



Independent University, Bangladesh

## **Mobile Application Development of “Your Lawyer” at Aveneur Solutions**

An undergraduate internship report submitted by

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Under the guidance of

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Independent University, Bangladesh

In consideration of the partial fulfillment of the requirement for the degree of

BACHELOR OF SCIENCE in Computer Science

Department of Computer Science and Engineering

SPRING 2021

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## **Attestation**

I understand the nature of plagiarism, and I am aware of the University's policy on this. I certify that this is an original work by me during. However, following internationally accepted academic guideline of using others written work and / or software (in the form of code) in my University project is properly cited if used in any part of this work.

A rectangular box containing a handwritten signature in dark ink. The signature appears to be 'Rabbi' in a cursive script.

Signature:

Name: Mohammad Azizul Haq Rabbi

## Acknowledgement

First of all, I would like to thank almighty Allah, for his grace in accomplishing my internship report timely.

I would like to express my gratitude to the Faculty of Computer Science and Engineering department to keep internship credit in the curriculum of the graduation program and give me a scope of tasting the flavor of industry-oriented tasks and the field of work with my interest. I would like to thank specially and heartily to my supervisor, Mrs. Sabrina Alam, Lecturer, Department of Computer Science and Engineering, Independent University, Bangladesh, who encouraged and directed me with her continuous guidance, invaluable instructions, stimulating suggestions and thoughtful advice during pursuing this internship and preparation of this report.

I am also thankful my supervisor Ashiqur Rahman, stack Developer, Aventure Solution. I feel proud and gratified that I was always held the under supervision of the Mobile App Development team and got advices directly from Ashiqur Rahman.

I am also indebted to the employees of Software development team and also specially Wasif M. Chowdhury sir, CEO, Aventure Solutions who gave me immense support while working. Moreover, to prepare this report and other documentation regarding Internship Report and else I would show appreciation to all the members of TehTrioZ team, who always advised me and helped me through hands and pens. Moreover, I must mention the wonderful working environment and group commitment of this organization that has enabled me to deal with a lot of things.



Mohammad Azizul Haq Rabbi

June, 2021

Dhaka, Bangladesh

# Letter of Transmittal

21th May, 2021

Mrs. Sabrina Alam

Lecturer,

Department of Computer Science & Engineering,

School of Engineering & Computer Science,

Independent University, Bangladesh

**Subject:** Submission of Internship Report for the completion of Graduation.

Dear Madam,

I am hereby submitting my Internship Report, which is a part of the BSc. Program in Computer Science and Engineering curriculum. It is a great achievement to work under your active supervision. This report is based on, “Internship at Avenuer Solutions”. I have got the opportunity to work at Avenuer Solutions for three months, under the supervision of Ashiqur Rahman, Software Developer, Avenuer Solutions.

This internship has given me both academic and practical exposures. The internship has given me the opportunity to develop a network with the corporate environment. I tried to make this report as much informative as possible with the experience I have gained during my internship period. In order to prepare a well-organized internship report, I have followed the guidelines and described the required fields with sufficient details. I, however sincerely believe that this report will serve the purpose of my internship program.

I shall be highly obliged if you are kind enough to receive this report and provide your valuable judgment. It would be my immense pleasure if you find this report useful and informative to have an apparent perspective on the issue.

Sincerely Yours,

Mohammad Azizul Haq Rabbi

ID#1610049

Department of Computer Science

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## **Abstract**

This report shown about the activity of mobile app developed by Aveneur Solution and my contributions to their project. The project stated with different categories, firstly Login and Register part, this part done my me. If person don't register then he should register, for register he needs to input his/her number and password then otp send to the number then he input otp ifotp match then he easily signup the lawyer apps. Then he shows the interface of the mobile app. First page customer can easily find a district wise lawyer. If he has any question, he can easily ask. And also, everyday customer gets law tips. And also, our top-class lawyer is available for 24/7. This report mainly has been documented based on my overall work in the company as an intern.

## Evaluation Committee

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Name

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Supervisor

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Name

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Internal Examiner

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External Examiner

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Name

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Convener

## **Table of content**

Attestation.....	2
Acknowledgment .....	3
Letter of Transmittal .....	4
Abstract.....	5
Evaluation Committee .....	6

## **Chapter 1**

1.0 Introduction.....	10
1.1 Background.....	11
1.2 Objective.....	11
1.3 Scope of the project.....	11
1.4 Company profile .....	11
1.4.1 Vision, mission & objective.....	11
1.4.2 Corporate divisions .....	13
1.4.3 Details of the product lines or services.....	12

## **Chapter 2**

### **Literature Review**

2.1 Relationship with Undergraduate Studies.....	15
2.2 Related works.....	15

## **Chapter 3**

### **Project Management & Financing**

3.0 Work Breakdown Structure.....	16
3.1 Process/Activity wise Time Distribution .....	17

3.2 Gantt Chart.....	18
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## Chapter 4

Methodology .....	19
4.1 SYSTEM DEVELOPMENT METHODOLOGY (SDLC).....	19
4.2 Waterfall Model .....	19
4.3 Feasibility study .....	20
4.4 Requirement's analysis .....	20

## Chapter 5

5.1 System Analysis.....	20
5.1.1 Six Element Analysis	
5.1.2 Feasibility Analysis	
5.2 System Design .....	21
5.2.1 Rich Picture	
5.2.2 Use Case Diagram	
5.2.3 Functional and Non-Functional Requirement	

## Chapter 6

6.1 Testing .....	24
6.1.1 Functional testing .....	24
6.1.2 System Testing .....	24
6.1.2.1 Recovery Testing	
6.1.2.2 Acceptance Testing	
6.1.2.3 User Acceptance testing	
6.1.3 Unit Testing .....	25
6.1.4 Test Data .....	25
6.2 Test Results .....	25

## Chapter 7

### Project as Engineering Problem Analysis

7.0 Sustainability of the Project/Work.....	26
7.1 Social and Environmental Effects and Analysis .....	26



7.2 Addressing Ethics and Ethical Issues .....	26
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## **Chapter 8**

### **Lesson Learned**

8.1 Problems Faced During this Period .....	27
8.2 Solution of those Problems .....	28

## **Chapter 9**

### **Future Work & Conclusion**

9.1 Future Works .....	28
9.2 Conclusion .....	28
Appendix9A.....	29
Appendix9B .....	30

# **Chapter 1**

## **Introduction**

Bangladesh has a literacy rate of more than 50 percent and a population of more than 150 million. In the last two decades, the country has made significant economic progress by increasing its GDP growth rate to more than one per cent. It is argued that with the development of the IT sector, the country has a huge potential to jump into the industrialized economy. Because of Bangladesh's cultural acceptability, English language skills, analytical ability and bright trend in software development, a large number of educated and strong youth with good quality and natural skills have high potential to be a huge source of skilled human resources. A recent study found that the wage rate for IT professionals in Bangladesh is about half that of Indian IT professionals. However, the IT sector has not yet grown as expected. The country earned 33 million in 2009 by exporting software. Although export earnings from the software sector increased by 8 million compared to 2008, the share of software exports compared to 2006 was only 0.2 percent of the country's total exports (BASIS) 2010). The IT sector is mainly concentrated in Dhaka, the capital of Bangladesh. There is an IT cluster called IT Incubator Center, which was established in November 2002, where about 50 IT firms are now doing business.

Over the past few decades, Bangladesh's software and IT services industry has come a long way. It has matured. This industry no longer resides in the surrounding area. It has joined the mainstream. Not only is the industry making a significant contribution to national income, it is also playing a very important role in creating high quality employment for a large section of the country's young graduates.

## 1.1 Background

The law is part of your daily life and lawyers are trained to guide you through the legal process. A lawyer can help you buy a home, write a will, or sell a business. A lawyer can also help you if you get injured, if you are getting a divorce, or if you are charged with a crime. There are many people in Bangladesh they don't know their rights. That's the reason they face a lot of problems. When someone has been injured in an accident, choosing the right law firm to handle their case is a difficult undertaking. This Mobile-based real-time lawyer system will solve all these problems.

And also, many more reason people need lawyer. We designed this apps so that it can easily help people.

## 1.2 Objective

A project objective describes the desired results of a project, which often includes a tangible item. An objective is specific and measurable, and must meet time, budget, and quality constraints. ... To produce the most benefit, objectives must be defined early in the project life cycle, in phase two, the planning phase

- Automate the current system.
- To provide information about fees, appointment time, appointment date.
- To access victims list in the app from any place, so lawyers can schedule their plan accordingly.
- This mobile application must attract prospective clients.
- Educate visitors and help them to know about own rights and decide that apps are the right choices to solve their legal issues.
- To store data in the database for further reference or audit.

## **1.3 Scope of the project**

This Mobile-based lawyer apps will permit to register lawyers and victims. It also provides a login page after the registration process. It provides a different user interface with different functionality for lawyers and victims. This application solves the current lawyer system and provide better services. The main users of the project are to find the right lawyer. Using this application people can know their rights. Also, lawyers can able to see how many victims are coming, how many appointments are done, how many appointments pending. The system provides information about the lawyers.

### **1.4 Company profile:**

Avenueur Solutions is an aesthetic-first web design, digital content and software development company - serving businesses both large and small. We are a creative IT company that provides a diverse set of services tailored to your specific needs. We also promote innovation, develop ideas into reality and provide opportunities for businesses to grow. Their main services are to set up and maintain business dashboards, data mining, and reporting. They also provide the full range of consultancy and implementation of Cloud Computing Architecture by designing highly fault-tolerant, scalable, secured, compliant, and cost-effective solution according to need.

#### **1.4.1 Vision, mission & objective:**

##### **Mission**

Avenueur Solutions mission is to provide the highest-grade, bespoke web, application, software, and technological solutions to its valued client base in an affordable and time-efficient manner. They provide services to all types of companies from solo bloggers to large enterprises.

##### **Vision**

We are on a journey to expand and grow into a ubiquitously trusted name in the fields of digital design and technology. In time, Avenueur Solutions shall span the globe to provide its digital development and technology transfer services in major markets of the world over, such as the

United Kingdom, Singapore and the United States. The core values of the company shall always be integrity and social responsibility.

## **Objective**

### **Top products, top performance, and top service.**

Avenueur Solutions customers' success is our declared goal and utmost concern. Therefore, they make great demands on every detail of our work in all sections of our services.

They offer our customers

- high-performance, user-friendly software solutions
- first-class, proven hardware products and
- comprehensive individual services

### **Treat each other with responsibility and respect.**

Our everyday work both within and outside the company is characterized by mutual respect. The resulting positive attitude is the basis for all issues related to personnel management – at all hierarchical levels.

We expect and encourage

- a high level of self-motivation,
- constructive criticism,
- individual responsibility,
- a pleasant working environment as well as
- continuing education.

### **We continue to develop ourselves and our performances.**

The services provided by us have a significant influence on the central business processes of our customers. Therefore, we conduct strict internal control to ensure a high level of transparency and gapless traceability of all work processes.

We continuously control and optimize the effectiveness and efficiency of our actions to be more productive at work and to further improve the quality of our job performance at the same time.

### **We secure our leading position every day – thereby maintaining our independence.**

The quality and efficiency of our products and solutions and also our daily personal commitment has made us the market leader concerning ERP solutions for the packaging industry. To maintain this status and ensure the future success of our company, we pursue clear strategic objectives. Together we want to

- create new jobs
- maintain existing jobs,
- foster innovations and
- plan and shape the future.

Updates at regular intervals and ongoing maintenance ensure the functioning of our IT solutions while safeguarding the customers' investments at the same time. Only satisfied and successful customers help us to reach our most important strategic goal: to maintain and expand our corporate success and our financial and economic independence.

## **1.4.2 Corporate Division**

A corporate division, also known as a business division, is a discrete part of a company that may operate under the same name and legal responsibility or as a separate corporate and legal entity under another business name.

## **1.4.3 Details of the product lines or services**

### **Design: Visual service**

Their designing team of creative minds explore new ideologies through the challenges our clients provide us. We use various visualization tools like the ones provided by Adobe Creative Suite to meet the need of our clients.

### **Develop:**

At Aveneur, they provide high quality Software's and Solutions through Test Automation, Quality Assurance and Agile Processes. Their success in Software/Application development is achieved through effective collaboration between the Stakeholders. They tackle any changes made through our effective set of Procedures to overcome the challenges in an organized way. They encourage

external participants to review our projects to bring out a diverse perspective of the software to ensure quality.

They Use HTML, CSS, JavaScript, React, Typescript, Dotnet core and Flutter.

**Innovation:**

- Business consultancy
- Security System
- Cloud Migration
- Data Mining
- AI Chatbot Integration
- IOT Services
- Company Training & Certifications

# Chapter 2

## Literature Review

A literature review or narrative review is a type of review article. A literature review is a scholarly paper that presents the current knowledge including substantive findings as well as theoretical and methodological contributions to a particular topic. Conducting a writing audit includes collecting, assessing and analyzing distributions that relate to you inquire about question. A literature review is a survey of scholarly sources on a specific topic. It provides an overview of current knowledge, allowing you to identify relevant theories, methods, and gaps in the existing research. The literature review strategy is an examination of data on particular subject. It is looking into what is known, and not what is expected. It points to form the ultimate, exact representation of the knowledge and research-based hypothesis accessible theme. This strategy is aiming to be utilized due to require of gathering and preparing hypothetical base. I am aiming to utilize diverse books and articles too other sources like instructional exercises, gatherings and related program

### 2.1 Relationship with Undergraduate Studies

As I am student of Independent University, Bangladesh in the department of computer science. I completed all off my course then offered by my University. The course and syllabus in a very efficient way which helped me a lot to accomplish my project. Database management system, Web application, Mobile application, System analysis and design, Software Engineering, Software Quality and testing, C++, Java, data Structure all of these courses helped me to documented and implemented my task in internship program.

### 2.2 Related Works:

**Programming** – To build the mobile applications I need to program. In University I learn different programming language like java, C++, Python. That helps to understand Dart language. I think every language is similar.

**Structuring Data** – A project has lots of different category's data which need to be structured properly. In this project, Data Structure and Database management system courses' knowledge helps me to structure this project data in well manner.

**Algorithmic programming** – To implement any logic need to choose write approach which also called efficient Algorithm. The knowledge of Algorithms course is applied here.

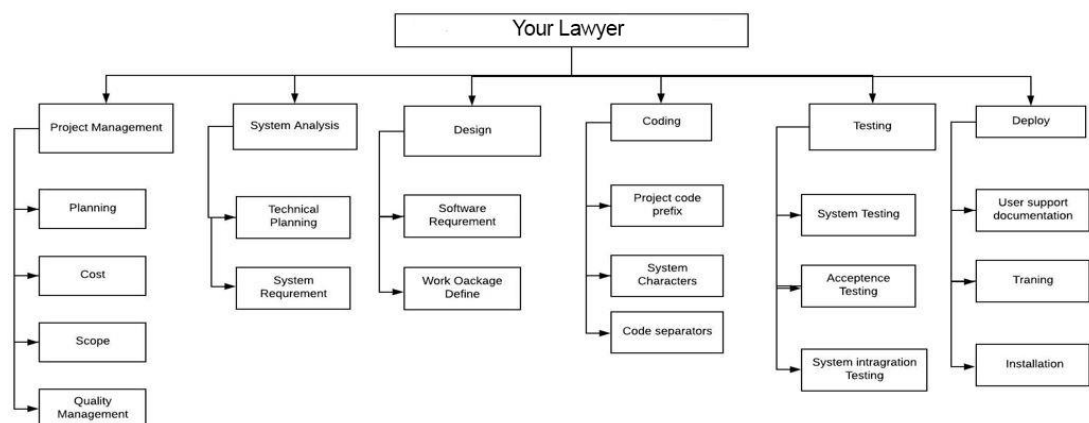


**Project Management** – To complete any project needs a proper management in workloads. The knowledge of Software engineering course is applied here. I learn also software marketing in this course. That's helps me a lot to manage project.

**System Analysis** – Every system needs to be analysis. Hence, the knowledge of System Analysis and design is applied here.

## Chapter 3

### 3.0 Work Breakdown Structure



### 3.1 Process/Activity wise Time Distribution

1. Activity wise days of learning			
		Expected Days	Considered Days
Learning Process	25%	10	13
Installment	10%	7	7
Requirement	15%	10	12
Design	20%	7	10
Implementation/coding	15%	30	30
Testing and deployment	15%	10	12
	100%		

**Table 3.1:** Activity Table

## 3.2 Gantt Chart



# Chapter 4

## 4.0 Methodology:

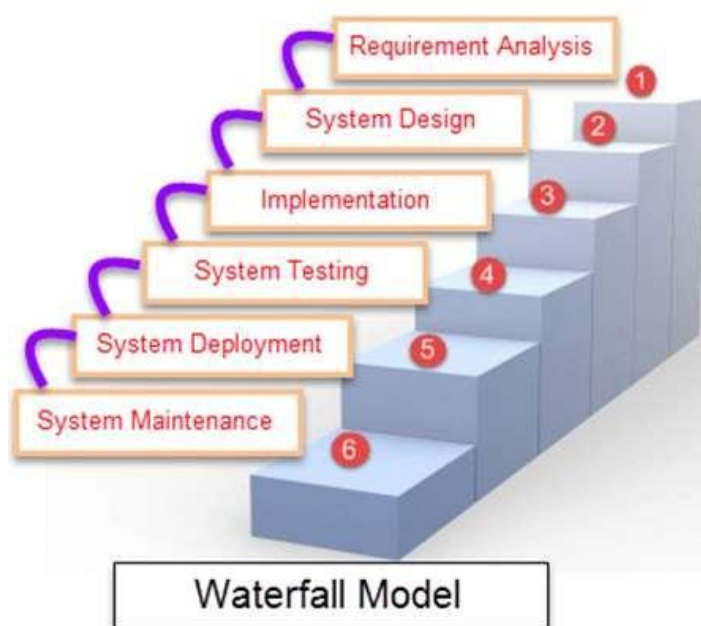
The term methodology means "the analysis of the principles of methods, rules, and postulates employed by a discipline"; "the systematic study of methods that are, can be, or have been applied within a discipline"; "the study or description of methods".

## 4.1 SYSTEM DEVELOPMENT METHODOLOGY (SDLC)

The system development life cycle, known as the SDLC, is the industry-standard approach to managing phases of an engineering project. Think of it as the equivalent to the scientific method for software development and other IT initiatives. The common breakdown of the SDLC includes seven phases that trace a product or project from a planned idea to its final release into operation and maintenance. the proposed system input and output, users and system development tools.

## 4.2 Waterfall Model

Waterfall Model is a sequential model that divides software development into pre-defined phases. Each phase must be completed before the next phase can begin with no overlap between the phases. Each phase is designed for performing specific activity during the SDLC phase. It was introduced in 1970 by Winston Royce.



### **4.3 Feasibility study**

Here, we carried out a study to gain an understanding of the customers' current system and problems experienced in this system through interviews, observations, participations etc. We used the obtained data to determine the viability of the system being proposed in terms of technical, economic and social feasibilities.

### **4.4 Requirement's analysis**

Requirement Gathering and analysis – All possible requirements of the system to be developed are captured in this phase and documented in a requirement specification document. System Design –

The requirement specifications from first phase are studied in this phase and the system design is prepared.

## **Chapter 5**

### **5.1 System Analysis**

#### **5.1.1 Six Element Analysis**

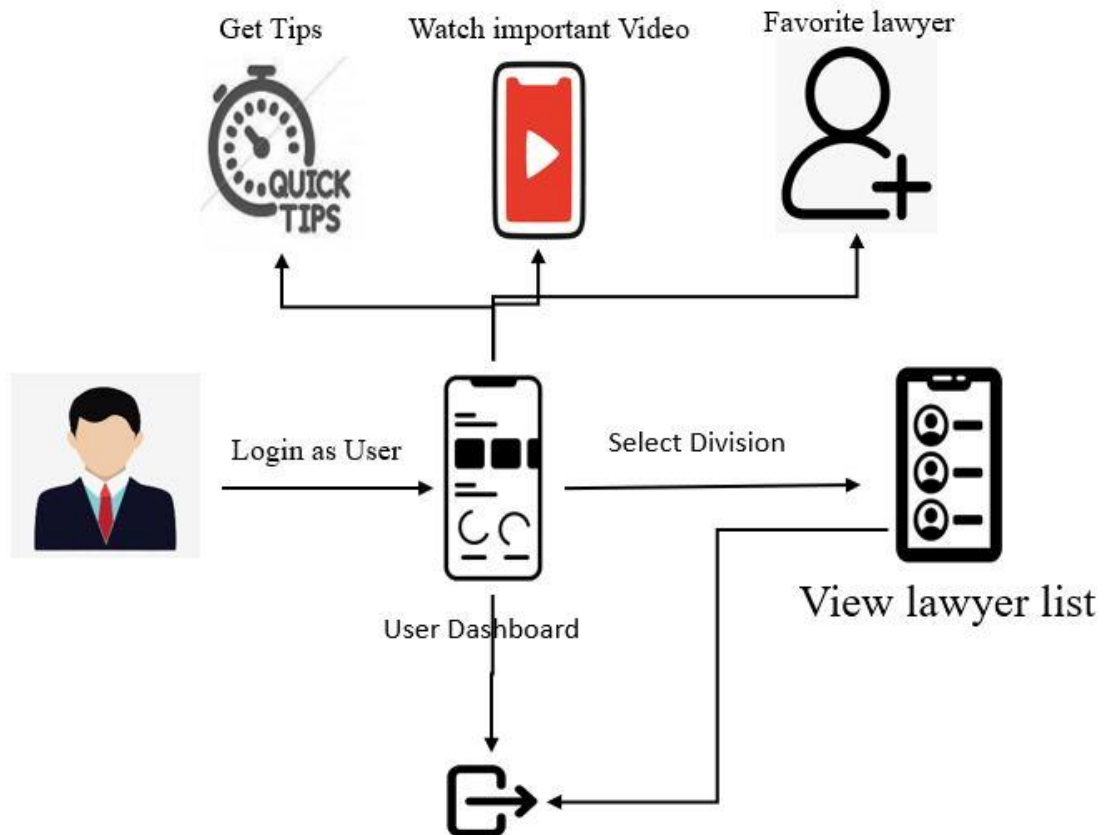
First, the “six-component” analysis method for terrorist activity based on social networks is proposed in this paper, creating various sub-networks according to the interrelationships between the six components - people, organizations, time, location, methods and events.

#### **5.1.2 Feasibility Analysis**

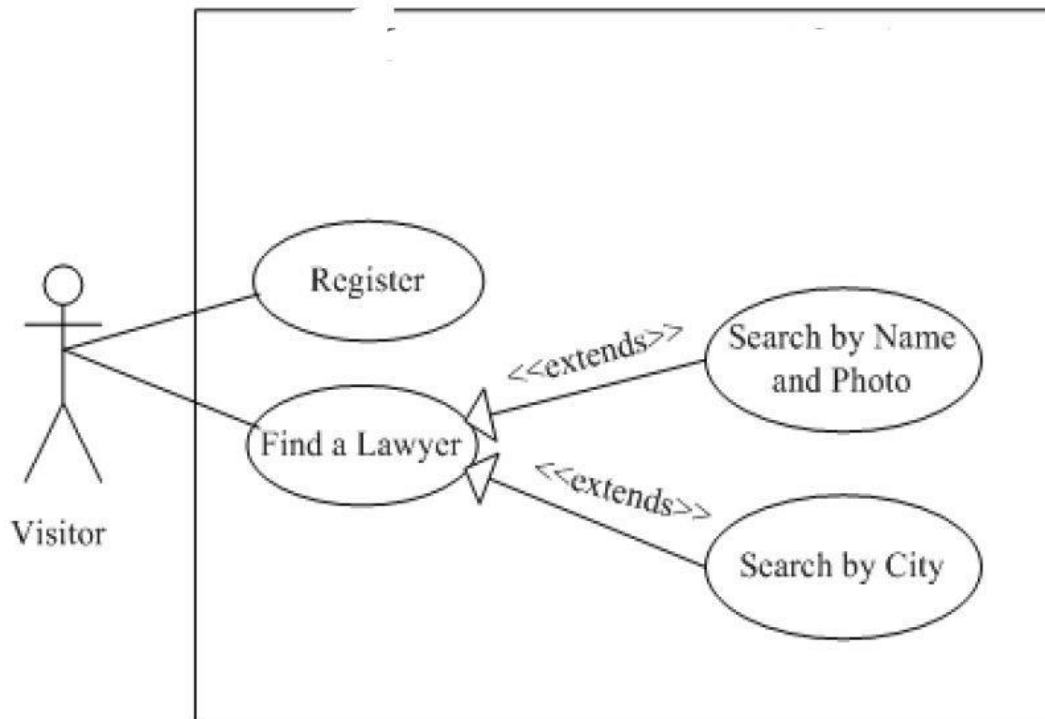
Feasibility study is an analysis that takes into account the economic, technical, legal and scheduling considerations to determine the probability of successful completion of projects related to the success of the project. Project managers use feasibility studies to test the benefits and understandings of undertaking projects before investing a lot of time and money in the project

## 5.2 System Design

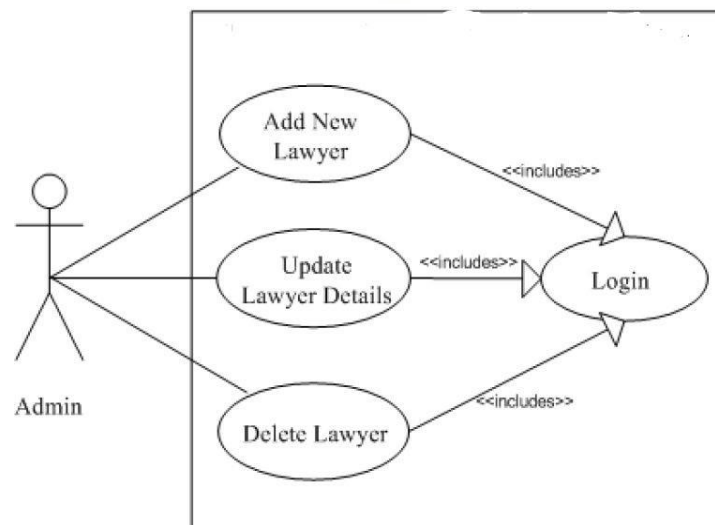
### 5.2.1 Rich Picture



### 5.2.2 Use Case Diagrams



**Figure: Use Case Diagram for Visitor**



**Figure: Use Case Diagram for Admin**

## 5.2.3 Functional and Non-Functional Requirements

### Functional Requirements

This section describes different functional requirements of the system in terms of the functions/features the system should provide.

1. Login for Admin (by Admin)
2. Registration of Lawyer (by Admin)
3. Update details of Lawyers (by Admin)
4. Delete Lawyer (by Admin)
5. Login for Lawyer (by Lawyer)
6. Registration of Clients (by Lawyer)
7. Update details of Clients (by Lawyer)
8. Delete Client (by Lawyer)
9. Add case details of Clients (by Lawyer)
10. Update case details of Clients (by Lawyer)
11. Delete Cases of Clients (by Lawyer)
12. Login for Client (by Client)
13. View/ Download Case Details (by Client)
14. Registration as Visitor of Website (by Any New User)
15. Finding Lawyers (by a registered Visitor)

After being logged in, an admin in this project can make the entries of the lawyers who register with the apps, can update details of lawyers or delete a lawyer. Only after a lawyer is registered by the admin, he can further carry out his tasks with his clients. For the first time a lawyer registers himself, he gets an id and password from the admin which he uses throughout the time.

After being logged in, a lawyer can register his clients, update client's details, delete a client and can store all the case details of his clients in the database. He has the previous details of the case which can help him plan for the further evaluation of the case. Also, the cases that have been completed accidentally (due to withdrawal, death, etc.), or those have been solved by him are stored in the database which he can use as a reference for the future cases. A lawyer can also update the case details of his clients and can also delete some cases if desired. After being logged in, a client can see his case details and all the transactions carried out during the case. He can also find out new lawyers through this apps. New visitors can't visit this apps.

### Non-functional Requirements (NFR):

1. The system should not disclose any private information or message to anyone else.
2. The system will have backup server.
3. User must have easy password accessible to the system.
4. The system will have bug report system for user.
5. The system should have two step authentications for login.



The system will have small development working on solving bugs reported by the user

## **Chapter 6**

### **Result and Test Analysis**

#### **6.1 Testing**

Testing is the process of verifying and validating the system for the conformance with specification and meeting the customer's requirements. The objectives of testing are to ensure that the system programs are error free, guarantee the system end users can interact with the system well and ensure that the components of the system interface are working well

##### **6.1.1 Functional Testing**

The purpose of functional testing is to ensure that the program performs all the functions that were originally specified, that all the input is correctly accepted. It relates to the whole system and does not require a technical understanding of the system. All the functions of the system as originally specified are systematically tested to ensure that nothing has been accidentally omitted or misinterpreted. A positive attempt is made to anticipate errors than an inexperienced user might make, and tests made to check the effect of such errors and ensure that they do not result in incorrect actions or bad data being stored in the database.

##### **6.1.2 System Testing**

This is where the system is checked whether it has met the user requirements and performs as per expectations. The following are the tests to be used. On completion of the whole system, each of it is tested to ensure no errors have been introduced. The system is tested with a realistic amount of test data, the system tested with about 50 records in each of the main tables.

##### **6.1.2.1 Recovery Testing**

Recovery testing can be carried out to determine what happens, for example if there is a power failure in the middle of data entry. Is the whole database corrupted or not?

### **6.1.2.2 Acceptance Testing**

The user is invited to test the system to ensure that it fulfills the stated objectives. The tester observed this testing and not stop the user from mistakes. The system should cope with unexpected user behavior.

### **6.1.2.3 User Acceptance testing**

This is testing of the system by the user department after the system has passed the systems test

### **6.1.3 Unit testing**

After the parts of the system are completed, they are first tested. All the new hardware, procedural manuals and all system interfaces tested to ensure that they meet the required standards.

### **6.1.4 Test Data**

The purpose of test data is to verify and make sure that the system is operating well and according to the standards set. It involves checking the new system if it is working correctly. It is tested in modules to establish if there is any problem in any module. This is whereby each module is tested on its own. While testing entries inputted as they are so as to be acceptable in the database else errors will occur. As an example, patient's phone no should be in numbers, otherwise the field won't accept it.

## **6.2 Test Results**

After completing test process, we found some defects while running the software. Some issues came up while retrieving the data from the firestone database. But we passed in most of the test. There was also some issue with responsiveness but after a few tests the issue got resolved. The main task of this project is to record appointments and approve those appointment from assistant's side and viewed that updated data table from doctor's side. Fortunately, these functionalities run without any flaw. After getting the errors and defects, we tried to go over through all the problems and fix that.

## **Chapter 7**

### **7.1 Sustainability of the Project/Work**

Now a days, In Bangladesh most of the people from all classes drastically use smartphone. Smartphone and internet make people life easier. People are now searching for an easy solution of every situation which reduce the daily life hassles. So, people get more dependent into online based solutions. The growth and analysis suggest that the use would increase even further in the future. This change in the social atmosphere, it is safe to believe that system is highly sustainable. It is very likely that in the near future people would be more interested to meet their everyday needs through online activities. The app advocates for such a change, securing it sustainability

### **7.2 Social and Environmental Effects and Analysis**

We all know how busy life leads a lawyer with a tight schedule. They can't plan anything properly for their tight schedule. If they able to know before, how many Clint are coming, what is the time line of appointment, they can utilize their time more efficiently. They can make proper plan for their personal life according to the schedule. The most important effect of the lawyer System on a social level is its time-saving quality. Time is priceless and valuable and the usage of this app make user life hassle free. On an individual level, the effect has a great positive outcome. The app has also positive effect on the environment as well. It will make our environment clean and less polluted.

### **7.3 Addressing Ethics and Ethical Issues**

The Appointment System does not have any ethical threat or risk. The Clint and lawyers are required to provide some general information during their registration. The client needs to provide some basic information for their appointment. All these data are stored safely and securely in database. Only registered user with authentication can access the information. The privacy of the information is strictly maintained.

# Chapter 8

## 8.1 Problems Faced During this Period

During Internship period in Avenours Solutions. Those challenges were new for me. When I selected for viva. I was little nervous in this time. But when I talked to the CEO of the company, I feel confident. When I hear that they are also working on android applications development. I interested on it. Because they use flutter framework for build android app. First few days I have faced some challenges. But I have taken this challenging time as a lesson of my life. These difficult situations and new experiences will help me to sustain in the corporate world in future.

In my opinion 3 months are not proper for adapt and understand the overall work flow and operations of a company which is involved with so many different projects and different department. For lockdown our office in closed since last of April. In this time, we work from home. It was little challenging but we done us in online. In this case we use Discord and google classroom for meeting. Is was less time consuming but some problem was there.

It was very difficult for me to maintain work progress as like as other team members. Since they are very experienced and good at their work. I had to work like a full-time employee as my office time was 9:30 am to 5:30 pm. Since I don't have any experience that's why it was challenging for me but I enjoy it.

My work skill has improved day by day. My supervisor Mr Ashikur Rahman Rohan helps me lot to knowing the working environment. In free time I learn flutter from online. When I face problem instant, I discuss with my supervisor. That helps a lot to learn Flutter.

## **8.2 Solution of those Problems**

When I found any problem then my supervisor helped me and solved my problem/At the same time if I failed to understand then I mailed my supervisor and I joined google meet then he solved my problem.

# **Chapter 9**

## **9.1 Future Works**

We will Insha Allah develop our apps. We will add new features so that users can benefit. We will add cost of lawyer and also reminder so that if any users need reminder for his case it can remind him. Also, we can do-

- Lawyer can register
- Lawyer service and cost of service
- Client can negotiate
- user friendly

## **9.2 Conclusion**

### **Conclusion & implication**

In my internship I worked on a future mobile application. In lawyer system maintaining all the manually is very difficult. While working on lawyer mobile application our boss gives separate task of our members. My task is to complete the signup form and that connect with mobile and send on time password on the mobile phone I completed my task on time.

This application helps general people to find a lawyer easily and also in location-based lawyer can easily found. At the same time a lawyer can easily signup and write his/her details so that any kind of people can easily find them. If any customer has any complaint they can easily complain in the

complaint section Bangladesh is a regenerative country, which is growing, making its presence in the global forum. Moreover, it is one of the countries that are looked upon as the next growth center. So, let us be conscious about the fact that there is a regenerative Bangladesh, creative Bangladesh, path breaking Bangladesh. Hopefully IT sector is the next opportunity for Bangladesh.

## Appendix

### Appendix 9A

Date and Time	Task
28-02-21 16:56	Get internship Offer letter
03-03-21 9:00	Joining day for Aveneur Solutions and familiar with the working environment
1st week	Starting to learn what is flutter and why flutter Download flutter Code Development tools Setup
2nd week	Introduction to the Dart Programming Language Control flow and Functions in dart
3rd week	Object oriented Programming Introduction Object oriented Programming Intermediate Object oriented Programming Advanced
4th week	Data Structures and Collections in Dart
5th week	Building Flutter Apps Flutter Fundamentals
6th week	Flutter Intermediate Concepts - Navigation, List views
7th week	Understanding Themes in Flutter
8th week	Connecting to the World - Networking in flutter
9th week	Starting Project: Read project requirements of "Lawyer App"
10th week	Starting programming part
11th week	Complete first task (Login and Auth in Flutter)
12th week	

## Appendix 9B (UI Screenshots)



The screenshot shows a mobile application interface for 'YOUR LAWYER'. At the top is a red circular logo with a white 'Y'. Below the logo is the text 'YOUR LAWYER'. There are two input fields: one for a phone number with a '+88' prefix and another for a password with an eye icon for toggling visibility. Below the password field is a link for 'Forgot your password?'. There are two red buttons: 'SIGN IN' and 'REGISTER'. Below these buttons is a link for 'For Anonymous Queries' with the text 'CLICK HERE' in red. At the bottom is a cartoon illustration of a man with glasses and a mustache, with the text 'मॉडल 100' and 'POWERED BY LEGALX' below it.

**Y**

**YOUR LAWYER**

+88 Phone Number

Password 

Forgot your password?

**SIGN IN** **REGISTER**

For Anonymous Queries **CLICK HERE**

  
मॉडल 100  
POWERED BY LEGALX

