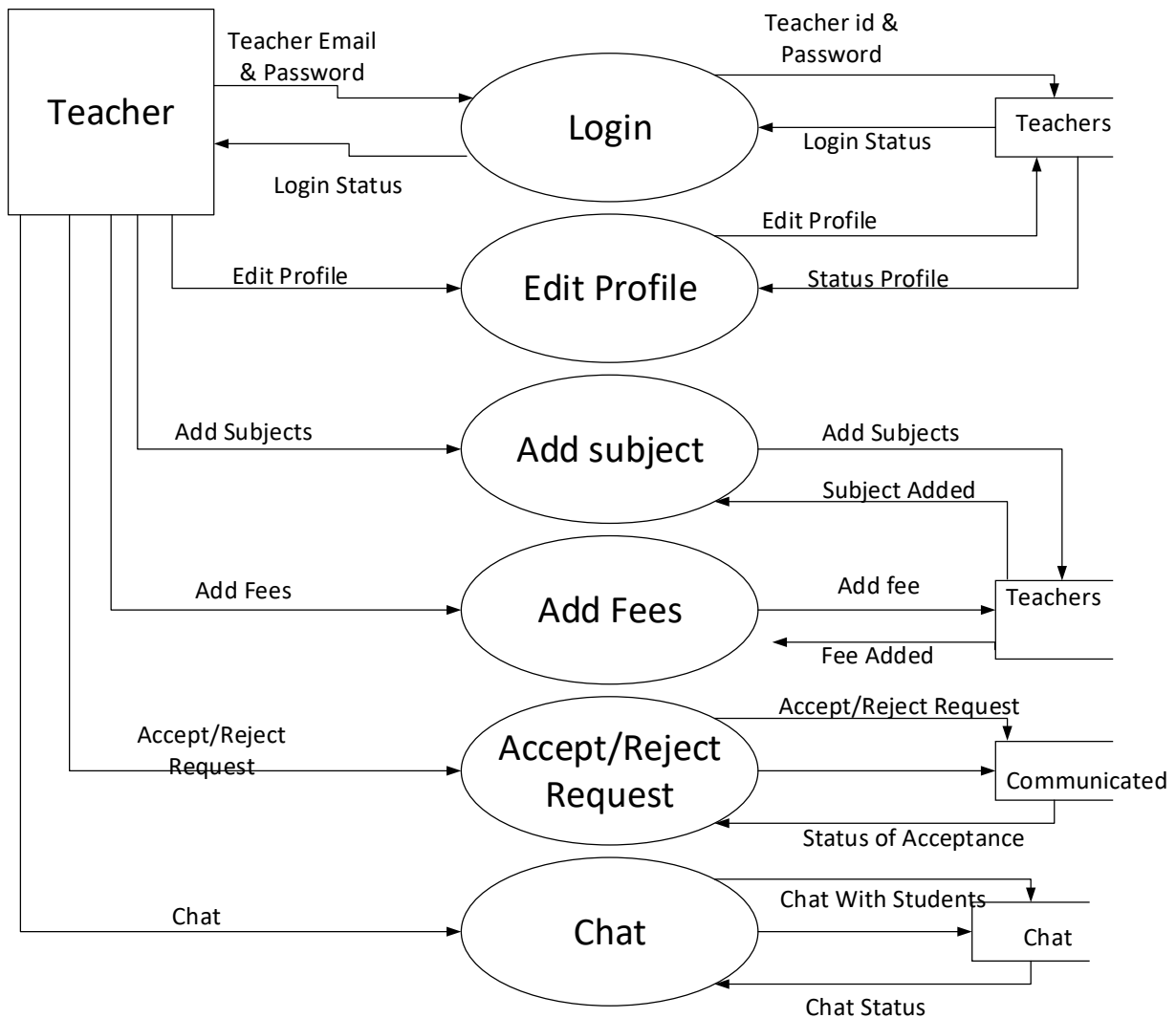


4.9. Data Flow diagram

Data Flow Diagram

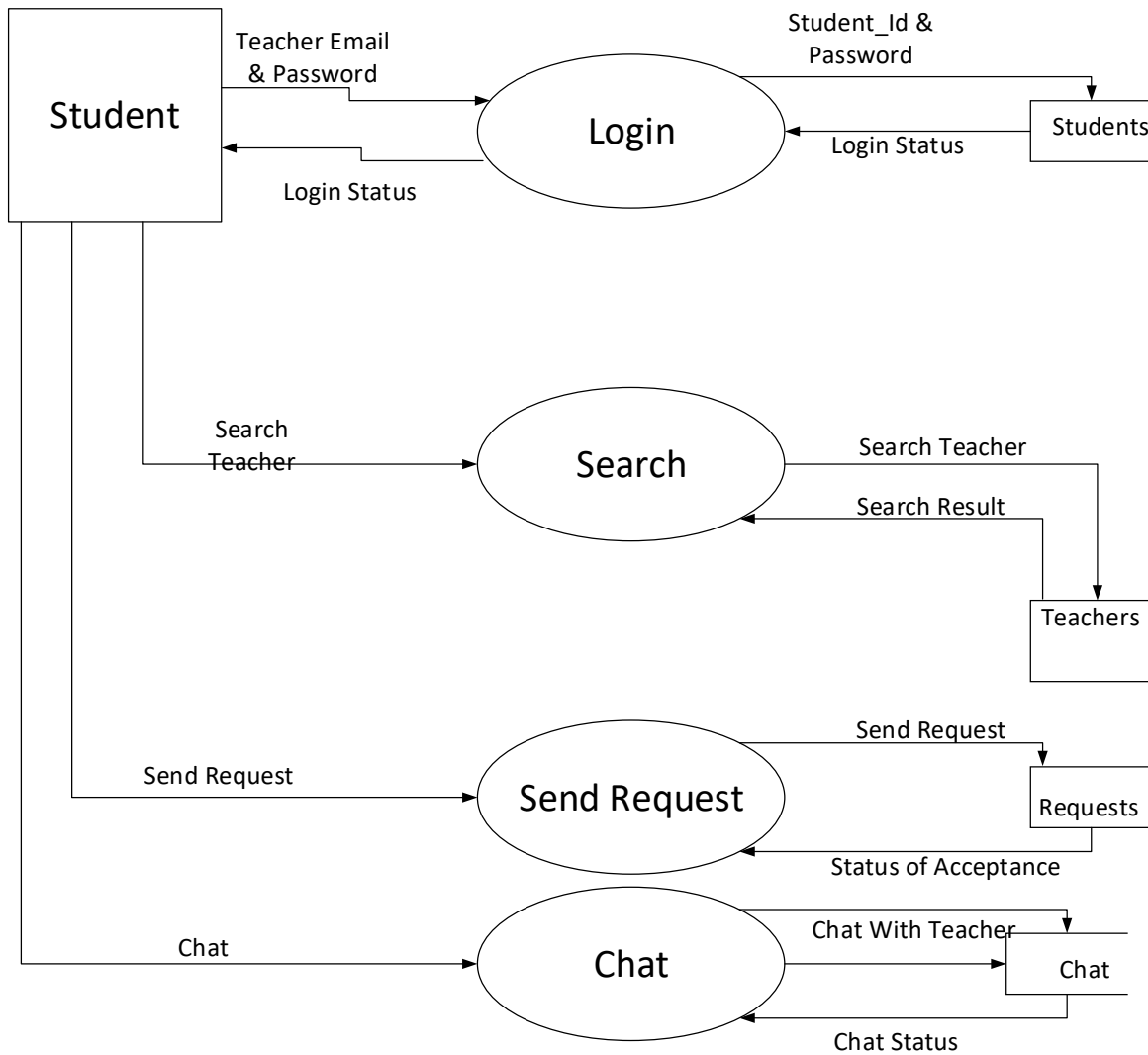


Tutor:



DFD Level 1

Student:



DFD Level 1

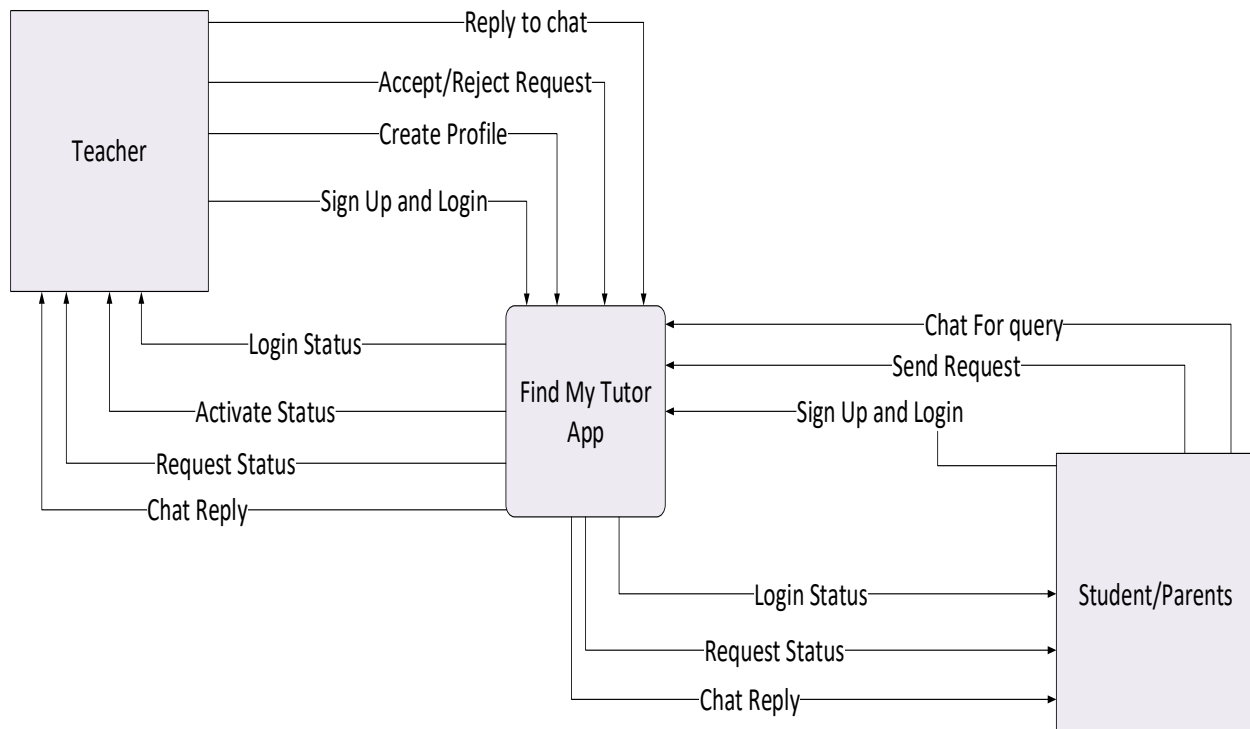
Chapter 5

Implementation

Chapter 5: Implementation

This is a task with the goal to build up an essential application where a student is given a chance to find a tutor according to their own need and wishes. This report will talk about every one of the fundamental advances to make and actualize an android based business site.

5.1. Important Flow Control/Pseudo codes



5.2. Components, Libraries, Web Services and stubs

1. Properly Structured Application

FMT application is easy to use. If a student want to send request to any tutor he/she easily send request and find tutor as they want form our application. Our application has a simple structure, with the most important pages accessible from the main navigation menu.

2. Mobile Friendly usage Experience

Today, the world of technology is evolving quickly; more and more people have been using their mobile devices to do their living task. Our FMT application is mobile friendly.

Mobile Services

- Students straightforwardly find tutor for themselves without any third party person.
- 24-hr access
- Available Tutor of all subject on a single platform.
- The in home-privacy

5.3. Deployment Environment

Student which have smart phone can easily download FMT application from Google play store through which they can easily access the service and can easily find tutor for themselves. And tutor can also find home tuition easily. It required one administrator who will be in charge of the approval and other supervision duty.

5.4. Tools and Techniques

Applications and tools that would be used during this project preparation are as follows:

Java

It is a language, which is used to develop this application using Android studio Tool. It provides latest Functionalities regarding desktop and mobile based application development.

Microsoft Word:

Microsoft word is the word processor and would be used for documentation purpose throughout the whole project.

Microsoft Excel:

Microsoft excel is spreadsheet and would be used for data analysis throughout the Whole project.

Project Modeling:

Rational Rose and Microsoft Visio are to be used to draw use cases with different Perspectives as they support the language of Rational Unified Process (RUP). Use case Diagram, Data Flow Diagram (DFD), domain model and all other OOAD analysis and Design diagrams are supported.

Server

Server is required where whole data is stored.

5.5. Best Practices / Coding Standards

- No coding repetition
- Function and classes are always commented showing expected input and output.

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

This chapter includes some test cases for the application to check if the Application works properly in various situations. We are giving four test examples for eight different situations here. In this whole chapter we check each aspect of application according to its performance and appearance. Testing each part of the application give us a detailed report of our App which gives us a better understanding of FMT and its lifecycle.

6.1. Use Case Testing

Use Case Testing is a functional black box testing technique that helps testers to identify test scenarios that exercise the whole system on each transaction basis from start to finish.

ID	Test Case Description	Test Case Procedure	Expected Output	Result
1.SignUp new user				
TC1	adding new user	1: Open the Application 2: click on sign up 3: Enter name 4: Enter Email 5:Click User Type 5:Enter Password	User is Registered Successfully	Pass
2.Login				
TC2	User Login	1: Open the application 2: Enter Email 3: Enter Password 4: Click SignIn	User Logged In successfully	Pass

3.Sign Out				
TC3	User logOut	1: On the Main Screen Click on profile button. 2: on the profile screen click on Logout button	user logged out successfully	Pass
4.Update Profile Details				
TC4	Update Profile	1: On the main screen Click on drawer button. 2: On the profile click on Update profile. 3: Add all your info. 4: click on update profile button.	Profile updated successfully.	Pass
5.View Profile Details				
TC5	View Profile	1: On the main screen Click on drawer button. 2: On the profile click on View profile. 3: View your profile.	View profile info.	Pass

6.View Tutors				
TC6	View All Tutors	1: On the main screen click tutor button. 2: View all the approved tutors.	Tutors view successfully in a list.	Pass
7.View Students				
TC7	View All Students	1: On the main screen click Student button. 2: View all the student using this app.	Students view successfully in a list.	Pass
8.View Tutor in your Area				
TC8	View Tutor in your Area	1: On tutor list click on tutor in your area button.	View all the tutors in your nearest area.	Pass
9.Send SMS				
TC9	Send SMS	1: On tutor list click on SMS button. 2: Enter your sms and send to tutor.	SMS send successfully	Pass

10.Send Complaints to Admin				
TC10	Send complaint	1: On main screen click on Alert button. 2: Enter your complaint and click on send button.	Your complaint send successfully to admin.	Pass
11. Chat				
TC11	Chat	1: On main screen click on FMT Chat button. 2: display all the user of FMT application	Display all the online and offline users of FMT application.	Pass.
12.Send Chat				
TC12	Send Chat	1: From user list click on user. 2: Enter your sms and click on send Button.	Sms send to desire user.	Pass
13.Search				
TC13	Search user	1: From tutor list or user list from FMT chat click on search icon. 2: Enter desire user name.	User get successfully.	Pass

14.Notification				
TC14	Notification	1: when send chat or sms user get the notification.	User receive notification successfully.	Pass
15.Live Location				
TC15	Live Location	1: On profile screen user will click on map button and update his live location.	Location detected successfully	Pass
16. View live location of other user				
TC16	View live location of other user	1: On tutor or student list user click on map button.	View desire user live location.	Pass

6.2. Equivalence partitioning

There is a function of a FMT application that accepts a number of digits greater than 6, For example, on the time of registration user should enter the password greater than 6 digits, less than six digits will not be accepted, and the application will show a toast message to user that password must be of 6 digit.

Invalid 1 Test Case	Invalid 2 Test Case	Valid 3 Test Case	Valid 4 Test Case
Digit<6	Digit<6	Digit=6	Digit>6
1122	12233	123456	12345678

6.3. Data flow testing

Data flow testing is the form of white box testing and structural type testing, which generally keeps check at the points, where the data values are being received by the variables, and at the points, when it is called for use. It is used to fill the gap between the path testing and branch testing.

6.4. Unit testing

UNIT TESTING is a level of software testing where individual units/ components of application are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output.

6.5. Integration testing

INTEGRATION TESTING is defined as a type of testing where software modules are integrated logically and tested as a group. A typical software project consists of multiple software modules, coded by different programmers. The purpose of this level of testing is to expose defects in the interaction between these software modules when they are integrated.

Integration Testing focuses on checking data communication amongst these modules. Hence it is also termed as 'I & T' (Integration and Testing), 'String Testing' and sometimes 'Thread Testing'. Integration testing is done to test the functionality and interfacing between the module. The system is built up for various module which work together to automate the activities of event application system. This module is work together in a same less way to achieve the desired result. Integration testing will test for this property of module. These modules display a cause and effect relationships, if data in one module changed then it effects the data to change in some other module also. The “**FMT (Find My Tutor)**” is test on every kind of OS and its work’s correctly It needs just Internet Connection must.

6.6. Performance testing

PERFORMANCE TESTING checks the speed, response time, reliability, resource usage, scalability of a software program under their expected workload. The purpose of Performance Testing is not to find functional defects but to eliminate performance bottlenecks in the software or device. The focus of Performance Testing is checking a software program's

- Speed - Determines whether the application responds quickly
- Scalability - Determines maximum user load the software application can handle.
- Stability - Determines if the application is stable under varying loads

6.7. Stress Testing

STRESS TESTING is a type of Software Testing that verifies the stability & reliability of the system. This test mainly measures the system on its robustness and error handling capabilities under extremely heavy load conditions.

Stress Testing is done to make sure that the system would not crash under crunch situations. It even tests beyond the normal operating point and evaluates how the system works under those extreme conditions.

We normally used stress testing to understand the system limit and at which point these are executed. Stress testing is especially helpful in determining whenever the system will perform in a satisfactory manner if the current load goes well above the expected manner.

Invalid	Valid
User name =< 0	User name >0
Password =< 5	Password => 6
If in mail @ not used	@ used

Stress testing's objective is to check the system under extreme conditions. It monitors system resources such as Memory, processor, network etc., and checks the ability of the system to recover back to normal status. It checks whether the system displays appropriate error messages while under stress.

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

7.1. Project Summary

Often, it can be very tricky to know where to look and find a Tutor if you don't have any connections. Usually, when a student wants to search a tutor, he/she has to search through newspaper advertisements or asks any friend or relative who can recommend a highly qualified and expert tutor with affordable fees.

This project aims at developing an crossed platform with the aim of making it easier for parents and students to instantly find and connect with thousands of professional and certified tutors at one place. This application will provide students a platform on their smart phones for finding the experts and tutors of their desired field/subject according to their qualification and experience. The proposed mobile application will provide an efficient search engine which will help students to search using different filters (subject, location, qualification etc.). Based on the applied filters, the search engine will find the most relevant data and will display it to the user. Search by Location feature will also be integrated in the application so that the users can search for the tutors in their surrounding locations as well as the tutor can know from where the services are being requested.

There will be two users of the Application.

1. Student
2. Tutor

7.2. Achievements and Improvements

Our achievements is today we successfully launch our application in free of cost and our application is according to the user requirements. As this is the era of innovation and competition; there may be loops for improvements in our system. We highly appreciate customer's feedback and with the passage of time we will make our products and services more efficient and reliable.

7.3. Critical Review

FMT application is a crossed platform with the aim of making it easier for parents and students to instantly find and connect with thousands of professional and certified tutors at one place. This application will provide students a platform on their smart phones for finding the experts and tutors of their desired field/subject according to their qualification and experience.

The proposed mobile application will provide an efficient search engine which will help students to search using different filters (subject, location, qualification etc.). Based on the applied filters, the search engine will find the most relevant data and will display it to the user. Search by Location feature will also be integrated in the application so that the users can search for the tutors in their surrounding locations as well as the tutor can know from where the services are being requested

7.4. Lessons Learnt

This Final Year Project was a great opportunity for us to discover new fields and ways of working. Cooperating with the real time systems was very interesting since our skills were really complementary. Learning Pure Data was truly enthralling and opened new vistas for us. Indeed, it forced us to understand how to make real time mobile application from scratch, something that always interested us. We started the project with no clear objective, and our main goal at the beginning was to registering new users to our application and interaction of people with app. Therefore, we were very glad to be able to finally produce a complete and working application. We learned a lot about real time management systems, which is unexpected for a beginner level computer science project, but the live location part of the project definitely broadened our horizons and we are thankful for that. The superior university atmosphere in which we worked clearly motivated us to try new things and gave us the freedom that was needed for such a project.

7.5. Future Enhancements/Recommendations

The project that is completed so far is running well and fulfills all the requirement of the course project. However improvements can be done to this project which we could not do because of

the time limit of the course. We have suggested the following improvements which can be done in this project.

- Create a web backup
- Create web base APIs and integrate it for more speed.
- Also create ISO app of FMT.

Appendices

Appendix A: User Manual

Part 1: Getting Started

Downloading the app

To use the Find My Tutor mobile app, you have to first download it from the Google Play Store.

1. Open the App Store and search for “Find My Tutor”.
2. Download and install the Find My Tutor mobile app on your device.
3. Open the Find My Tutor mobile app.

You are ready to go!

Part 2: Splash Screen

After successfully install open the app and you will see a splash screen of 3 seconds which represent our application. Splash screen will be look like this as show in fig below:



Part 3: Signing in

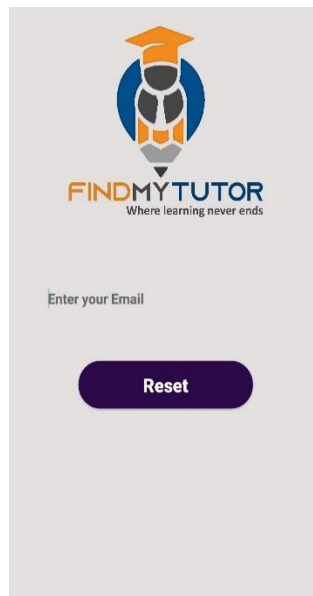
1. Sign in to the app by typing in your name, email address and password in the allocated fields.
2. Choose the type of user are you? Are you a tutor or student?
2. Press the “Sign In” button to complete the process.

Part 4: Login

Login to the app by typing in your email address and password in the allocated fields it will automatically take you to tutor or student dashboard. Once you login the app will maintain your record until you cannot logout so no need to be login every time it just for once.

Part 5: Forget Password

if you forget your password simply click on forget password enter your email address and click on reset if your email is valid a reset link sent on your mail that's why you should enter a valid email in the time of sign up so in the case of forget password you will be easily recover your password.



Part 6: Dashboard

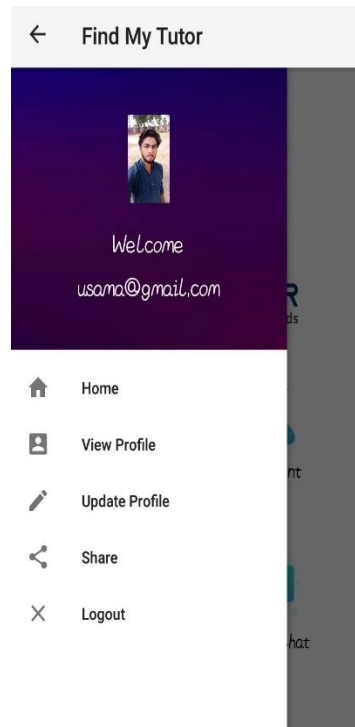
After successful login you will be on your dashboard if you are a tutor you will be automatically on tutor dashboard and if you are a student you will be automatically on the student dashboard.

on dashboard there are 4 tabs firstly is tutor second is student third one is alert and fourth one is fmt chat on clicking tutor you can view all the tutors using this app on click students you can view all the students on clicking alert you can send any query to admin of find my tutor application and in 4th tab fmt chat here online chat with fmt users tutors or students its online secure chat with users.



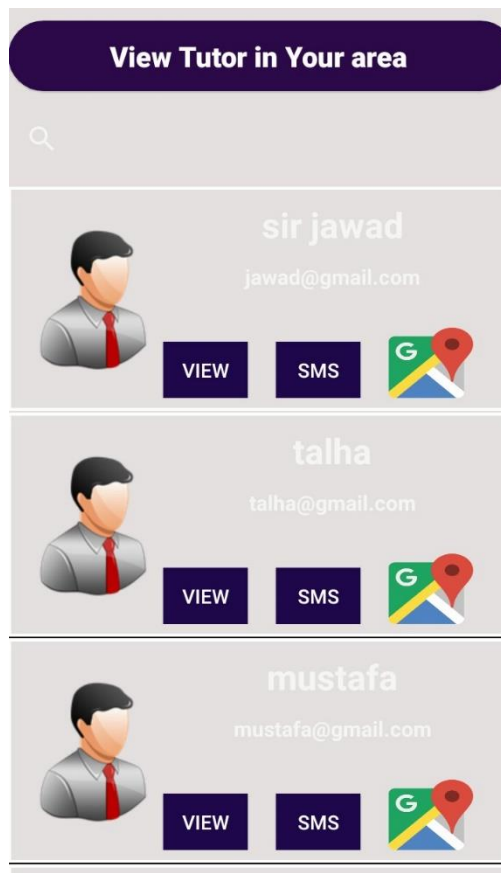
Part 7: Profile

on the top right corner there is a drawer Menu option on clicking drawer Menu option you will be go to your profile where you can you view your profile update your profile share this app with friends are you can logout from this app on clicking update profile you will be go to update profile page where you can enter your qualifications name email address all the necessary information and also your profile picture and your live location.



Part 8: Tutors

By clicking on tutor tab from your dashboard you will be view all the tutors present are using this app there is a list of tutor you can view their profile on clicking on tab send SMS on The Sims are you can view the live location of tutor by clicking on view tutor in your area button you can view nearest available tutor in your area



Part 9: Complaints

By clicking on alert tab you will be go to a complaint page where you can write your queries are message and send to the fmt admin.

Find My Tutor


FINDMYTUTOR
Where learning never ends


Tutor


Student


Alert


FMT Chat

Send Complaint to FMT

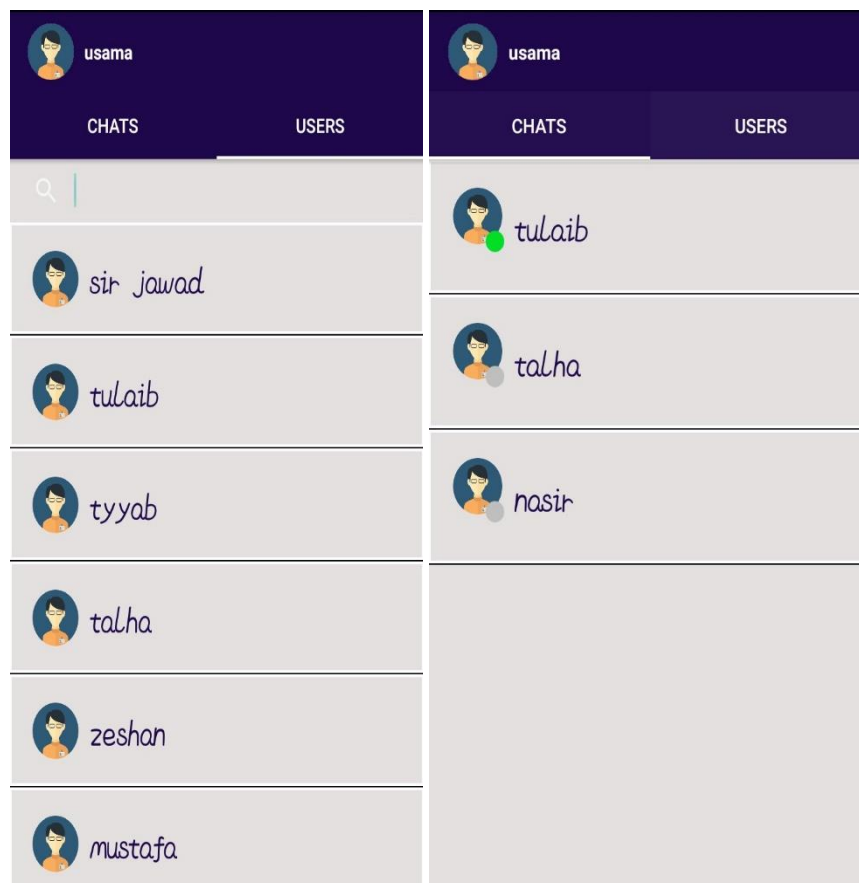
Enter your message

Send

Part 10: FMT Chat

By clicking on fmt chat from your dashboard you will go to FMT chat their two tabs 1st is chat and other for all the user using this app you can send your SMS to the users.

In chat tab you can view the user you send the message and here you will also check that the message is seen by user or not. If you will receive any new message a notification form FMT chat will be appear on your mobile screen and how many messages are unread shown on your chat tab.



Appendix B: Administrator Manual

Dashboard:

In the admin dashboard there are four tabs first one is tutor second one is students third one is alert and fourth one is request status on clicking first step admin show all the tutors who approved by the admin on clicking student tab admin can view all the student using the fmt application on clicking alert admin can view all the messages are complain from the user of fmt and on clicking 4th tab admin can view new tutor request for improvement tutor cannot be live until admin cannot approved them.



Tutors:

List of all approved tutor here admin can view delete or send sms to tutor.



Request Stats:

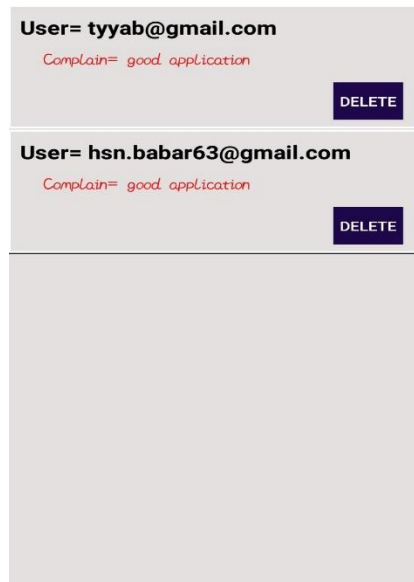
New tutor request for approval until admin cannot approve their profile will not be live to students after activate tutor profile will be live.

The screenshot shows a form for managing tutor requests. It includes the following sections:

- Contact Info:** 03119839391
- Address:** Lahore
- Qualifications:** bscs
- Subject you can Teach:** mad
- Tutor Photo:** A photo of a man with glasses and a beard, wearing a black shirt, sitting at a desk.
- Activation Controls:** Two radio buttons labeled 'Activate' and 'Deactivate'.
- Save Button:** A large purple button labeled 'Save'.

Alert:

Here admin can view all the messages from FMT user's admin view the message and delete this message.



Appendix C: Information / Promotional Material

We promote our product through Digital marketing

C.1. Visiting Card



C.2. Broacher

What's in You...!
and diversified range of benefits including but not limited to Find my tutor Solutions Offers very attractive

Find my tutor architects and develops enterprise-class Mobile, Web, Social and Big Data solutions for some of the world's largest companies from variety of industries.



FIND MY TUTOR
Where learning never ends





Share your detailed resume at
job.lahore@findmytutorsolutions.net

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Our Mission

- Enhance the quality of learning and teaching.
- Meet the learning style or needs of students.
- Improve the efficiency and effectiveness.
- Improve user-accessibility and time flexibility to engage learners in the learning process.

The main objective of this project is to develop a mobile application platform for the parents and tutors to interact, hire and learning among each other.

This application allow the all tutors register and gather within network to form a community that allow easier access by parents at one stop searching for new tutors.

Besides, the forum will act as a student, parent and tutor gathering community to share information, thought and etc.

Our Vision

The main objective of this project is to develop a mobile application platform for the parents and tutors to interact, hire and learning among each other.

This application allow the all tutors register and gather within network to form a community that allow easier access by parents at one stop searching for new tutors.

Besides, the forum will act as a student, parent and tutor gathering community to share information, thought and etc.







Appendix [no.]: Questionnaire

Parents:

Question:

- 1) I want access tutor searching application through mobile devices such as smartphone and tablet.
 - Agree
 - Neutral
 - Disagree
- 2) I think finding tutors in my nearby housing area are difficult.
 - Agree
 - Neutral
 - Disagree
- 3) I think that tutor searching application better free of charge, without any hidden fee for me.
 - Agree
 - Neutral
 - Disagree
- 4) I will invest on my children by sending them to extra tuition class after school.
 - Agree
 - Neutral
 - Disagree
- 5) I think my children weaker subjects area better go for extra tuition class after school.
 - Agree
 - Neutral
 - Disagree

6) I want to know my children performance during the tuition class.

- Agree
- Neutral
- Disagree

Students:

Questions:

1) I want to access tutor searching application through mobile devices such as smartphone and tablet.

- Agree
- Neutral
- Disagree

2) I think finding tutors at my nearby area is difficult.

- Agree
- Neutral
- Disagree

3) I think tutor searching application is better as it is, without any hidden fee or charges.

- Agree
- Neutral
- Disagree

4) I need extra tuition class after school due to huge burden of syllabus.

- Agree
- Neutral
- Disagree

5) Currently available applications similar to FMT application helps you.

- Agree
- Neutral
- Disagree

Tutors

- 1) I want platform where I remotely get home tuition without involvement of third person.
 - Agree
 - Neutral
 - Disagree
- 2) Do you want an application which provide you appropriate and nearest home tuition in your nearest area.
 - Agree
 - Neutral
 - Disagree
- 3) I think it better the application have feature to contact student and their parent.
 - Agree
 - Neutral
 - Disagree
- 4) Do you think FMT application will make a better future for you?
 - Agree
 - Neutral
 - Disagree
- 5) Currently available applications similar to FMT application helps you.
 - Agree
 - Neutral
 - Disagree

Reference and Bibliography

Reference and Bibliography

[1] MANDAL, B. (2016). TUTOR FINDER APP (Doctoral dissertation, University of Technology).

