



# **An Undergraduate Internship/Project on Forex Information System for XactIdea Ltd.**

By

**Nazia Afrin**

Student ID: 1620800

**Summer, 2021**

Supervisor:

**Sheikh Abujar**

**Lecturer**

Department of Computer Science & Engineering

Independent University, Bangladesh

**September 6, 2021**

Dissertation submitted in partial fulfillment for the degree of Bachelor of  
Science in Computer Science

Department of Computer Science & Engineering

**Independent University, Bangladesh**

# Attestation

This is to confirm that the report was done by me, Nazia Afrin (ID:1620800), and that it was submitted as part of the requirements for the degree of Computer Science and Engineering from Independent University, Bangladesh (IUB). It was finished under the supervision of Sheikh Abujar, Sir. I also attest to the fact that all of my work is authentic, as I learnt throughout my internship. All information sources utilized in this research and report have been properly acknowledged.

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Signature

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Date

Nazia Afrin

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Name

# Acknowledgement

First and first, I would want to thank Almighty Allah for providing me the endurance and capacity to work hard, for allowing me to write this report, and for allowing me to perform my internship at XactIdea Ltd., one of Bangladesh's top software companies. My parents, too, for their unwavering love and support, which has nourished, fostered, and prepared me for this task. I'd like to express my gratitude to Sheikh Abujar, Lecturer, Department of Computer Science Engineering, Independent University of Bangladesh, for his essential assistance, patience, time, constructive criticism, and insightful counsel throughout my internship and the writing of this report. Then I'd want to thank our senior software engineer, Mr. Shahidul Islam, for allowing me to finish my internship at XactIdea Ltd., as well as my team mates for their advice and support during this three-month internship program. I am grateful to all of my Team members for the useful knowledge they have offered in their various professions. I appreciate their cooperation and assistance throughout my internship.

# Letter of Transmittal

September 6, 2021

Shekh Abujar

Lecturer

Department of Computer Science and Engineering Independent University, Bangladesh.

Subject: Internship Report submission Summer, 2021.

With due honor and respect, I, Nazia Afrin, from Summer 2021, Section 7, would like to submit my Internship report. This report is created to notify you that my internship program and report have been finished. My internship began on June 7, 2021, and ended on September 2, 2021. At XactIdea Ltd, I finished my internship.

This report is based on my internship experience and the work I completed at XactIdea Ltd. My main aim for the internship was to get experience in all of the company's technology-related sectors, such as research and development, documentation, content writing, and software development, as well as to learn about software development processes and practices.

I discovered that I acquired and used a lot of new skills and technologies throughout my internship at XactIdea Ltd. The firm is made up of a small web development team that works together to learn, contribute, and innovate.

This report, I feel, will be extremely fascinating and will meet your expectations. I attempted to produce a detailed report using my best efforts. If you accept this report, I will be thankful, and your thoughtful consideration would be greatly appreciated.

Sincerely,

Nazia Afrin (1620800)

# Evaluation Committee

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# Abstract

The purpose of this research was to investigate and relate numerous functional, operational, and technological requirements for a dedicated website for Xactidea Ltd's Forex Signal dissemination services, dubbed the "Forex Information System." This system will make it easier for a financial firm in Australia to run its web-based Forex Signal services. The objective of this system is to create a website for people who want to trade on the foreign exchange market. Members get real-time trade notifications through email or text messages when it is time to make or exit a trade, allowing them to optimize profit on each transaction. The project was created with a distributed architecture and data serialization in mind. MY-SQL Server structures, HTML, CSS, PHP, JQUERY, JAVASCRIPT, and BOOTSTRAP were all used to construct the user interfaces. Database connectivity is planned using the "SQL Connection" technique. For effective application, security and data protection needs have been given a wide variety of alternatives.

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# Chapter 1

## Introduction

### 1.1 Overview/Background of the Work

As our company is one of the leading and fastest growing Software Development and IT solution company recently it started a new web application project named Forex Information System(FIS).The main goal of our project is foreign exchange trading.The purpose of this system is to develop a website for the people who want to trade on the foreign exchange market.It also provides a time accurate and cumulative profit oriented forex signals. We make sure that you consistently make a profit with our live signals and always come out with a positive balance. The system provides real-time trade alerts to members via email or text messages when to enter or exit a trade, maximizing profit for a particular trade. It is an online system through which members can view available services, register, log in and contact to receive the services. This application can extract information from members by filling their details. The proposed system is fully integrated online system. It automates the process in an effective and efficient manner. A member can receive multiple notification options from emails to SMS text messages. The system provides consistent forex signals and instant availability of trading results at the close of trading.

### 1.2 Objectives

Through this web based system application we can provide members with our insights, trades and analysis based on what we are doing with our money. They use their experience and knowledge to invest member's money intelligently. By using this application, newbies or no time to trade can make profits every time. We have built up our reputation as one of the top forex signals providers in the world with over 90It share the latest FX trading trends in your email and SMS to your phone number to keep you updated on what we are trading. It also update your account dashboard with the hottest trades so that you

know what is hot and making money. Our signals always include an Entry price, Stop loss and Take profit with 3 different levels. This enables you to minimize loss and optimize your profits as much as possible. When trading Forex, it is very important to have the information you need. Our team understands this fact very well. With this application, members can get the information they need as quickly as possible to stay one step ahead. For those who are new to Forex trading, the company has a team of experienced fund management experts, Forex trading and financial experts.

## 1.3 **Scopes**

- 1. Inbox Forex Signals: It share the latest FX trading trends in your email and SMS to your phone number to keep you updated on what we are trading. We also update your account dashboard with the hottest trades so that you know what is hot and making money.
- 2. Consistent Forex Signals: It has built up our reputation as one of the top Forex signal providers in the world with over 90
- 3. Real-Time Forex Update: The system constantly updates the data a member needs to make informed and quick decisions. These updates are cross-checked before delivery to members.
- 4. Risk Management Control: Our signals always include an Entry price, Stop loss and Take profit with 3 different levels. This enables us to minimize loss and optimize our profits as much as possible.
- 5. Forex Training: It offer a comprehensive Forex Trading Training Program that provides a solid foundation for maneuvering the trading market.
- 6. Fund Management: It have developed a robust and reliable funds management system with the help of experienced professionals where we grow your money for you.

# Chapter 2

## Literature Review

### 2.1 Relationship with Undergraduate Studies

CSE 303 Database Management System: This is the most basic course that helped us about the detailed coverage of the development process, database architectural principles, relational algebra and SQL using Oracle or SQL Server and database security, administration, distributed systems and so on. This was the course that taught me how to design and plan a project. CSE 203, Data Structures: This is the most basic course that helped us with the ideas of several data structures and their applications such as Stack, Queue, Linked List, Array, Pointer and so on. CSE 213, Object-Oriented Programming: In the developing industry most of the data is represented as an object. It also taught how to write modular programs which made codes less repetitive and more reusable. CSE 309, Web Application and Internet: This is the course where the development of web applications was taught. This course serves as a comprehensive overview of web technologies and their usage. Essential topics such as OSI TCP/IP architecture, Internet Routing, IP addressing Domain Name System will be covered. Discussions will be held on popular browsers, HTML and Cascading Style Sheet, HTTP, HTTPS, FTP, Client and Server side scripts, Scripting (JavaScript, AJAX, XML) with jQuery libraries, Web Servers (IIS, Apache). We learned to design dynamic websites using ASP.NET with SQL server and PHP with My SQL..It covered very important technologies that are highly in demand in the industry, such as HTML, CSS, JavaScript, jQuery, View Engines (Handlebars and embedded JavaScript), Node.js, Express.js, and MongoDB.

### 2.2 Related works

There are so many VIP Forex signal providers on the market and each come with their own pros' and cons.

FRN VIP: FRN VIP is now the 1 rated service on the market. This brand new but its

already stringing together an impressive run of wins. Its a great idea to be early on any investment.

Learn to Trade: It is the second Best Forex Signals provider currently available. Moving to the second spot after a few dominant months of winning signals in a row. They provide accurate signals directly via telegram, that are easy to utilize and come with full analysis.

MQL5: MQL5 is one of the main Forex MT4 resources available. Their marketplace specializes in Forex signals, expert advisors, indicators and much more, but today our focus is on the signals. In this area they have a much different approach than most commercial providers, because they allow anyone with Forex trading experience to provide signals. While this can scare off some potential clients, this does allow for a very diverse and unique network of traders that are judged solely on their performance and nothing else.

Fx Leaders: Fx leaders is a popular Forex signals provider run by Smart Financial Traffic LTD. They provide trade alerts to the community via mobile alerts, sound alerts and email.

# Chapter 3

## Project Management & Financing

### 3.1 Work Breakdown Structure

As a project manager, proper planning is crucial to setting clear expectations and keeping our team on task in order to complete our project on time and on budget. An organized work breakdown structure(WBS) can break down our large projects into smaller, allows us to decompose project into small manageable sections, also known as deliverables. Clearly defined deliverables are easy to assign, allow us to accurately estimate needed time and resources and track their completion. A work breakdown structure element maybe a product, data service or any combination thereof. also provide us the necessary framework, technical performance, manages plan, schedule, budget etc. For brainstorming and collaboration, it is the ideal tool for the team. In our WBS, we have used the top-down approach.

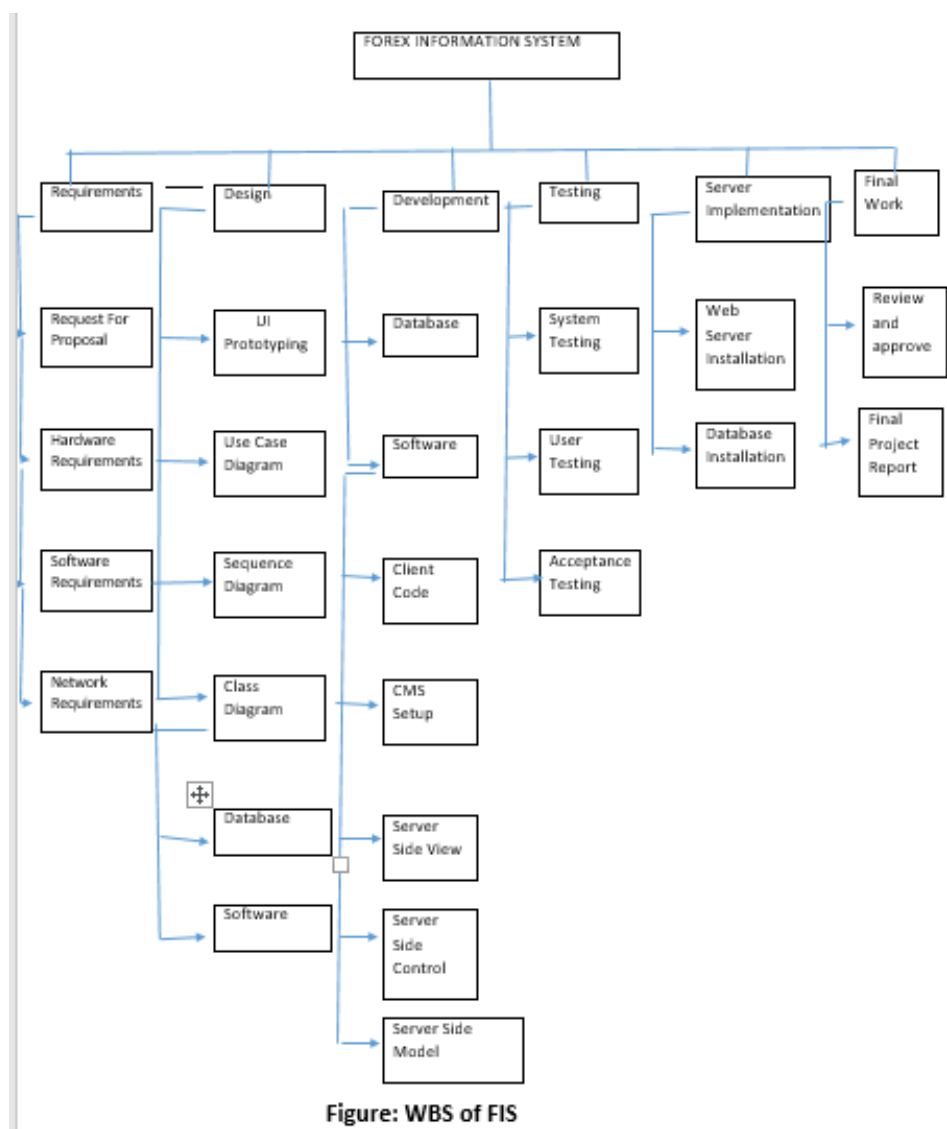


Figure 3.1: WBS of FIS

### 3.2 Process/Activity wise Time Distribution

For Each Section we have described in the WBS Diagram for ERP we made a time allocation. The Table below shows them in details.



Task	Days	Work Percentage
Requirements	15	20
Design	15	19
Development	15	22
Testing	7	13
Live Server Implementation	6	12
Final Touch	5	14
Total	63	100

Table 3.1: task wise time allocation

### 3.3 Gantt Chart

We have used the Gantt chart to plan and schedule all the activities that were needed to be done to complete the project successfully.

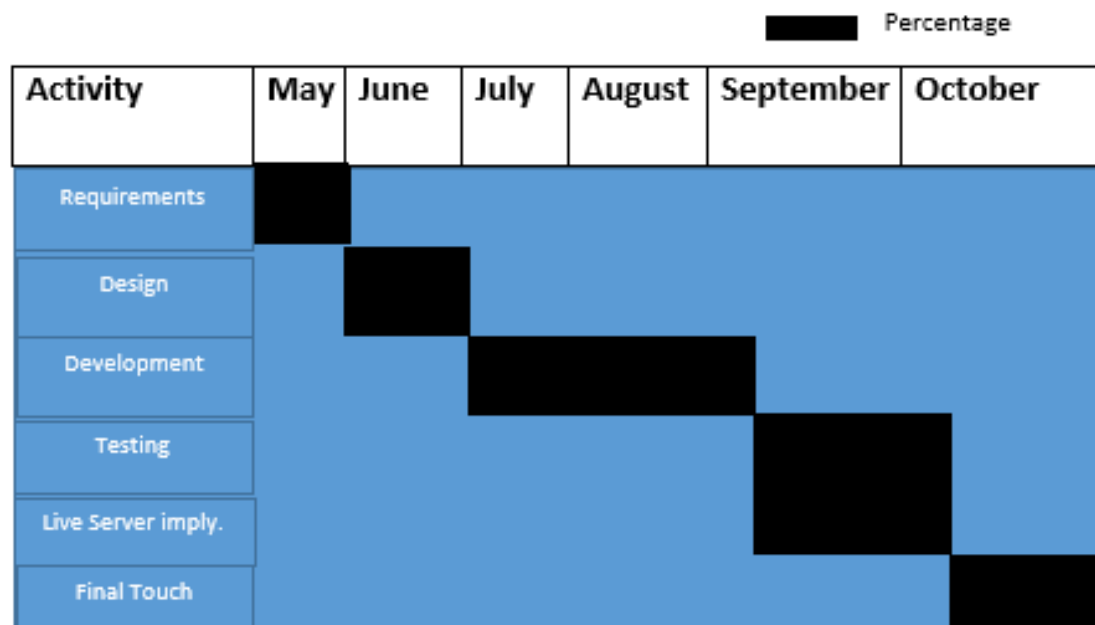


Figure 3.2: FIS Gantt Chart

## 3.4 Estimated Costing

Analysis	Costing
PSD Template Design	\$200
Domain	\$150
Hosting Server	\$60 Per Year
Logo Design	\$9 per month
Graphical Content Design	\$100
Development	\$250
Maintenance 1 year	\$750
Total	\$2000 approximately

Table 3.2: Estimated Costing

# Chapter 4

## Methodology

Software development methodology refers to structured processes involved when working on a project. We choose Agile methodology in this project. Our Teams use the agile development methodology to minimize risk (such as bugs, cost overruns, and changing requirements) when adding new functionality. Agile is a structured and iterative approach to project management and product development. The most commonly used methodology Agile, which follows requirements, design, development, testing, deployment, review and then repeat the process. For this project our team had to do is design the module according to our needs and keep the required modules and provide them to the valid employee. There is a testing site for the user to test different module before using in the real life data. Research Methodology is a way to systematically solve the study problem. Many of the data and information were collected from my practical experience and queries from the executives while doing my internship at EactIdea LTD. Information and data, interest rates charges, Foreign Exchange operations, Foreign Exchange policies etc. were collected from these sources. Data regarding the Foreign Exchange operations and Performance Evaluation of Forex Information System were collected from secondary sources like: Annual Reports, Brochures, Manuals and Publication of FX Unity Global LTD, Library, DSE Library, Newspaper etc. After all the testing the designed document sign off and declares the user acceptance certificate and declares go live for the company. As the company goes live in the environment, they entry the data for a specific month for all of their business unit and matches the cart of balance with their existing system. If everything goes fine with an accepted error of 5 percentage the project manager declare the project for live. We use html, css, jQuery, bootstrap for the front-end part and php, mySql for the back-end part of this project. [?]

# Chapter 5

## Body of the Project

### 5.1 Work Description

Our project is a web application system for Forex Signal Delivery. It is an online system through which members can view services, register, log in, avail services. This system will provide multiple services like Forex Signals , Fund Management and Forex Training. This application can extract information from customers by using their details. The proposed system is fully integrated online systems. It automates the manual process in an effective and efficient way. The purpose of this system is to develop a website for those who want to trade in the Forex market. The system provides members with real-time trade alerts via email or text messages when entering or exiting a trade in order to maximize profit for a particular trade. A member can receive multiple notification options from emails to SMS text messages. The system provides consistent forex signals and instant availability of trading results at the close of trading. This web application is created with CSS, html, php, bootstrap, JavaScript and MySQL database server. My internship was at XactIdea LTD, Banani, Dhaka. My work in the team is to making the Front-End part with CSS, html, php, bootstrap, JavaScript of this web application. I throughly enjoyed my internship in this summer. From the beginning of my internship i didn't face any problem because of our senior software engineer Mr. Shahidul Islam is very much friendly and give us proper guidance and information during the working time. And during my internship, I had to prepare a report under the supervision of Sheikh Abujar Sir who is a faculty of IUB.

## 5.2 System Analysis

### 5.2.1 Six Element Analysis

Process	System roles					
	Human	Non-Computer Hardware	Computing Hardware	Software	Database	Communication and Network
Website Visit	All Users	N/A	Computer, Laptop, Smart-phone and Tabs	All Browsers	My SQL	WAN
Login	All Users	N/A	Computer, Laptop, Smart-phone and Tabs	All Browsers	My SQL	WAN
Register	All Users	N/A	Computer, Laptop, Smart-phone and Tabs	All Browsers	My SQL	WAN
Contact	All Users	N/A	Computer, Laptop, Smart-phone and Tabs	All Browsers	My SQL	WAN
Get in Touch	All Users	N/A	Computer, Laptop, Smart-phone and Tabs	All Browsers	My SQL	WAN
Admin Panel	Users who can access	N/A	Computer, Laptop, Smart-phone and Tabs	All Browsers	My SQL	WAN

Table 5.1: Six Element Analysis of FIS

## 5.2.2 Feasibility Analysis

In this part I will discuss about the feasibility study of my project. Feasibility study is the most important thing to find out the economic benefit and economic cost of my project. Feasibility works on the financial feasibility, economic feasibility, operational feasibility and technical feasibility.

- **Financial Feasibility :-** Since FIS is a web application, hosting costs are incurred. Since the system consists of no multimedia data transmission, required bandwidth for the operation of this application is very low. Also our company charges comparatively less amount than others. So we can say that our project FIS is financially feasible.

- **Technical feasibility Study:** Assessing technical feasibility is to assess whether the new system will perform satisfactorily and whether an association has capacity to build a proposed system or not. The specialized appraisal answers the inquiry, for example, whether the innovation required for the system exists, how troublesome it will be to assemble, and whether the firm has enough experience utilizing that innovation. Project FIS is a complete web-based application. The main technologies and tools that are associated with FIS are.. HTML, CSS, PHP, Bootstrap, JavaScript, MySQL, Diagram drawing tools, Visio, Lucid Chart.

- **Economic feasibility:** Economic feasibility study demonstrates the conservative advantages against the expenses will have done to build up the system. There are two parts in economic feasibility study.

Economic Benefits: 1) It will reduce man power. So that employee assignment cost will be much lower. 2) It will reduce paper work.

Economical Costs: Economic cost also important to concern when developing a new system. There have to make a few costs to implement the system.

1) As this is a web application so first of all buy a domain name and for storage buy a host service. 2) Development cost like pay for api or some other services.

- **Operational feasibility:** In this test, the operational scope of the system is checked. The system under consideration should have enough operational reach. It is observed that the proposed system is very user friendly and since the system is built with enough help, even persons with little knowledge of windows can find the system very easy.

## 5.2.3 Problem Solution Analysis

During entry level position period, representatives of FIS were extremely strong and consistently assisted me with learning. Be that as it may, it was unrealistic for me to think pretty much all the divisions inside 3 months. There were a number of problems that were encountered while completing the project and they were solved accordingly. Some of the problems were:-

- I discovered a few issues with respect to the organization while working here. During my entry level position I saw that outstanding task at hand in deals division was more than contrasted with the quantity of working representatives. As their work pressure was being multiplied, so persuasive degrees of those representatives were getting down. In this way, the authority is needed to be a little cautious about their representatives. May be their present strategy isn't to enroll any new representative, however they can comprehend this circumstance by moving workers from different offices. In any case the inspiration level of the representative will be low.

- The office doesn't have any severe principles with respect to time the executives. Subsequently, the propensity of being not on time is developing among workers. To change this training the office may should be a little unforgiving about their guidelines and guideline. [?]

#### 5.2.4 Effect and Constraints Analysis

This system is to develop a website for the people who want to trade on the foreign exchange market. It also provides a time accurate and cumulative profit oriented forex signals. We make sure that you consistently make a profit with our live signals and always come out with a positive balance. The system provides real-time trade alerts to members via email or text messages when to enter or exit a trade, maximizing profit for a particular trade. It is an online system through which members can view available services, register, log in and contact to receive the services. The most amazing part is that governments or large corporations do only a small percentage of these daily transactions. Individual traders from all over the world place their trades over the phone or online every day. Since the markets represent all the major currencies worldwide, the market is open 24 hours a day, seven days a week. This means that there is an endless opportunity to make money. For the trader who wants to take the time to learn the ropes of forex trading, unlimited wealth is a very real possibility. We are still thriving to bring out more changes and add more features to our website that would help and encourage more and more people to start this practice of work from home during the pandemic rather than going around from gatherings which is not safe.

## 5.3 System Design

### 5.3.1 Rich Picture

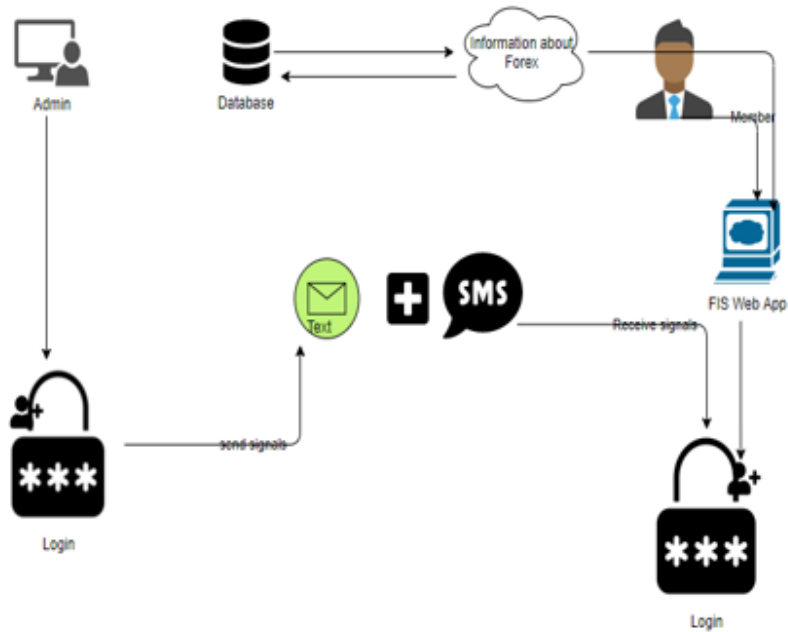


Figure 5.1: Rich Picture of FIS

### 5.3.2 UML Diagrams

The activity diagram is an important UML diagram that shows the flow of one activity to another. The activity diagram of the user and admin help to visualize the flow of their activity in graphical form.



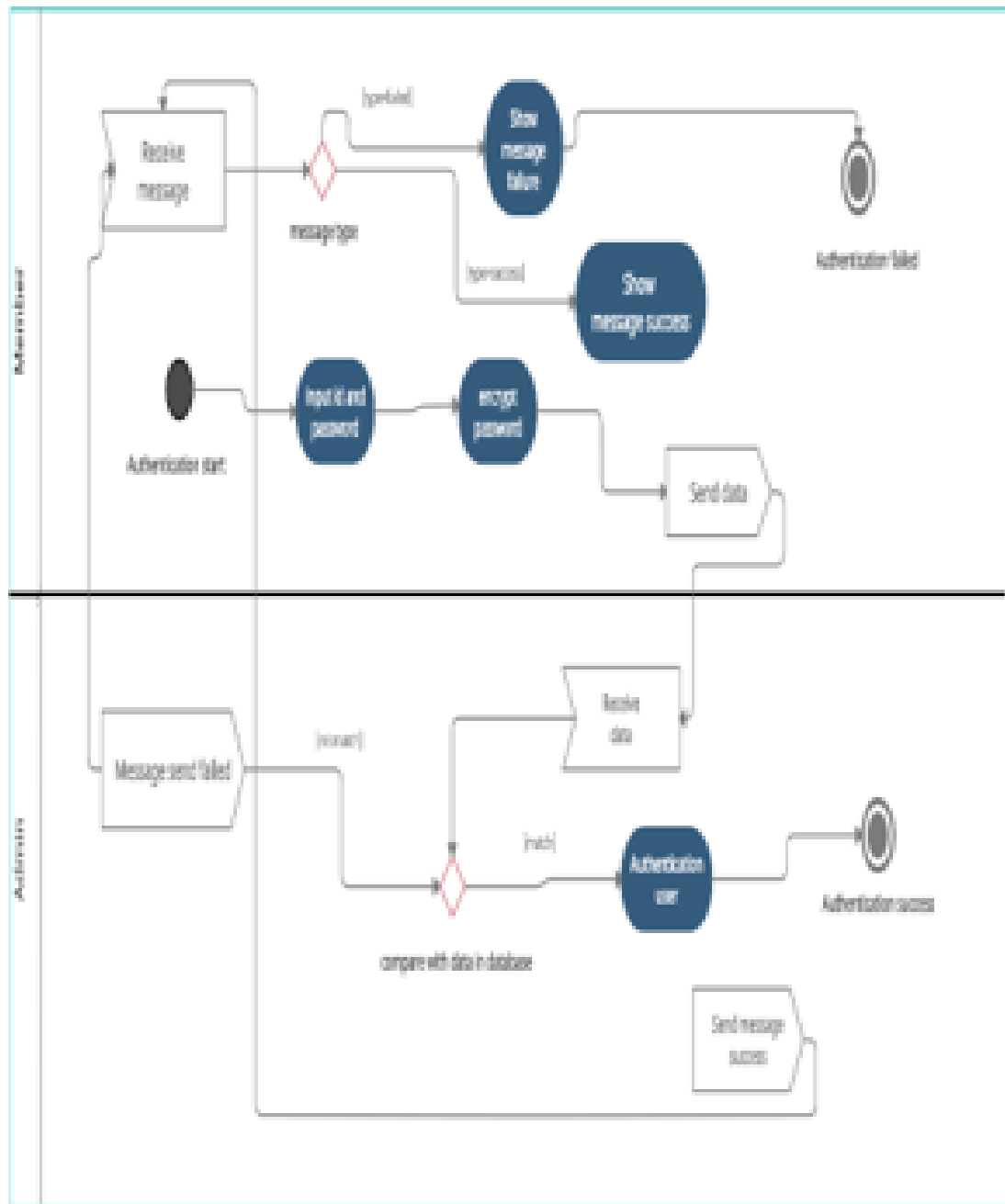


Figure 5.2: UML diagram of FIS

### 5.3.3 Data Flow Diagram

Flow Chart Diagram: Describes the processes for the HP Chemical Factory I had analysed for:

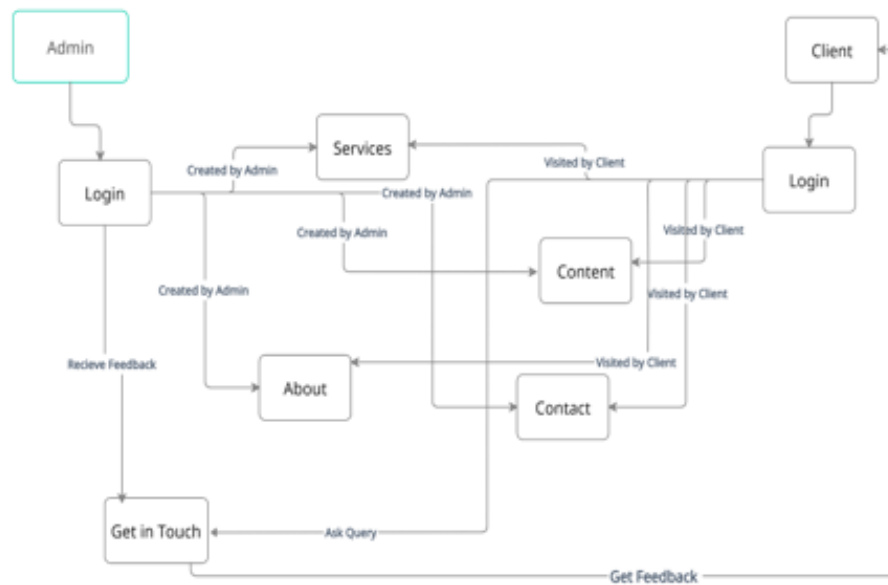


Figure 5.3: Dataflow Diagram of FIS

### 5.3.4 Use-case Diagram

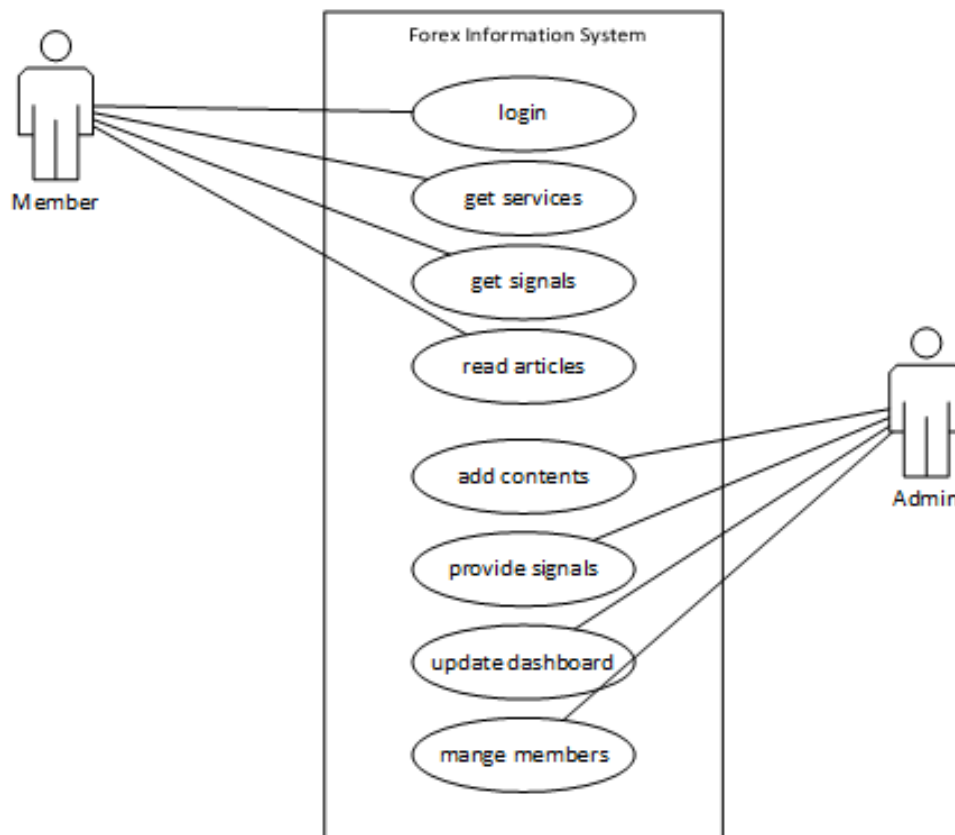


Figure 5.4: Used case Diagram of FIS

### 5.3.5 Functional and Non-Functional Requirements

#### Functional Requirements:

1. The system allows users to log in to their account by entering their email address and password.
2. The system allows users to log in with their Google accounts.
3. The system allows users to reset their password by clicking "I forgot my password" and receiving a link to their verified email address.
4. The system sends users signals by email SMS.
5. The system sends verification code to user's phone number or email account to verify.
6. The system able to add or remove users.

### Non-functional requirements

Non-functional requirements defines system attributes such as security, reliability, performance, maintainability, scalability, and usability. They serve as constraints or restrictions on the design of the system across the different backlogs.

1. Security: The system must have protection from unauthorized users. By using username and password. system show error if the username or password is not correct. To use the system, every user has to login by key in their username and password.
2. Performance: The time system required to process and respond when a user key in the Identification that is username and password. system is supposed to respond in less than 2 seconds.
3. Verification: All the inputs given by user must be verified by user-side and server side verifications.
4. User interface: : System should provide an user friendly interface. So that, users enjoy using the system.
5. Security: The system will deal with internal data of the company. Therefore, the system must provide adequate security service so that all the data is protected.
6. Efficiency: All the algorithms used to calculate and organize the data must be efficient to reduce server side calculation time.

## 5.4 Product Features

- . Log in
- . Web-based signal platform
- . User-friendly dashboard
- . 1 Click Payment System
- . Buy/sell forex trading signal
- . Export trading signal history
- . Real-time trade updates
- . Real-time trade updates

### 5.4.1 Architecture

There are different types of architecture used in various systems. In our FIS system we used Three tier architecture. [?].

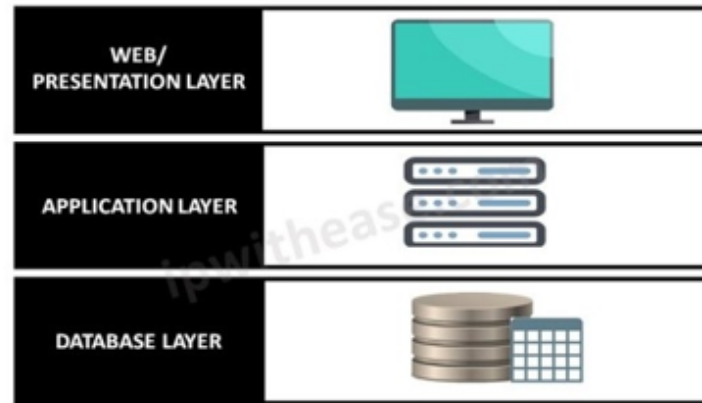


Figure 5.5: Three Tier Architecture

# Chapter 6

## Results & Analysis

I started my intern in the XactIdea Ltd from June 2021 as a Front end Developer of the Project of Forex Information System. Since then we are working together to develop the FIS website. In this project all the features worked successfully. The testing team of XactIdea Ltd done the final testing of this project and then provided it to the company for user acceptance testing. Representative of the FIS test the web app and provide their feedback. According to their feedback is acted upon and produces a deliverable final product. Another development team of XactIdea Ltd is still working on the main software of this project, which will be linked to this website soon. Some of our works are:

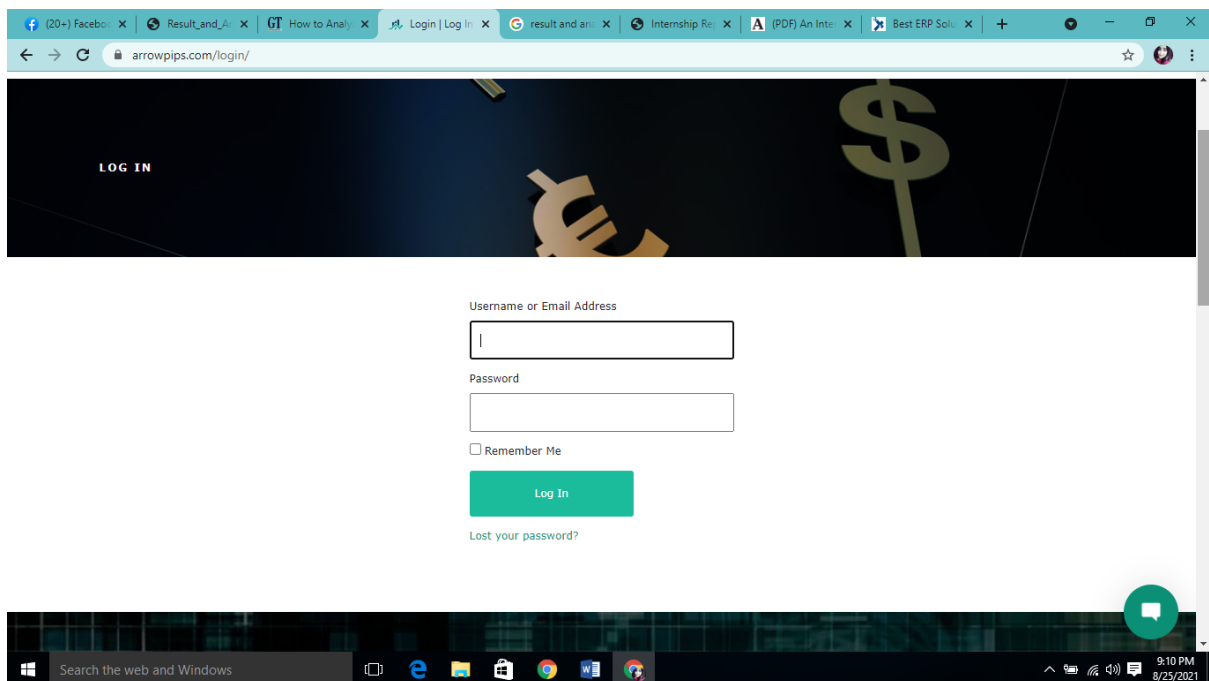



Figure 6.1: Login

Services:

X
Profitable Forex Signals Delivered On Time
X



### Forex Signals

We have developed a consistent and highly accurate forex signal delivery system that sends option alerts to our members when it is right to make a move. Our signals are comprehensive providing the most appropriate entry and exit points, and for this reason perfect for anyone interested in trading. We believe that level of proficiency in Forex trading should not matter; what is important that our members perform profitable trades easily.

We send real-time trade alerts to email, and text message notifying our members of when to enter or exit a trade thereby maximizing profit for any given trade. These signals come with detailed weekly analysis to explain our rationale for the decisions we took.

**We Offer Our Services In 3 Membership Tiers:**

- ☒ Trial
- ☒ Standard
- ☒ Professional

[See Pricing](#)


















Figure 6.2: Services

History:

## HISTORY

Year: 2021  
Month: August

	Buy/Sell	Date	Entry Point	Result
	XAU/USD	08-20-2021	1787	+60 
	XAU/USD	08-18-2021	1793.50	+85 
	XAU/USD	08-12-2021	1751	+130 
	EUR/USD	08-10-2021	1.1722	+20 
	XAU/USD	08-06-2021	1767	-70 
	XAU/USD	08-04-2021	1831	+200 
	XAU/USD	08-03-2021	1808	+70 




Figure 6.3: History

Pricing:

**PRICING**

Get started on **Premium Package** from **below** and you are **PROTECTED** by 30 Days Money Back **Guarantee**. Choose the package for you and get started today!

**30 DAYS MONEY BACK GUARANTEE**

Trial	Standard	Professional
\$1 7 Days	\$98 \$99 30 Days	\$267 90 Days
UPGRADE ANYTIME	CANCEL ANY TIME	CANCEL ANY TIME

Figure 6.4: Pricing

Blog:

**BLOG**

**IS FOREX TRADING PROFITABLE OR NOT**

**Is Forex Trading Profitable? | Aug 24, 2021 | Forex Articles**

It is no secret that forex trading is very risky and that every forex trader incurs losses at one time or another. Being a forex trader is like running a ...[Read More >>](#)

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- Simple Tips To Increase Your Forex Success
- Should You Trade Forex In Retirement?
- What Is The Best Way To Learn Forex Trading?

**Categories**

- Forex Articles

Figure 6.5: Blog

Forex Articles:



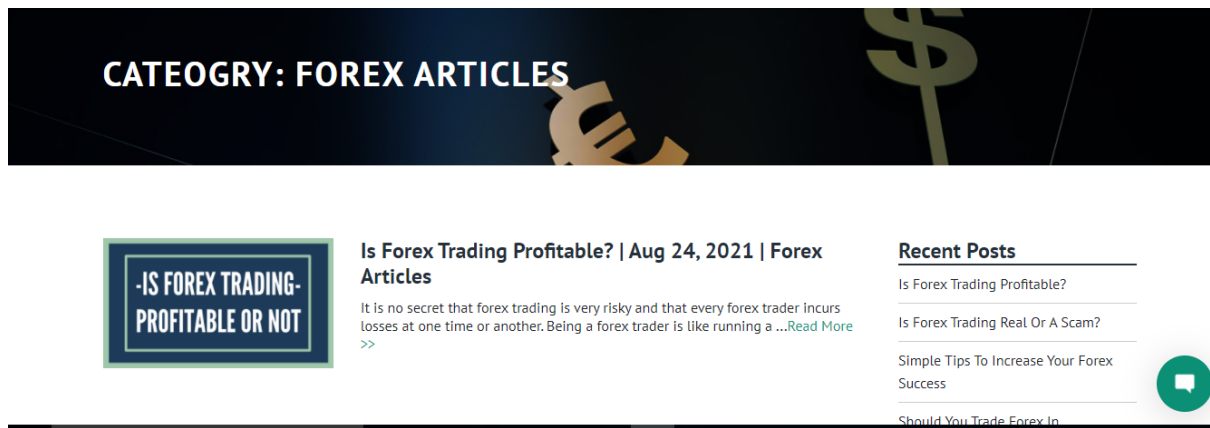


Figure 6.6: Forex Articles

Consistent Forex Signals: Over the years, we have built up our reputation as one of the top Forex signal providers in the world with over 90



Figure 6.7: Consistent Forex Signals

Forex Signals to Your Inbox: We share the latest FX trading trends in your email and SMS to your phone number to keep you updated on what we are trading. We also update your account dashboard with the hottest trades so that you know what is hot and making money.

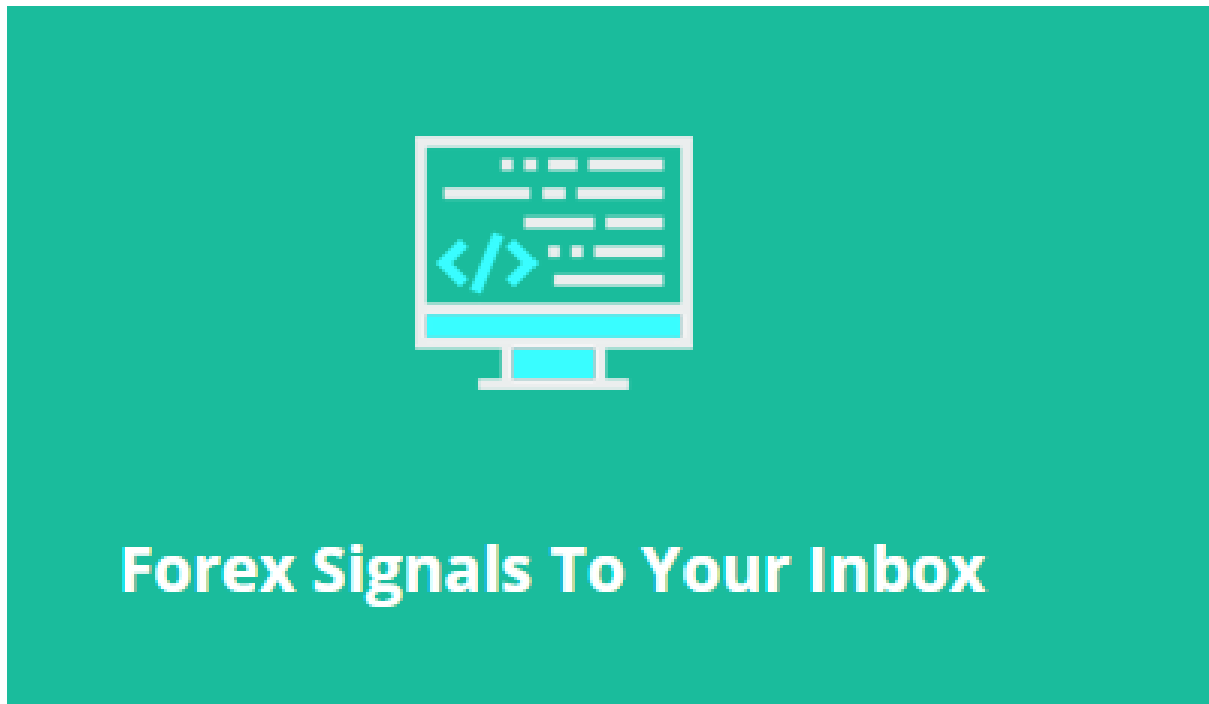


Figure 6.8: Forex Signals to Your Inbox

Risk Management Controls: FIS works on state of the art risk reduction algorithm. Our signals always include an Entry price, stop loss and Take profit with 3 different levels. This enables you to minimize loss and optimize your profits as much as possible.



Figure 6.9: Risk Management Controls

Real-Time Forex Update: FIS is constantly updating with the data you need to make informed and quick decisions. FIS is backed by leading Forex brokerage systems around the world. The updates provided are cross-matched before delivering to you.



Figure 6.10: Real-Time Forex Update

Satisfaction Guaranteed: FIS is committed to providing you with an exceptional trading experience, and we are glad that have and continue to achieve amazing results. With an overall accuracy above 90

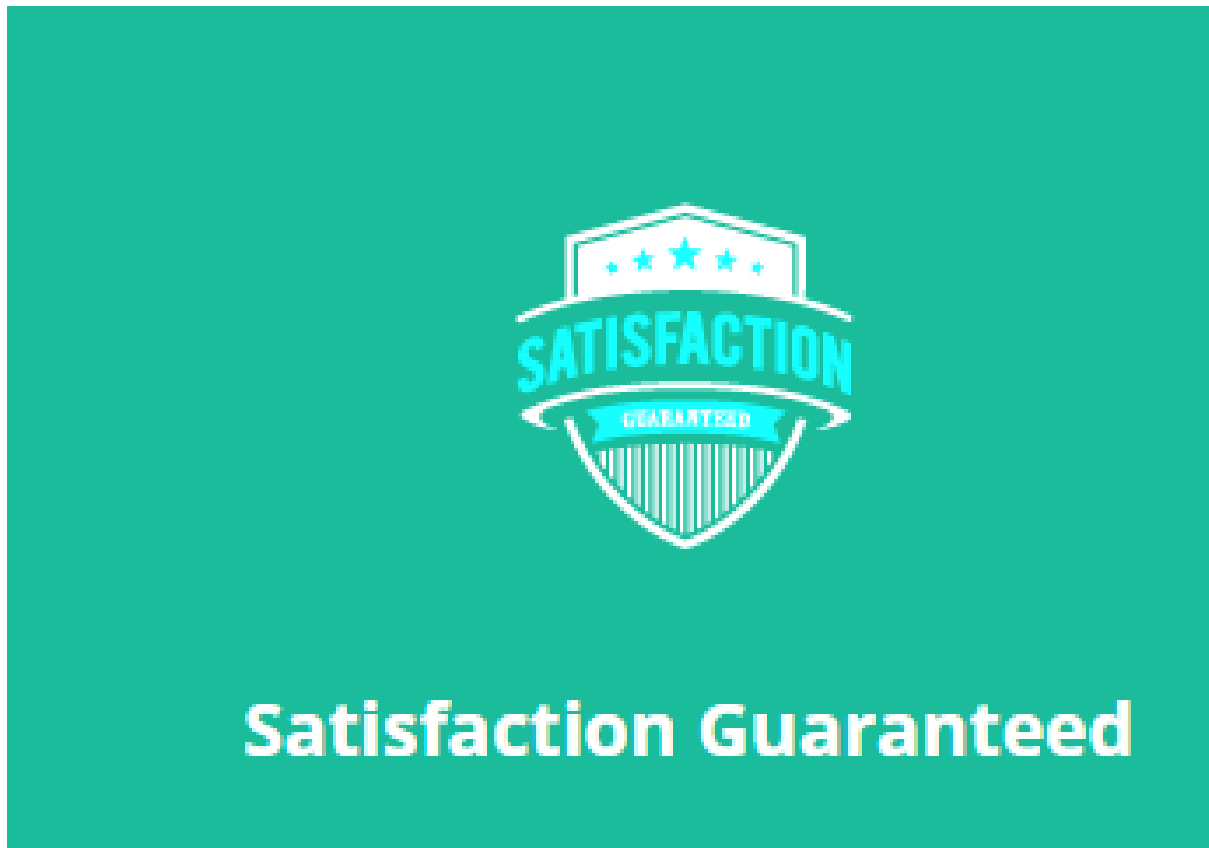


Figure 6.11: Satisfaction Guaranteed

Client Focused 24/7 Support: Have any question in mind? Our award-winning customer support team is available 24/7/365 to attend to your queries and take care of any problems you may have. You can also send us a message on our social media accounts.

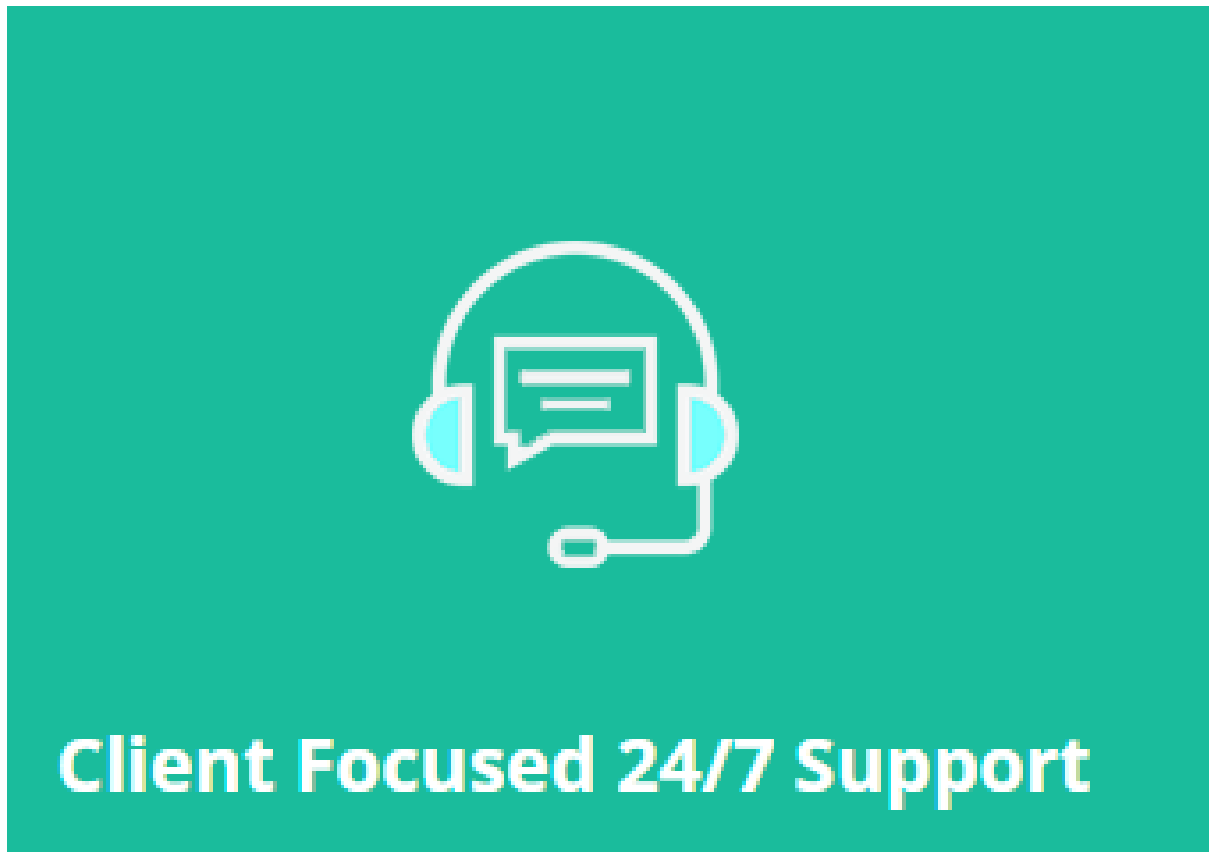


Figure 6.12: Client Focused 24/7 Support

Fund Management:

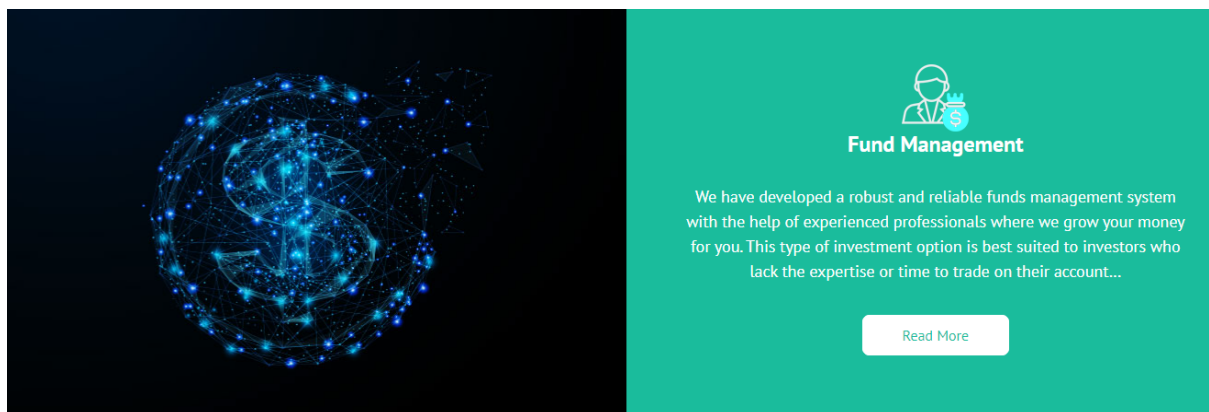



Figure 6.13: Fund Management

Forex Training:



### Forex Training

We offer a comprehensive Forex Trading Training Program that provides a solid foundation for maneuvering the trading market. Learning the secrets of the trade was never easier than it is now with our comprehensive educational program...

[Read More](#)

Figure 6.14: Forex Training

Get In Touch:

### Get In Touch

Figure 6.15: Get In Touch

# Chapter 7

## Project as Engineering Problem Analysis

### 7.1 Sustainability of the Project/Work

We need to understand what the term "project sustainability" means. It is the ability to keep the system up to date and maintain it in a timely manner. All of the software and the website must be kept up to date. The team is always assessing the process to see how it may be made more user-friendly, convenient and how much time may be saved by completing the identical work on this platform rather than on their prior platform. In addition, our team will maintain and support the program. At every level of this system, caching has been incorporated. The terms "browser," "page," "server," "database," and so on are used interchangeably. The website will load faster since the server will be more efficient. Bugs and issues are updated on a regular basis by the team. [?].

### 7.2 Social and Environmental Effects and Analysis

Forex is a true global marketplace, with buyers and sellers from all over the world engaging in daily deals worth billions of dollars. Because foreign exchange trading has become such a worldwide industry, macroeconomic events from all around the world now play a larger influence in forex than they ever have before. Traders are no longer required to use popular currencies, but they are an excellent place to start. Overarching macroeconomic variables are the primary drivers of the currency market. These variables have an impact on a trader's actions and, in turn, the value of a currency at any particular time. The soundness of a country's economy is a major determinant of its currency's exchange rate. Another important factor is the international trade balance. The trade



balance is a proxy for a country's relative demand for its goods. A country's currency will usually appreciate if its products or services are in great demand worldwide. If customers wish to buy items from Australia, they must first convert their money into Australian dollars. Increased demand for the Australian dollar will push the currency's value higher. Countries with high trade deficits, on the other hand, are net consumers of foreign products. More of their currency is sold to buy other countries' currencies in order to pay for imported products. A negative influence on the value of an importing country's currency is probable in this circumstance. The state of the economy as a whole can shift rapidly in response to current events and new knowledge. To keep clients informed about the latest currency signals and trends, the system delivers emails and SMS updates. Using this method, even beginners may simply invest money in the market without fear of encountering any issues. The experts carefully spend their money in order to make a profit on every occasion. Our web app's social and environmental sustainability is improved by the features we implemented.

# Chapter 8

## Lesson Learned

Because the lockdown occurred at the beginning of the semester, we had to work from home. As a result, I had a hard time putting things to use. On the other side, my coworkers were really courteous to me. They offer tutorials that were really helpful to me. Aside from the internship, I still have two classes to finish. It was tough for me to keep track of all of the duties, but it taught me an important lesson about how to finish projects on time. I figured out how to solve an issue. What is the best way to program with real-world data? I was also able to address my php difficulties during the assignment.

# Chapter 9

## Future Work & Conclusion

### 9.1 Future Works

This is an intriguing concept with a lot of promise. We think that when the project is executed online in the future, it will be a success. The project can be improved quickly if the need arises because it is reasonably easy to grow. Another Forex Signal automation tool is now being developed and will be published to the website in the near future by another XactIdea Ltd. software development team. Once this website is up and running, it will provide clients with automatic and organized assistance. They may access their personal accounts by logging in with their ID and password, which will allow them to order services and make payments online.

### 9.2 Conclusion

During my time here, my internship has been both intriguing and fruitful. I've met and spoken with a lot of individuals that I feel will be able to help me in the future, and I'm confident that they will. I got excellent knowledge in two key areas during my internship: time management and self-motivation. Working at XactIdea Ltd. was a once-in-a-lifetime experience for me, and I can say that with certainty. I had the opportunity to meet a diverse range of fascinating individuals in addition to learning how to be more productive. Despite my initial nervousness, I felt at comfortable at the workplace because the environment was so relaxed. By working on initiatives and offering assistance to people in my division, I've also made a good contribution to the organization. Being here and learning all of the technical skills is an incredible opportunity that I would not have had if it hadn't been for this internship. Despite the fact that I will require time to master these skills, I am optimistic.

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