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Project Report

on

Development of ETF Analysis system (User Module)

A project report submitted in partial fulfilment of the requirement for the degree of

MASTER OF COMPUTER APPLICATION

in

COMPUTER SCIENCE AND ENGINEERING

Submitted By:

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Ref.: PGR-2024/P-4016 **Date:** 22-April-2024

To whom so ever it may concern

This is to certify that **Mr./Mrs./Miss. PRASHANT GOUR** student of MCA at MITS, Gwalior, has completed **Project** Training/Internship program as an online/offline trainee at our organization **PRAEDICO GLOBAL RESEARCH PVT. LTD.** Him/Her training details are:

Period - **01 JAN 2024 to 22 APR 2024**

Technology – **PYTHON- DJANGO with MYSQL**

Project Title – **ETF-ANALYSIS SYSTEM (USER MODULE)**

All of us at Praedico Global Research Pvt. Ltd. are pleased to have him/her in our team. This Project Training/Internship program includes training, orientation and focuses primarily on learning and developing new skills and gaining a deeper understanding of concepts through hands on application of the knowledge he/she learned.

We take this opportunity to wish him/her a long, happy and successful career.

For

Authorized Signatory

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CERTIFICATE

This is certified that **Prashant Gour** (0901CA221044) has submitted the project report titled **Development of ETF Analysis system (User Module)** under the mentorship of **Mr. Priyank Gupta**, in partial fulfilment of the requirement for the major project in 2nd year of Master of Computer Application in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

Dr. Anshu Chaturvedi

Professor

Computer Science and Engineering

24/4/24

Dr. Manish Dixit

Professor and Head

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Dr. Manish Dixit
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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Master in Computer Application in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Mr. Priyank Gupta, Project Manager (Full Stack Developer Team)**, Praedico Global Research Private Limited (Gwalior).

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

Prashant Gour

0901CA221044

2022-2024

Master of Computer Application,

Computer Science and Engineering

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I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Anshu Chaturvedi (Professor)**, Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

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ABSTRACT

The ETF Analysis System's painstakingly crafted user module, revolutionizes investor empowerment. Instead of taking a one-size-fits-all approach, this smart interface carefully attends to each user's unique set of demands and investment goals. By utilizing state-of-the-art technology, the user module offers comprehensive analytics and real-time market data, providing a comprehensive picture of market dynamics and ETF trends. This democratizes access to analytical market research that was previously only available to seasoned experts and enables investors of all experience levels to make well-informed decisions based on a variety of important information.

The user module does more than just provide information. A new level of sophistication may be unlocked with premium subscription services. Through these services, investors may obtain sophisticated analytics that are carefully customized to meet their individual investment objectives and risk tolerance levels. The impact of these premium features is like having a team of knowledgeable financial advisors whisper tailored advice in your ear. Investors may feel secure in the knowledge that their choices are not just well-informed but also carefully matched with their overall financial goals when they receive this kind of personalized assistance.

The user module incorporates an easy-to-use digital wallet with a user-centric approach. With the help of this cutting-edge feature, investors can concentrate on their primary goal of making wise investment selections by streamlining the ETF transaction process and getting rid of pointless complications. But security is never compromised in the name of user convenience. The user module protects financial data with the highest level of rigor by utilizing the most sophisticated security procedures available. Modern payment options are easily included into the platform, fortifying it against fraud and unwanted access. This steadfast dedication to security creates a trusting atmosphere that enables investors to use the platform with confidence and interact with a group of people who share their values, creating a cooperative forum for information sharing.

To summarize, the user module of the ETF Analysis System is more than just a basic interface. With its comprehensive and state-of-the-art platform, it marks a paradigm leap in ETF investment technology. It's a doorway to an endless array of opportunities, giving investors of all stripes the ability to make well-informed investing decisions.

सार

ईटीएफ विश्लेषण प्रणाली का परिश्रमपूर्वक तैयार किया गया उपयोगकर्ता मॉड्यूल, निवेशक सशक्तिकरण में क्रांतिकारी बदलाव लाता है। एक आकार-सभी के लिए फिट दृष्टिकोण अपनाने के बजाय, यह स्मार्ट इंटरफ़ेस प्रत्येक उपयोगकर्ता की मांगों और निवेश लक्ष्यों के अनूठे सेट को सावधानीपूर्वक पूरा करता है। अत्याधुनिक प्रौद्योगिकी का उपयोग करके, उपयोगकर्ता मॉड्यूल व्यापक विश्लेषण और वास्तविक समय बाजार डेटा प्रदान करता है, जो बाजार की गतिशीलता और ईटीएफ रुझानों की एक व्यापक तस्वीर प्रदान करता है। यह विश्लेषणात्मक बाजार अनुसंधान तक पहुंच को लोकतांत्रिक बनाता है जो पहले केवल अनुभवी विशेषज्ञों के लिए उपलब्ध था और सभी अनुभव स्तरों के निवेशकों को विभिन्न महत्वपूर्ण सूचनाओं के आधार पर अच्छी तरह से सूचित निर्णय लेने में सक्षम बनाता है।

उपयोगकर्ता मॉड्यूल केवल जानकारी प्रदान करने के अलावा और भी बहुत कुछ करता है। प्रीमियम सदस्यता सेवाओं के साथ परिष्कार का एक नया स्तर अनलॉक किया जा सकता है। इन सेवाओं के माध्यम से, निवेशक परिष्कृत विश्लेषण प्राप्त कर सकते हैं जिन्हें उनके व्यक्तिगत निवेश उद्देश्यों और जोखिम सहनशीलता स्तरों को पूरा करने के लिए सावधानीपूर्वक अनुकूलित किया गया है। इन प्रीमियम सुविधाओं का प्रभाव जानकार वित्तीय सलाहकारों की एक टीम द्वारा आपके कान में फुसफुसाए जाने जैसा है। निवेशक इस ज्ञान में सुरक्षित महसूस कर सकते हैं कि जब उन्हें इस प्रकार की व्यक्तिगत सहायता मिलती है तो उनकी पसंद न केवल अच्छी तरह से सूचित होती है बल्कि उनके समग्र वित्तीय लक्ष्यों के साथ सावधानीपूर्वक मेल खाती है।

उपयोगकर्ता मॉड्यूल में उपयोगकर्ता-केंद्रित दृष्टिकोण के साथ उपयोग में आसान डिजिटल वॉलेट शामिल है। इस अत्याधुनिक सुविधा की मदद से, निवेशक ईटीएफ लेनदेन प्रक्रिया को सुव्यवस्थित करके और अनावश्यक जटिलताओं से छुटकारा पाकर बुद्धिमान निवेश चयन करने के अपने प्राथमिक लक्ष्य पर ध्यान केंद्रित कर सकते हैं। लेकिन उपयोगकर्ता की सुविधा के नाम पर सुरक्षा से कभी समझौता नहीं किया जाता है। उपयोगकर्ता मॉड्यूल उपलब्ध सबसे परिष्कृत सुरक्षा प्रक्रियाओं का उपयोग करके उच्चतम स्तर की कठोरता के साथ वित्तीय डेटा की सुरक्षा करता है। आधुनिक भुगतान विकल्प आसानी से प्लेटफ़ॉर्म में शामिल किए गए हैं, जो इसे धोखाधड़ी और अवांछित पहुंच के विरुद्ध मजबूत बनाते हैं। सुरक्षा के प्रति यह दृढ़ समर्पण एक भरोसेमंद माहौल बनाता है जो निवेशकों को आत्मविश्वास के साथ मंच का उपयोग करने और अपने मूल्यों को साझा करने वाले लोगों के समूह के साथ बातचीत करने में सक्षम बनाता है, जिससे जानकारी साझा करने के लिए एक सहकारी मंच बनता है।

संक्षेप में कहें तो, ईटीएफ विश्लेषण प्रणाली का उपयोगकर्ता मॉड्यूल सिर्फ एक बुनियादी इंटरफ़ेस से कहीं अधिक है। अपने व्यापक और अत्याधुनिक प्लेटफॉर्म के साथ, यह ईटीएफ निवेश प्रौद्योगिकी में एक बड़ी छलांग का प्रतीक है। यह अवसरों की एक अंतहीन श्रृंखला का द्वार है, जो सभी प्रकार के निवेशकों को अच्छी तरह से सूचित निवेश निर्णय लेने की क्षमता देता है।

LIST OF FIGURES

Figure Caption **Page No.**

LIST OF TABLES

Table Caption **Page No.**

LIST OF CONTENTS

CHAPTER 1

INTRODUCTION

CHAPTER 1: INTRODUCTION

For users of all expertise levels, the ETF Analysis System User Module redefines the ETF investment process. Here's a sample of what this cutting-edge platform has to offer:

- **Democratized Investment Decisions**: Regardless of past expertise, you will be able to make educated decisions about your investments with the use of real-time market data, thorough analytics, and perceptive analysis.
- **Customized Investment Plans**: Unlock the potential of premium subscription services, which offer precise suggestions and cutting-edge analytics carefully matched to your individual objectives and risk tolerance.
- **Seamless Transaction Management**: Take advantage of the ease and convenience of a user-friendly digital wallet to manage your ETF transactions more efficiently and free up your time to make wise investment choices.
- **Unwavering Dedication to Security**: Invest with assurance. The User Module places a high priority on the security of your financial information, using state-of-the-art security procedures to protect it.

This User Module is a whole toolbox created to enable you, the investor, to confidently and intelligently navigate the ETF market. It is more than simply an interface.

1.1 Problem Identification

The growing Exchange-Traded Fund (ETF) market is an alluring opportunity for investors looking for growth and diversity. But a continual onslaught of data from information overload makes it challenging to discern trustworthy sources and convert them into useful insights. This leads to an unequal playing field, as does the knowledge gap experienced by novice investors who are unable to understand ETF patterns, market dynamics, and investing methods. Moreover, behavioral biases or emotional decision-making can impair judgment and mislead investors. In the absence of customized assistance to customize strategies according to individual goals and risk tolerance, these biases may impede long-term financial objectives and returns. Furthermore, operational inefficiencies plague traditional investing platforms often. Investors may miss out on possibilities due to the inability to make quick, strategic judgments caused by clumsy interfaces and laborious procedures. Lastly, people are reluctant to trust online sites with their financial information due to security worries in the digital era. This mistrust prevents potential investors from entering the ETF market by acting as a barrier to entry. These difficulties are intended to be met head-on by the ETF Analysis System User Module. The User Module gives investors of all experience levels the confidence to navigate the ETF market by offering a user-centric platform with individualized assistance, clear information, and a fast transaction procedure

1.2 Parent Organization

Praedico Global Research Private Limited

Praedico Global Research, based in Gwalior, Madhya Pradesh, India, is a well-known proponent of financial literacy and a trailblazer in the creation of technological solutions for the Indian stock market. Their main goal is to democratize financial literacy and provide Indian investors the confidence they need to confidently traverse the complicated financial landscape.

Praedico uses a clever mix of innovative technologies and instructional programs to accomplish this goal:

- **Programs for Financial Literacy:** Praedico provides a wide range of instructional materials, workshops, and online courses, among other things. With a focus on technical and fundamental analysis, investing techniques, and navigating the intricacies of the Indian financial system, these programs provide Indian investors a strong foundation in finance.
- **Specialized Stock Market Training:** Praedico offers specialized training programs on a range of financial products, going above and beyond the requirements of basic financial literacy. These courses go further into investing methods and may include technical analysis for spotting trading opportunities and fundamental analysis for evaluating the financial standing of a business.

Praedico, nevertheless, doesn't just concentrate on education. By creating their own neural network-powered stock research software, they've pushed the limits of creativity. Many sophisticated features are featured in this program, such as:

- **Neural Network-Driven Predictions:** The program makes recommendations for potential investments by analyzing market patterns and providing signals derived from highly developed neural networks.
- **Integration of Sentiment Analysis:** The program forecasts market sentiment based on news patterns by integrating sentiment analysis, offering insightful information about investor psychology.
- **Accuracy-Centric Approach:** Praedico claims to provide results that surpass 80% accuracy and places a strong emphasis on the accuracy of its software, especially in relation to the Indian stock market.

1.3 Hardware and Software Specifications

The recommended hardware and software requirements are described in this section in order to deploy and run the ETF Analysis System User Module efficiently. These requirements give our consumers the best possible speed, scalability, and security.

1.3.1 Hardware Specifications:

- **CPU:** A minimum of a quad-core processor, such as an AMD Ryzen 5 or an Intel Core i5, is required. This guarantees that concurrent user requests are handled effectively, particularly during periods of high traffic.
- **RAM:** 16 GB of RAM at minimum. This offers enough RAM for user data processing, sophisticated computations, and real-time data analysis.
- **Storage:** A solid state drive (SSD) with sufficient room for storing data. When compared to conventional HDDs, SSDs provide noticeably quicker data access rates, which enhances system responsiveness and performance.
- **Internet:** dependable and fast internet access. Real-time data feeds, user authentication, and prospective upgrades or integrations with outside systems all depend on this.
- **Network:** Infrastructure for a safe and expandable network. Data transit between servers, client devices, and external data sources should be handled by the network effectively. Ensuring the integrity of the system and protecting user data requires strong security measures.

1.1.2 Software Specifications:

- **Operating System:** Microsoft Windows Server is a reliable and secure server operating system (long-term support version recommended). Although Linux versions have robust security protections, Windows Server gives administrators a more comfortable environment and is compatible with a wide range of widely used web building tools. Selecting a version with long-term support is essential to guaranteeing regular security updates and fixes.
- **Web Framework:** Django is the name of the web framework. It is advised to stick using Django in production as the project is being constructed because of its scalability, security features, and quick development times.
- **Database Management System:** MySQL Workbench is the database management system. Because MySQL Workbench is used for database administration in this project, it is advised to keep consistency in the production environment.
- **Programming Languages:** Python is the main language used for Django programming, whereas SQL is used for database connectivity.

These guidelines offer a framework for implementing the ETF Analysis System User Module in an efficient manner. To guarantee maximum speed and scalability, they might need to be modified depending on the expected user base and usage patterns.

CHAPTER 2

SYSTEM ANALYSIS

CHAPTER 2: SYSTEM ANALYSIS

2.1 Problem Analysis

The market for exchange-traded funds (ETFs) presents an alluring route to development and diversity, but successfully navigating it necessitates overcoming a number of complex obstacles. Let's take a deeper look:

1. **Information Overload:** Investors are constantly inundated with financial data, making it challenging to discern between reliable sources and unimportant noise. Particularly at risk are newcomers, who find it difficult to locate trustworthy information and convert it into useful insights for wise investing choices.
2. **Knowledge Gap:** Experienced and inexperienced investors have vastly different levels of knowledge. Competent players make efficient use of their knowledge of investment strategies and market trends to navigate the market. However, novices frequently lack the basic knowledge necessary to understand data and market trends. This discrepancy prevents them from taking full use of the ETF market's potential.
3. **Behavioral Biases:** The best investing choices are made objectively and analytically. However, behavioral biases provide a barrier that comes with human psychology. An investor's judgment may be impaired by fear, enthusiasm, or overconfidence, which can cause them to make snap judgments that diverge from wise investing techniques. These innate biases are frequently ignored by traditional investing systems, making investors susceptible to their impact and perhaps endangering their long-term financial objectives.
4. **Operational Inefficiencies:** There may be several operational inefficiencies on traditional investing platforms. Investors confront major obstacles when it comes to making quick and smart decisions based on real-time market movements, such as clumsy interfaces and manual processes. This lack of flexibility may result in lost investment opportunities or make it more difficult to respond quickly to changes in the market.
5. **Security Concerns:** For investors, the digital world is a double-edged sword. Although it offers never-before-seen access to financial possibilities, it also gives rise to legitimate worries around data security. The persistent risk of fraudulent activities and data breaches can have a depressing effect, causing confidence to decline in the world of digital investments. This fear may serve as a substantial deterrent to entrance, turning off prospective investors from ever engaging in the ETF market.

The ETF Analysis System User Module seeks to address these challenges, empowering investors with the knowledge, tools, and a secure environment for confident navigation of the ETF market.

2.2 Feasibility Study

This feasibility study assesses the viability of the ETF Analysis System User Module as a standalone product or integrated feature within a broader financial platform. It evaluates the project's economic, technical, behavioral and operational feasibility to determine its potential for success.

2.2.1 Economical feasibility:

For this project, economic feasibility is a crucial factor. Our development strategy is intended to be economical, with a goal of keeping the overall project cost between ₹30,000 and ₹40,000.

- **Development Costs:**
  - The development team of 3 developers will work for a period of 4 months, keeping personnel expenses manageable. The estimated cost is ₹30 thousand (₹3 thousand/month/developer * 3 developers * 4 months).
  - Technology costs are minimized by leveraging open-source technologies.

- **Ongoing Costs:**
  - Cloud-based server solutions can provide a cost-effective option for server maintenance (estimated cost: ₹5,000 - ₹10,000 per month).
  - Exploring free data feed options with usage limitations can further reduce costs (estimated cost: ₹0 - ₹5,000 per month). Careful selection will ensure essential data is still accessible.

- **Revenue Model:**
  - A freemium model with basic functionalities offered for free and premium features accessible through a monthly subscription (e.g., ₹249/month for gold subscription) can be a viable strategy.
  - A pay-per-use model for specific features like in-depth analysis reports (e.g., ₹299 per report) can be explored.

2.2.2 Technical feasibility:

The ETF Analysis System User Module leverages readily available and well-established technologies, fostering a high degree of technical feasibility. Here's a breakdown of the core development stack and its advantages:

- **Programming Language: Python**
    - Python's popularity and extensive ecosystem make it a perfect choice. Its readability and vast libraries for data analysis, web development, and user interface creation (like Django) streamline development.
- **Web Framework: Django**
    - Django, a high-level Python web framework, provides a robust foundation for building complex web applications. Its security features, scalability, and rapid development capabilities make it ideal for this project.
- **Databases:**
    - Depending on project requirements, a relational database management system (RDBMS) like PostgreSQL or a NoSQL database like MongoDB could be utilized. These offer efficient data storage and retrieval for user information, market data, and analysis results.
- **Front-End Technologies:**
    - HTML, CSS, and JavaScript are the cornerstones of user interface development. These well-established technologies allow for creating a user-friendly and visually appealing interface that caters to various devices.

Additional Considerations:

- **Security:**
    - Implementing robust security measures, including user authentication, data encryption, and secure coding practices, is paramount. This ensures user data and financial information remain protected from unauthorized access.

2.2.3 Behavioral feasibility:

User confidence is given priority by the ETF Analysis System User Module through behavioral considerations:

a. **Frictionless Onboarding:** A simplified registration procedure with unambiguous guidelines will reduce user annoyance and promote involvement. Badges earned for finishing educational modules are examples of gamification components that might increase engagement.
b. **Personalized Investment Journey:** Depending on a user's needs and risk tolerance, the system will customize their experience. Investors will be assisted in making wise judgments by tailored watchlists, carefully chosen news feeds, and focused instructional materials.
c. **Decision Support Tools:** Before investing actual money, investors may see the possible effects of various investment strategies thanks to interactive features like scenario modeling. This gives customers the ability to make thoughtful decisions that are in line with their long-term financial objectives.
d. **Building Community:** By include tools like discussion boards and Q&A sessions with financial experts, the platform may help to create a feeling of community. This lessens feelings of loneliness among users as they navigate the financial world by enabling them to learn from each other's experiences.

The ETF Analysis System User Module creates an environment that allows users to make knowledgeable investing decisions by addressing these behavioral elements.

2.2.4 Operational feasibility:

The operating efficiency and secure environment are the design goals of the ETF Analysis System User Module:

a. **Automated Data Feeds and Analytics:** By combining real-time data integration with automated analytics, human data entry is eliminated and investors are given access to the most recent data possible to make well-informed decisions.

b. **Smooth Integration with Current Tools:** The system will be made to seamlessly interact with widely used financial tools and apps, giving users the ability to manage their investments on a single, centralized platform for increased productivity and decreased complexity.

c. **Cloud-Based Infrastructure:** Making use of a secure cloud infrastructure leads to a user-friendly experience by assuring scalability, data redundancy, and ease of access from any device.

d. **Routine Backups and Disaster Recovery:** In order to preserve business continuity and user confidence, comprehensive backup and disaster recovery procedures should protect user data and reduce downtime in the event of unanticipated events.

The ETF Analysis System User Module ensures a safe, effective, and intuitive platform that enables investors of all skill levels by giving these operational elements top priority.

2.3 Data Flow Diagram

a. Level – 0 DFD:

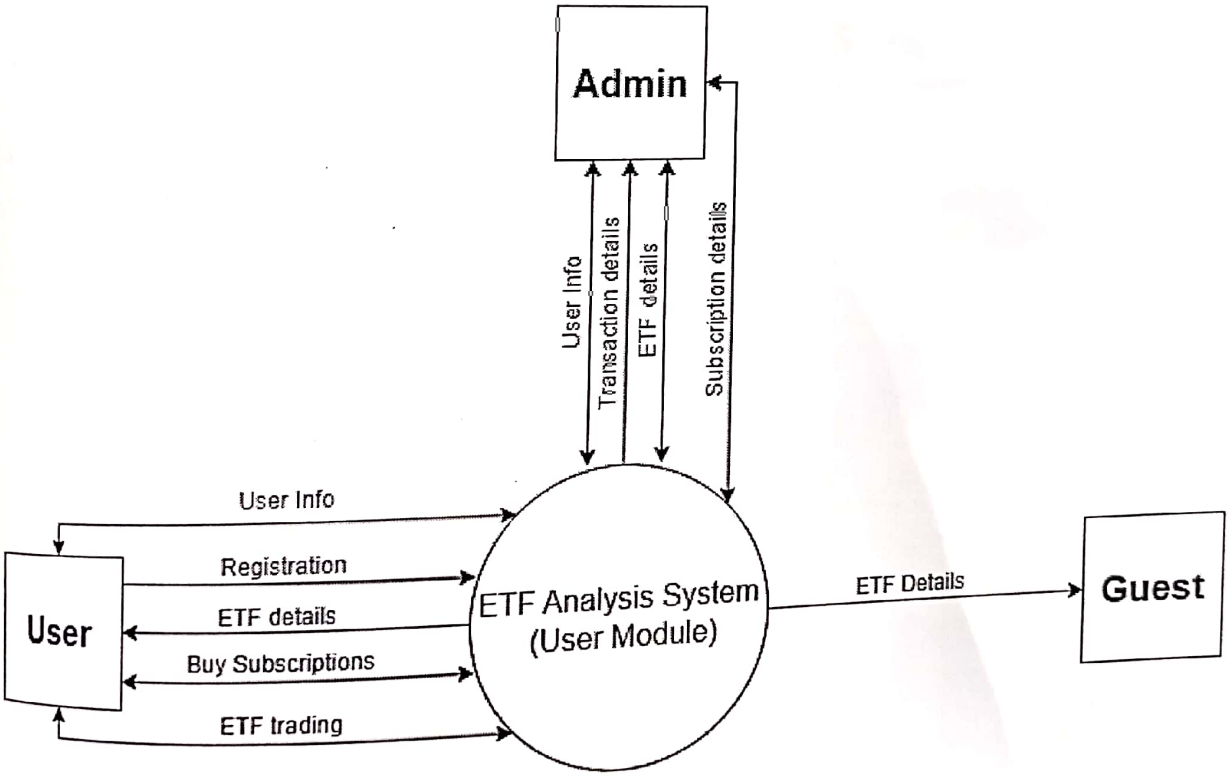


Figure 1 Level-0 DFD

b. Level – 1 DFD:

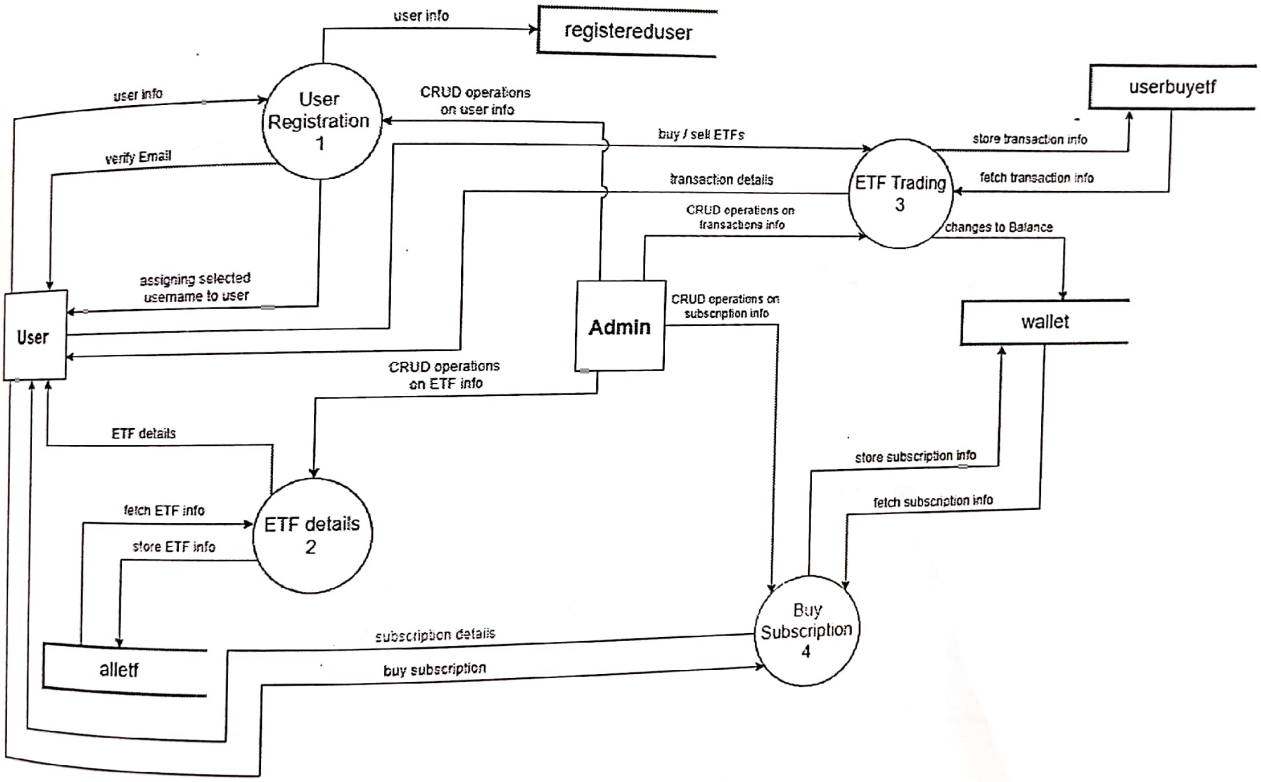


Figure 2 Level-1 DFD

c. Level – 2 DFD for Process 1:

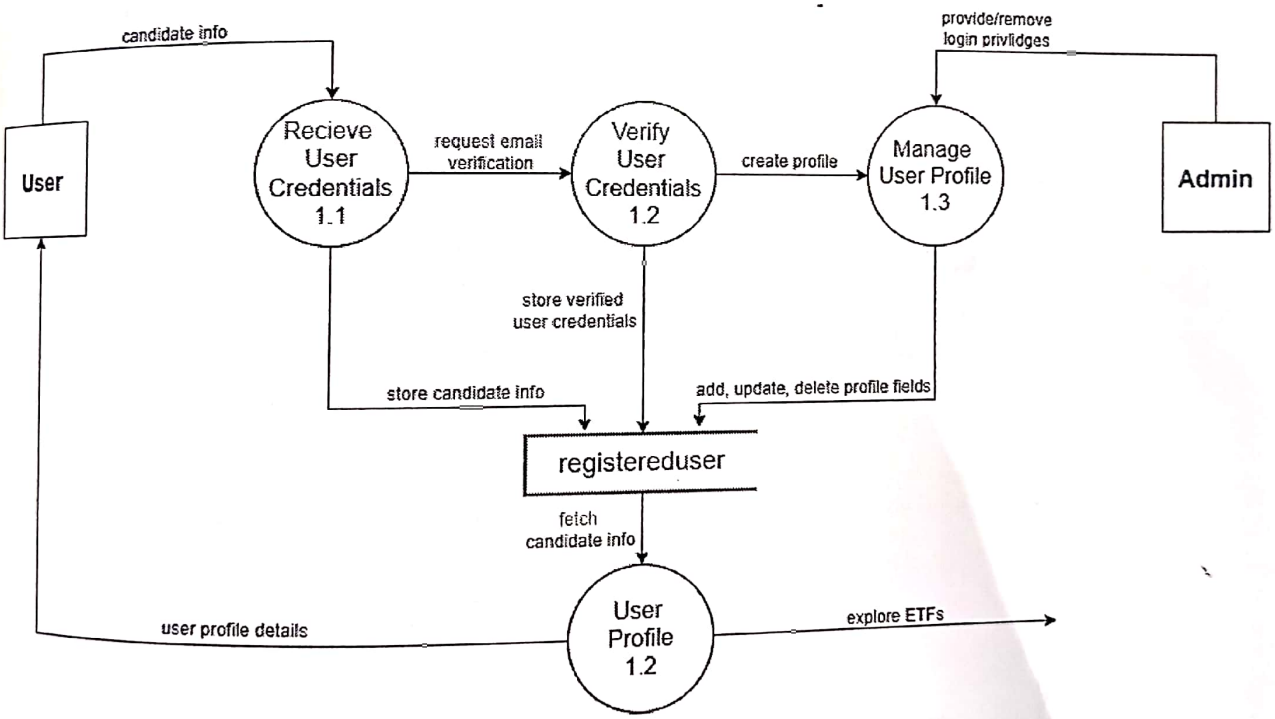


Figure 3 Level-2 DFD for Process 1

d. Level – 2 DFD for Process 3:

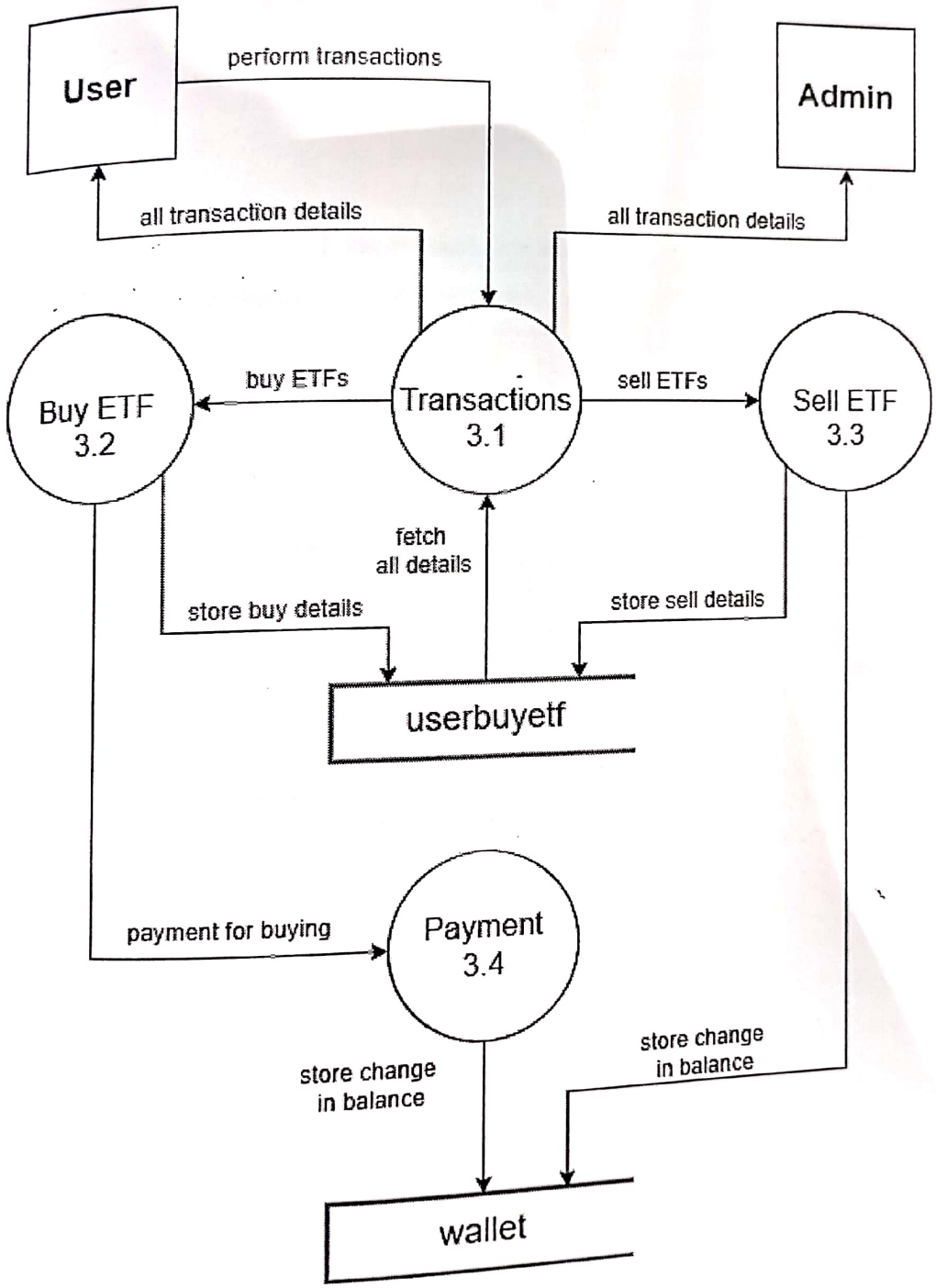


Figure 4 Level-2 DFD for Process 3

e. Level – 2 DFD for Process 4:

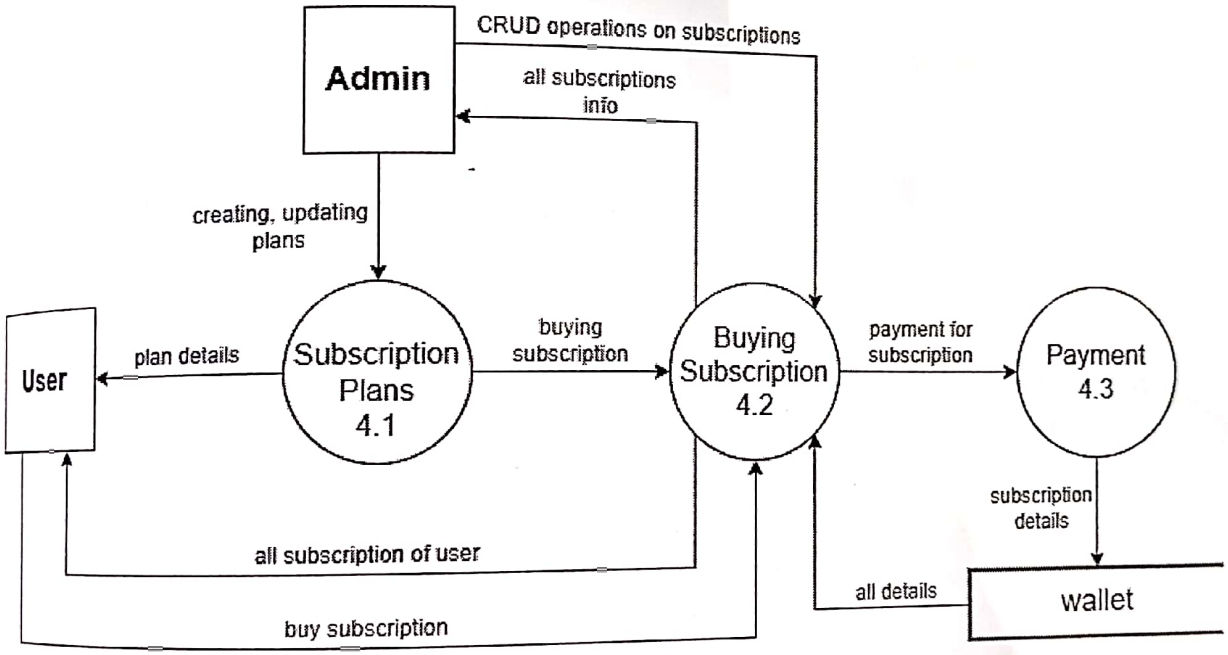


Figure 5 Level-2 DFD for Process 4

CHAPTER 3

SYSTEM DESIGN

CHAPTER 3: SYSTEM DESIGN

3.1 Database Tables:

a) registereduser

S.no	Field	Type	Constant
1.	username	Varchar (50)	Primary key
2.	name	Varchar (50)	-
3.	email	Varchar (70)	-
4.	date_of_birth	Date	-
5.	phone_number	Bigint (10)	-
6.	login_status	Tinyint (1)	-
7.	is_verified	Tinyint (1)	-
8.	token	Varchar (100)	-
9.	password	Varchar (50)	-

Table 1 registereduser Table

b) alletf

S.no	Field	Type	Constant
1.	Etfnames	Varchar (225)	Primary key
2.	open	Double (20)	-
3.	high	Double (20)	-
4.	low	Double (20)	-
5.	close	Double (20)	-
6.	asset_type	Varchar (20)	-

Table 2 alletf Table

c) wallet

S.no	Field	Type	Constant
1.	subs_id	Bigint (20)	Primary key
2.	balance	Decimal (17)	-
3.	username	Varchar (254)	Foreign key
4.	period	Varchar (10)	-
5.	sub_status	varchar (20)	-
6.	end_date	Date	-
7.	remaining_days	Int (11)	-
8.	start_date	Date	-
9.	sub_amount	int(10)	-

Table 3 wallet Table

d) userbuyetf

S.no	Field	Type	Constant
1.	trans_id	Bigint (20)	Primary key
2.	Tdate_time	Datetime	-
3.	Quantity	Double (22)	-
4.	Cost	Double (22)	-
5.	Etfnames	varchar (225)	Foreign key
6.	username	Varchar (225)	Foreign key
7.	Purchase_close_value	Double (22)	-
8.	trans_type	Varchar (20)	-

Table 4 userbuyetf Table

e) payment

S.no	Field	Type	Constant
1.	payment_id	int	Primary key
2.	amount	int (10)	-
3.	Pdate_time	Datetime	-
4.	subs_id	int (10)	Foreign key
5.	trans_id	int (10)	Foreign key
6.	username	Varchar (50)	Foreign key
7.	payment_method	Varchar (50)	-
8.	status	tinyint (4)	-

Table 5 payment Table

3.2 Entity Relationship Diagram:

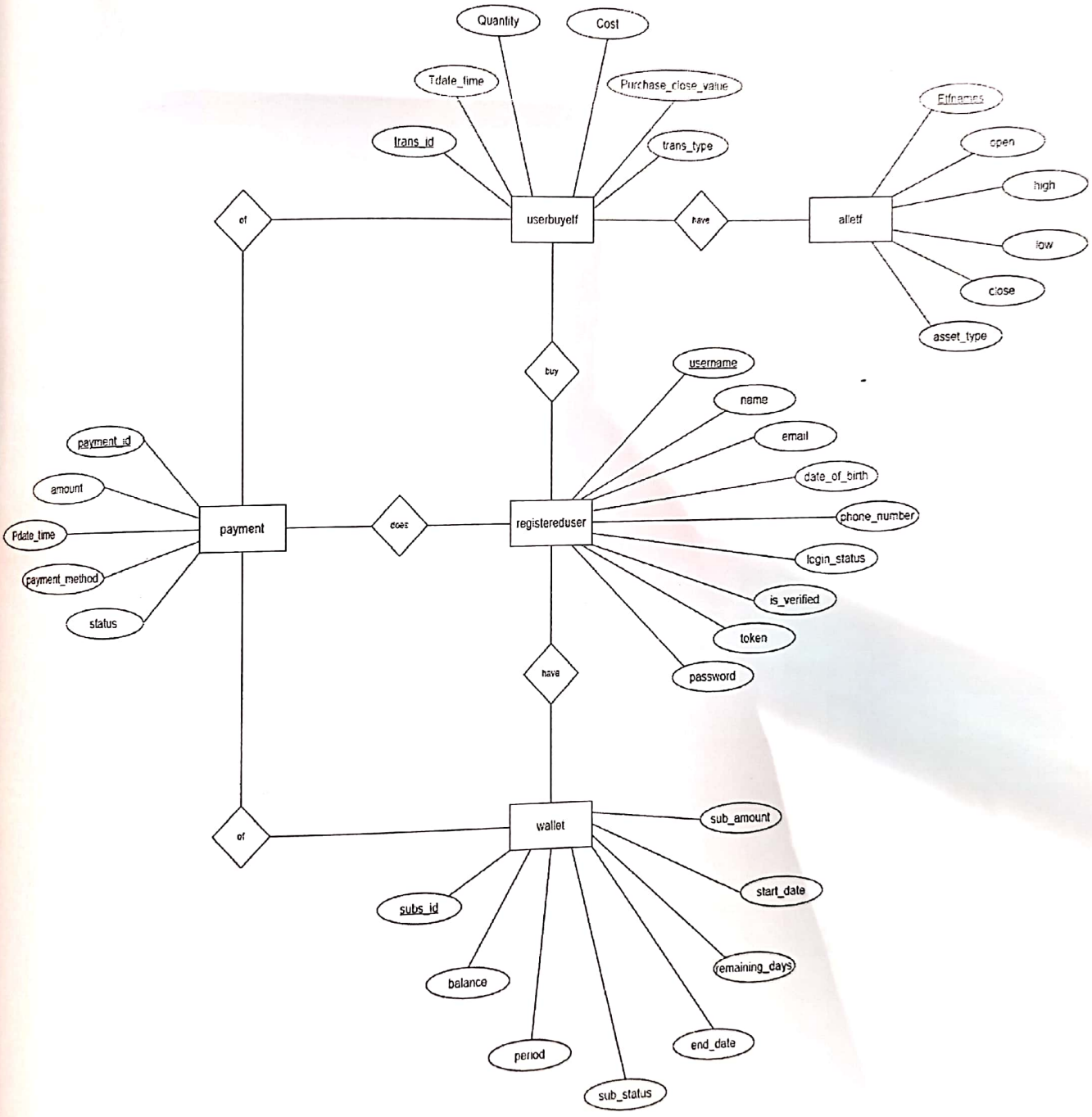


Figure 6 ER-Diagram

CHAPTER 4

TESTING

CHAPTER 4: TESTING

4.1 Unit Testing

We conducted unit testing on every small component individually to ensure its functionality. We utilized various test data to verify inputs and their corresponding outputs, covering different scenarios. This rigorous testing approach helps to improve the reliability and quality of the system, ensuring that each unit performs as intended before integration and deployment.

Test Case ID	Section	Element Name	Test Data	Expected Result	Actual Result
L1-1	admin_login	username, password	No Data	Please fill out the fields	Test case passed
L1-2	admin_login	username, password	99Admin****, adm****	Error occurred	Test case passed
L1-3	admin_login	username, password	admin, admi***	Successfully logged in	Test case passed
L2-1	registereduser_login	username, password	No Data	Please fill out the fields	Test case passed
L2-2	registereduser_login	username, password	Pajsd@/', sdsf*****	Error occurred	Test case passed
L2-3	registereduser_login	username, password	P1234, **** After checking your email verification has done and after you fill correct username and password	Successfully logged in	Test case passed

L3-1	guestuser_register	username,name, email, date_of_birth, phone_number, password	No Data	Please fill out the fields	Test case passed
L3-2	guestuser_register	username,name, email, date_of_birth, phone_number, password	1234, 1234, adwa@fafaf, 07/03/2024, 9876, *****	Error occurred	Test case passed
L3-3	guestuser_register	username,name, email, date_of_birth, phone_number, password	P1234, Prashant, gourpras****@*****.com, 07/03/2002, 8827179110, *******	Successfully registered	Test case passed
L4-1	userbuyetf	ub_id,Tdate_time, Quantity,cost, Etfnames,username, purchase_close_value, trans_type	No Data	Please fill out the field	Test case passed
L4-2	userbuyetf	ub_id,Tdate_time, Quantity,cost, Etfnames,username, purchase_close_value, trans_type	18:20 10/04/2024, 2, ..?, ..., buy/sell	Error occurred	Test case passed
L4-3	userbuyetf	ub_id,Tdate_time, Quantity,cost, Etfnames,username, purchase_close_value, trans_type	18:20 10/04/2024, 2, 108, 54, buy/sell.	Successfully traded ETF.	Test case passed

Table 6 Unit Testing

4.2 Usability testing

Objectives:

The results of a usability test on the ETF Analysis System User Module are compiled in this report. Testing was done with the intention of assessing the system's general usability, effectiveness, and friendliness for prospective investors.

Methodology:

- **Participants:** Four participants were recruited for the testing session. The participants varied in their level of experience with ETFs, ranging from beginners with limited knowledge to more experienced investors.
- **Tasks:** Participants were given a set of tasks to complete using the ETF Analysis System User Module. These tasks included tasks related to:
    - Account registration and profile creation
    - Exploring and filtering ETF options
    - Utilizing educational resources and investment tools
    - Creating a watchlist and simulating investment scenarios
- **Data Collection:** The testing session was conducted in a controlled environment. A moderator observed participants as they interacted with the system and asked them to think aloud about their thought processes. Additionally, a post-test survey was conducted to gather further feedback.

Summary of Findings:

- **User-Friendliness and Efficiency**
    - Overall, participants found the system to be user-friendly with an intuitive interface. Most participants were able to complete the assigned tasks with minimal assistance.
    - The navigation was clear and easy to understand, with logical placement of menus and functionalities.
    - Some participants with limited experience in financial markets suggested additional tooltips or introductory tutorials for specific features.
- **Information Access and Clarity**
    - Participants found the presented information on ETFs to be clear and concise.
    - The use of visualizations (charts, graphs) was praised for aiding understanding of complex financial data.
    - A few participants suggested including a glossary of financial terms within the system for quick reference.
- **Investment Tools and Functionality**
    - The watchlist feature was well-received, allowing users to easily track desired ETFs

- The scenario modeling tool was found to be helpful for visualizing potential investment outcomes. Some participants suggested incorporating risk tolerance assessments to personalize these simulations further.
- A couple of participants encountered minor technical glitches while using the simulation tool. These issues will be investigated and addressed.

- **User Confidence and Decision Making**
  - Participants felt that the system empowered them to make more informed investment decisions. The educational resources and investment tools fostered a sense of knowledge and control.
  - Some participants suggested incorporating features that connect users with financial advisors for personalized guidance, especially for beginners.

Overall Impression:

The usability testing results were positive, indicating that the ETF Analysis System User Module is on the right track. Participants found the system to be user-friendly, informative, and helpful in making investment decisions.

4.3 Compatibility Testing

Introduction:

The results of the compatibility tests done on the ETF Analysis System User Module are compiled in this report. The purpose of the testing was to assess the system's usability and functioning across a range of hardware, operating systems, and web browsers.

Methodology:

- **Test Scope:** The testing focused on ensuring the system functions as expected across a range of supported platforms, including:
    - Operating Systems: Windows (latest and previous version), macOS (latest and previous version)
    - Web Browsers: Chrome (latest and previous version), Firefox (latest and previous version), Safari (latest version)
    - Devices: Desktop computers, tablets (Android, iPad), mobile phones (Android, iOS)
- **Test Techniques:** Manual testing was conducted on various devices and browsers to simulate real-world usage scenarios.

Summary of Findings:

The following table summarizes the compatibility testing results:

Platform	Functionality	User Experience
Operating Systems		
macOS (previous version)	All functionalities work as expected.	Minor layout inconsistencies observed, addressed for future updates.
macOS (previous version)	All functionalities work as expected.	Minor layout inconsistencies observed, addressed for future updates.
macOS (previous version)	All functionalities work as expected.	Minor layout inconsistencies observed, addressed for future updates.
macOS (previous version)	All functionalities work as expected.	Minor layout inconsistencies observed, addressed for future updates.

Web Browsers		
Chrome (latest)	All functionalities work as expected.	Smooth and responsive experience.
Chrome (previous version)	All functionalities work as expected.	Minor layout inconsistencies observed, addressed for future updates.
Firefox (latest)	All functionalities work as expected.	Smooth and responsive experience.
Firefox (previous version)	All functionalities work as expected.	Minor layout inconsistencies observed, addressed for future updates.
Devices		
Desktop Computers	All functionalities work as expected.	Smooth and responsive experience.
Tablets (Android, iPad)	All core functionalities work as expected.	Smooth and responsive experience.
Mobile Phones (Android, iOS)	All core functionalities work as expected.	Smooth and responsive experience.

Table 7 Compatibility Testing

CHAPTER 5

IMPLEMENTATION

CHAPTER 5: IMPLEMENTATION

We need to install some software for implementing our project which are as follows:

5.1 Visual Studio Code:

a) Go to the official Visual Studio website https://visualstudio.microsoft.com/downloads/
b) Click on the "Download" button for the version of Visual studio you want to install.
c) Choose the components you want to install, such as languages, frameworks, and tools.
d) Click on the "Install" button to start the installation process.
e) Follow the installation wizard and select the options that suit your needs.

5.2 MySQL Workbench:

a) First go to the official website of MySQL https://www.mysql.com/
b) There you will find the download button
c) Then click on MySQL community (GPL) downloads
d) Click on MySQL installer for windows
e) Click on the first download link
f) Then click on the custom button
g) Expand MySQL server then expand MySQL server 8.0
h) Then double click on the latest version
i) Click on next
j) Click on execute
k) Set your password click on next
l) Then automatically MySQL workbench window will open.

5.3 Install Python:

a) Django is a Python web framework, so you'll need Python installed on your system first.
b) Head over to https://www.python.org/downloads/ and download the latest version of Python that matches your operating system (Windows, macOS, or Linux).
c) Follow the on-screen installation instructions for your specific operating system.

5.4 Django installation and setup:

Django installation-

The detailed instructions for installing Django and creating a new project on your pc are provided below.

Step 1: Install Pip

Open the command prompt and enter the following command-

python -m pip install -U pip

Step 2: Set Virtual environment:

To set up a virtual environment, do the following:

Step 3: Create a virtual environment:

To build a virtual environment in Django, we need to first navigate to the directory where we want to create it. Then, we need to run the following command.

python -m venv env_site

Step 4: Turn on the virtual world: Launch the activation script from the virtual environment folder's bin directory.

Windows - users can use.\env_site\Scripts\activate.ps1

Step 5: Install Django:

Install django by giving following command

pip install Django

Django Setup –

Once Django is installed, we can start to create a new Django project.

Step 1: Start a new Django Project Start a project by following command-

django-admin startproject myproject

Step 2: Navigate to the Project Directory Change directory to myproject

cd myproject

step 3: Start the server

Start the server by typing following command in cmd-

py manage.py runserver

Step 4: Verify Server Status

To check whether server is running or not go to web browser and enter **http://127.0.0.1:8000/** as URL.

5.4 Python Web scraping

Step 1: Install yfinance:

If you haven't previously, you must first install the yfinance library. Using pip, you can accomplish this:

pip install yfinance

Step 2: Import yfinance: Add the yfinance library to your Jupyter Notebook or Python script:

import yfinance as yf

Step 3: Indicate the Ticker Symbol: Select the stock or financial instrument for which you wish to use data scraping. You will be required to supply its ticker symbol. For instance, if you wish to scrape data about Apple Inc., use "AAPL" as the ticker symbol.

Step 4: Get Historical Data: To obtain historical market data for the given ticker symbol, use the **yf.download()** method. The data you wish to obtain can have its start and end dates specified, along with additional characteristics like the interval (daily, weekly, monthly, etc.) **data=yf.download("AAPL",start="2023-01-01",end="2023-12-31")**

This will get Apple Inc.'s historical market data for 2023.

Step 5: Error Management: It's critical to manage mistakes amicably, particularly when addressing web scraping. Ensure that you handle situations in which the connection fails or the ticker symbol is invalid.

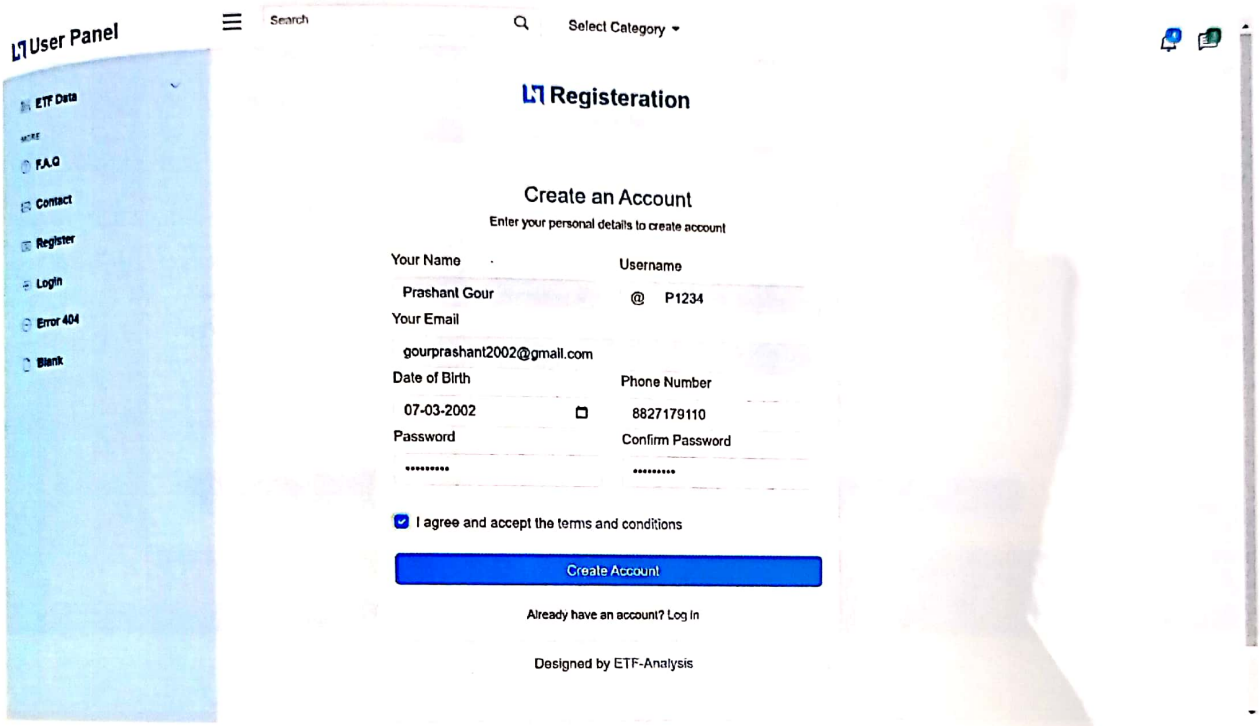
Step 6: Data Storage: Depending on your use case, you may wish to keep the data that was scraped for later usage in a file or database.

CHAPTER 6

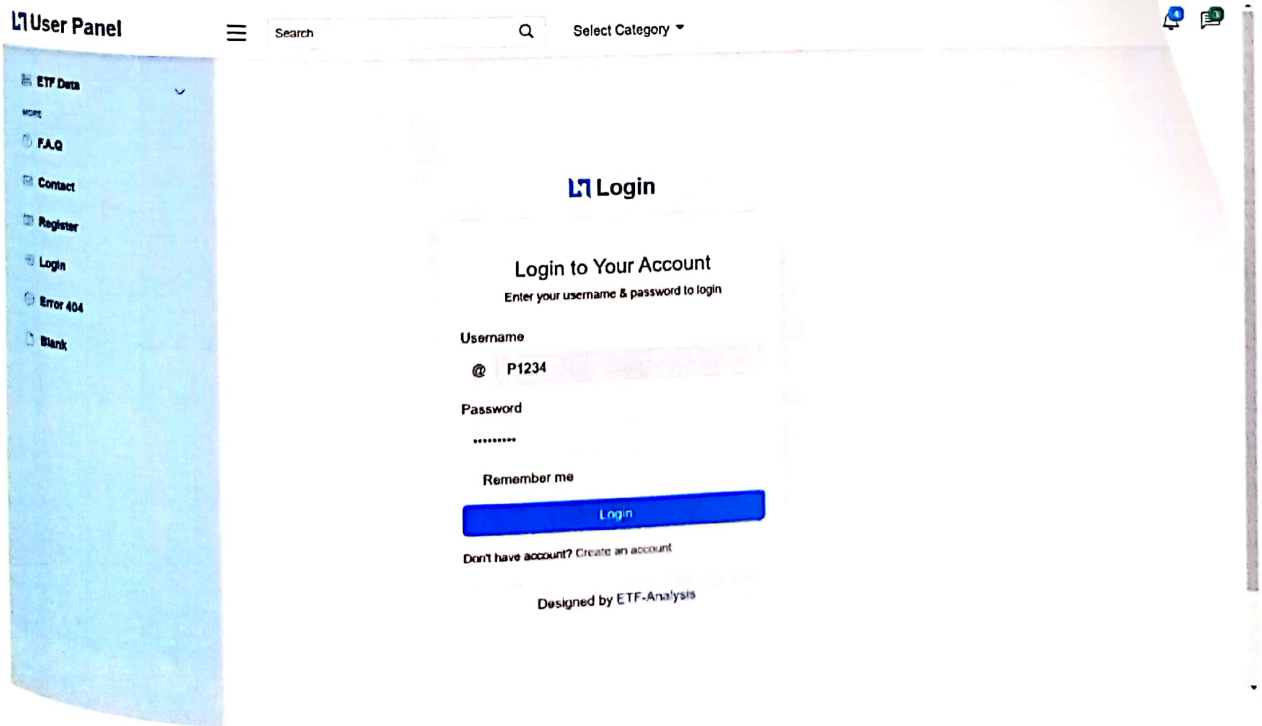
SAMPLE FORMS AND REPORTS

CHAPTER 6: SAMPLE FORMS AND REPORTS

6.1 User Registration Form

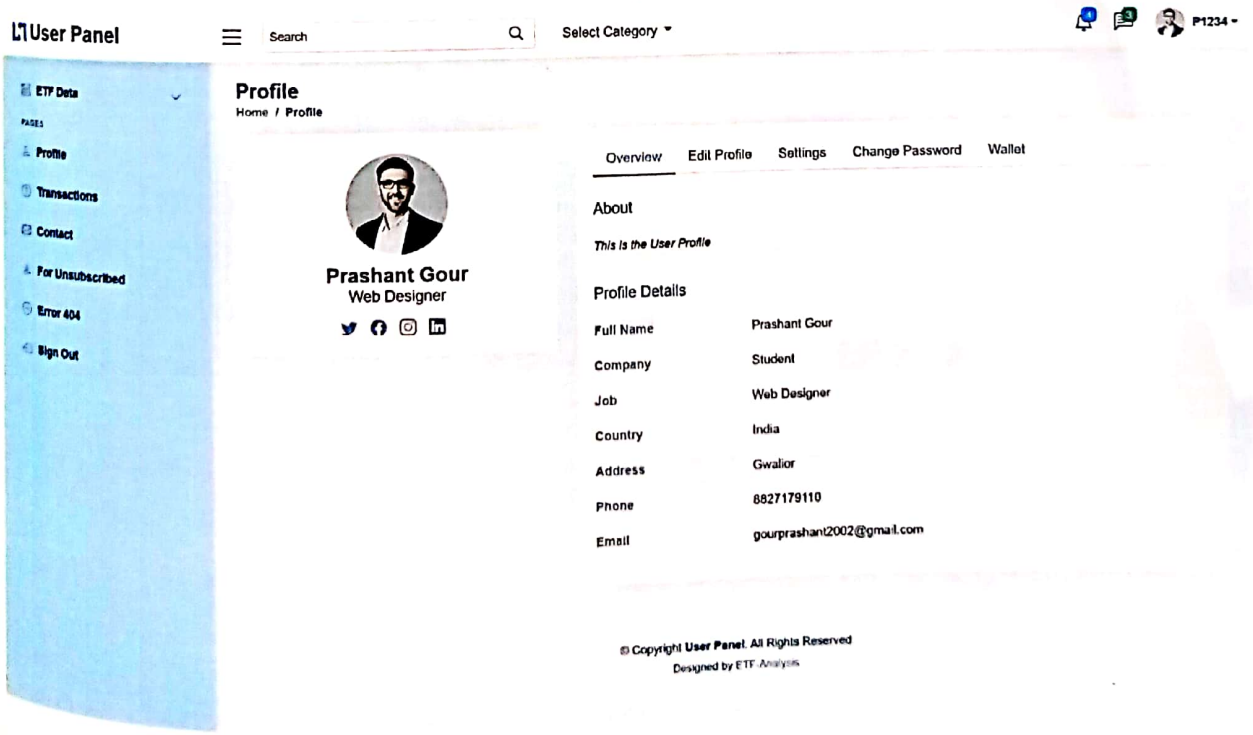


6.2 User Login Form

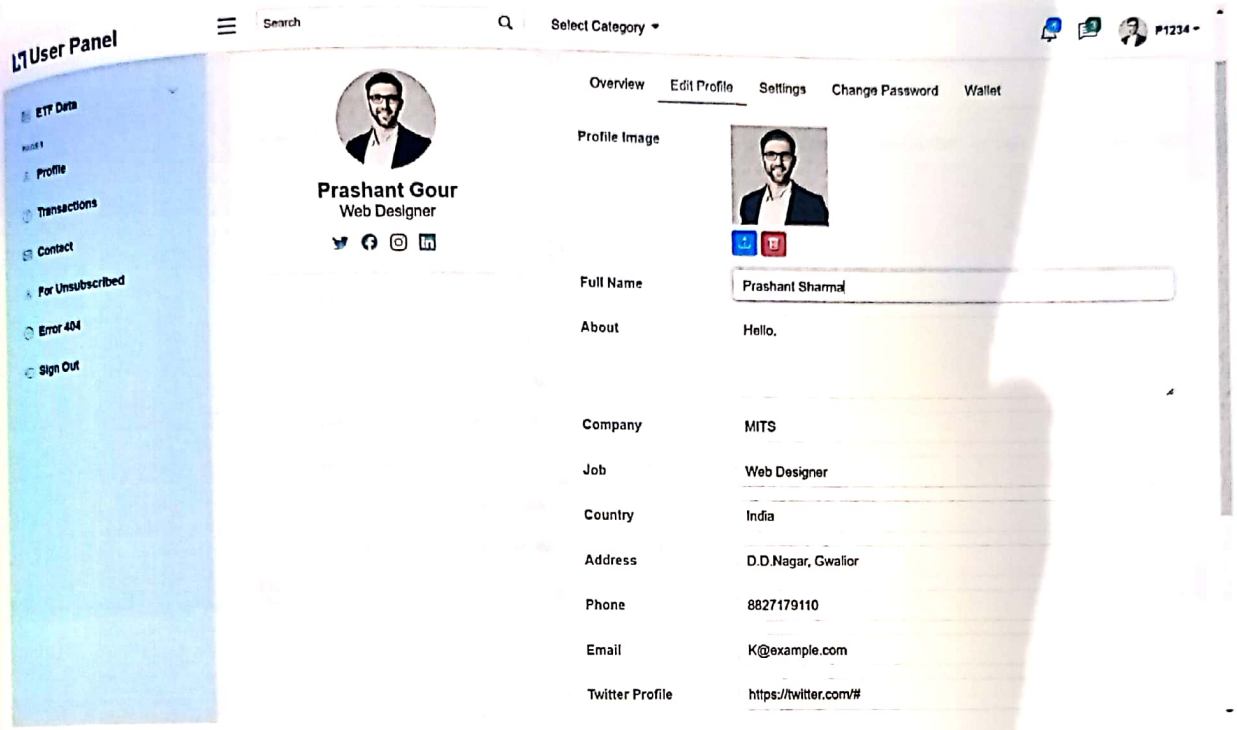


6.3 Subscription Plans Table

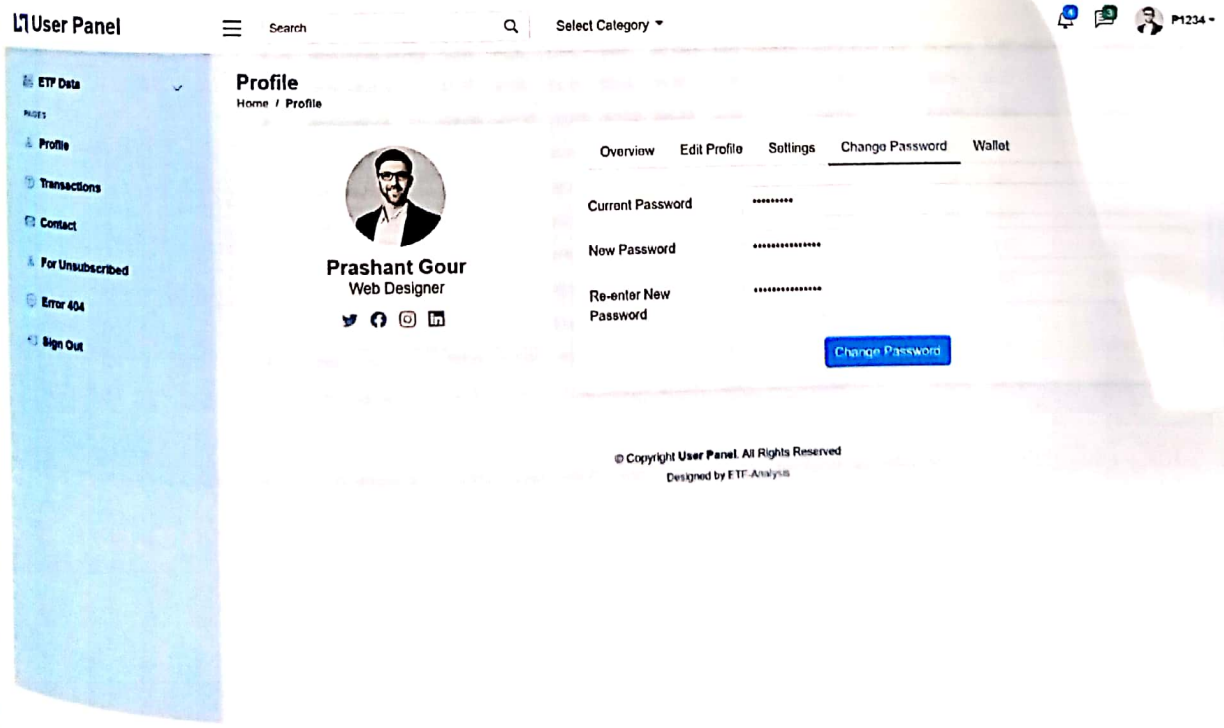
6.4 User Profile



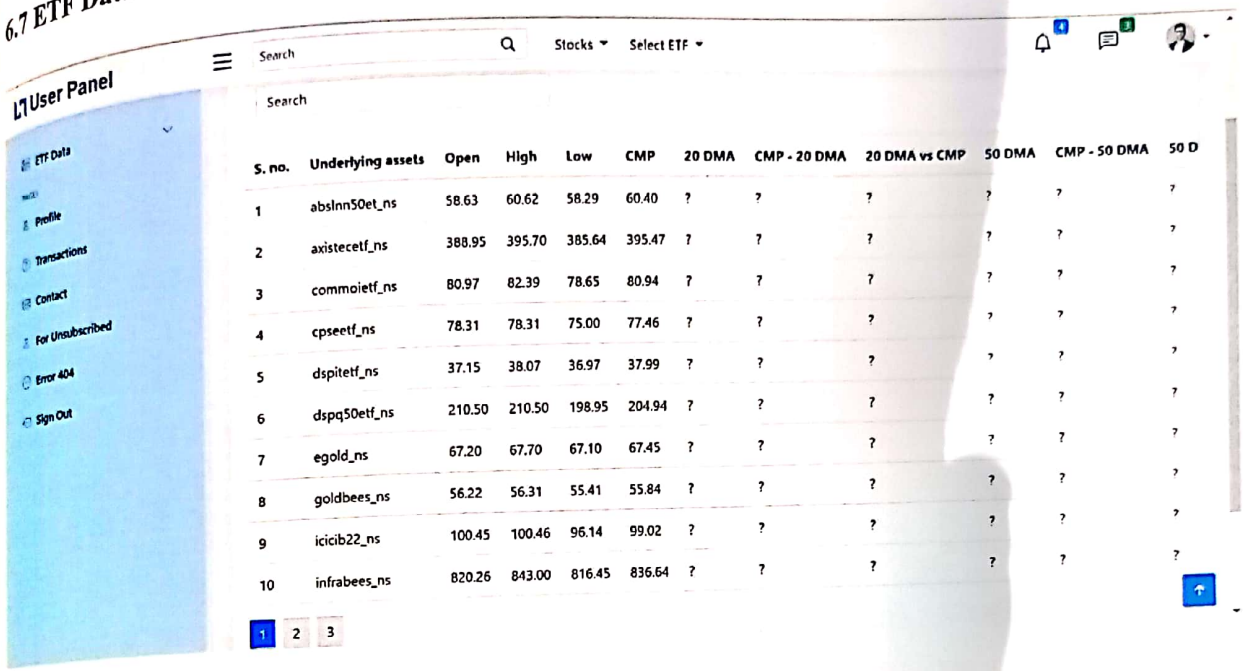
6.5 Edit User Details Form



6.6 Change User Password Form



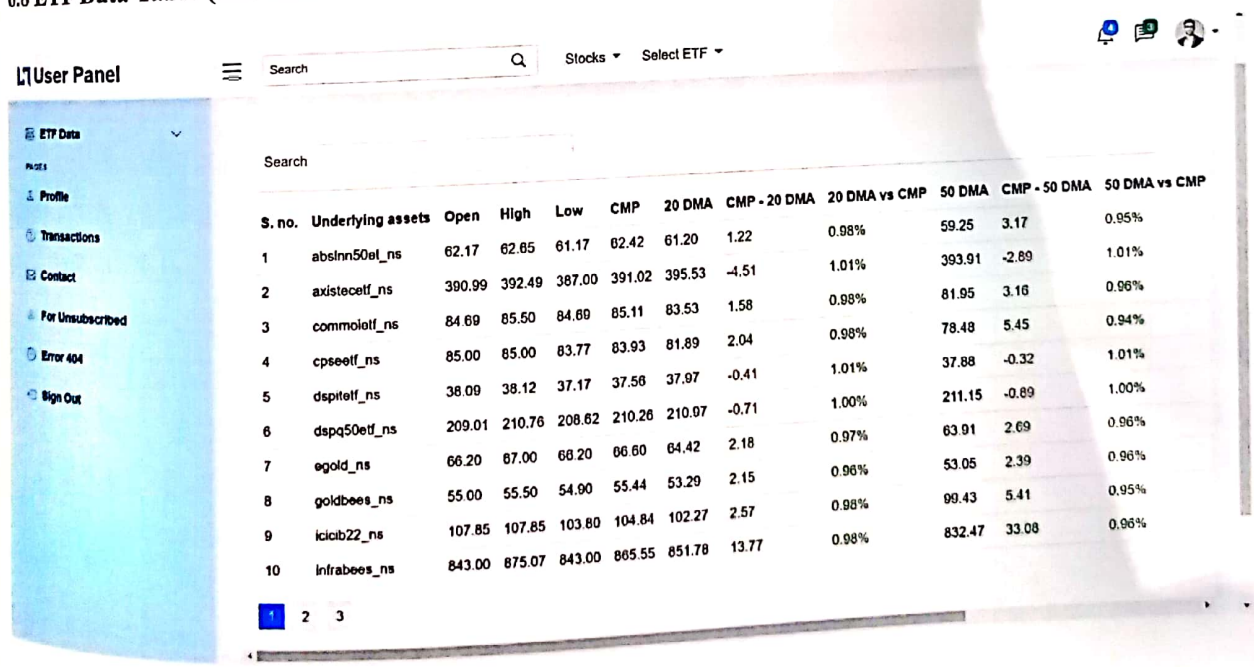
6.7 ETF Data Table (For Unsubscribed Users)



S. no.	Underlying assets	Open	High	Low	CMP	20 DMA	CMP - 20 DMA	20 DMA vs CMP	50 DMA	CMP - 50 DMA	50 D
1	abslnn50et_ns	58.63	60.62	58.29	60.40	?	?	?	?	?	?
2	axistecetf_ns	388.95	395.70	385.64	395.47	?	?	?	?	?	?
3	commoietf_ns	80.97	82.39	78.65	80.94	?	?	?	?	?	?
4	cpseetf_ns	78.31	78.31	75.00	77.46	?	?	?	?	?	?
5	dspitetf_ns	37.15	38.07	36.97	37.99	?	?	?	?	?	?
6	dspq50etf_ns	210.50	210.50	198.95	204.94	?	?	?	?	?	?
7	egold_ns	67.20	67.70	67.10	67.45	?	?	?	?	?	?
8	goldbees_ns	56.22	56.31	55.41	55.84	?	?	?	?	?	?
9	icicib22_ns	100.45	100.46	96.14	99.02	?	?	?	?	?	?
10	infrabees_ns	820.26	843.00	816.45	836.64	?	?	?	?	?	?

1 2 3

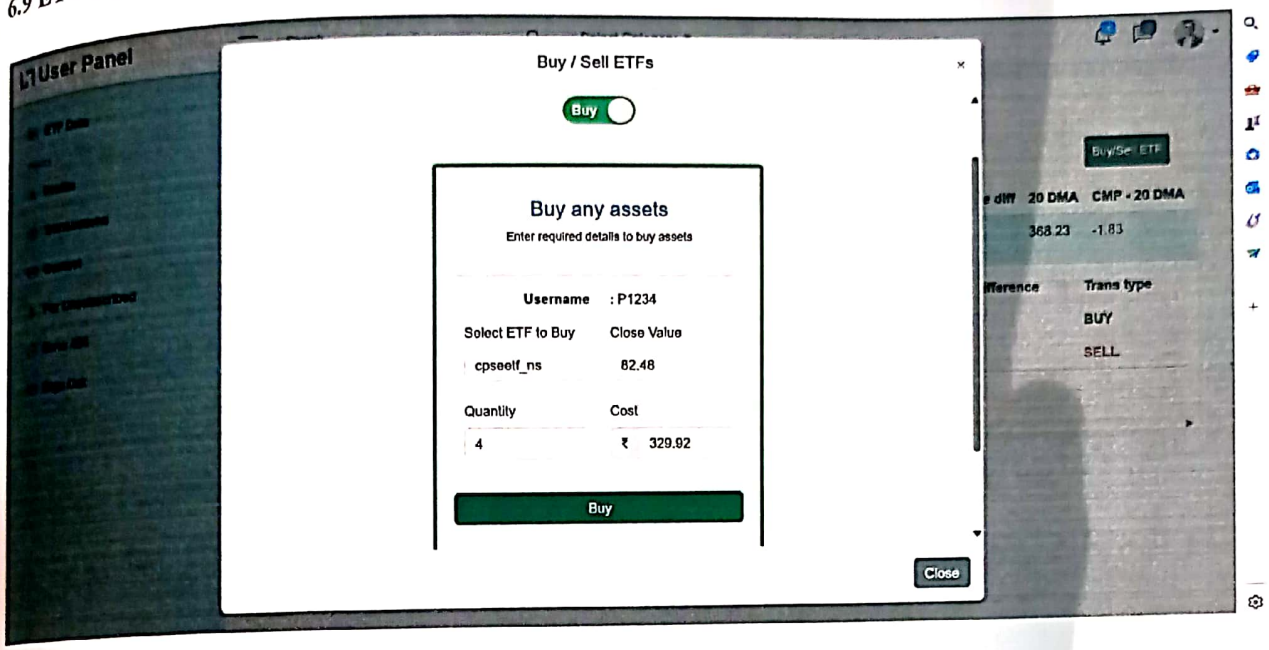
6.8 ETF Data Table (For Subscribed Users)



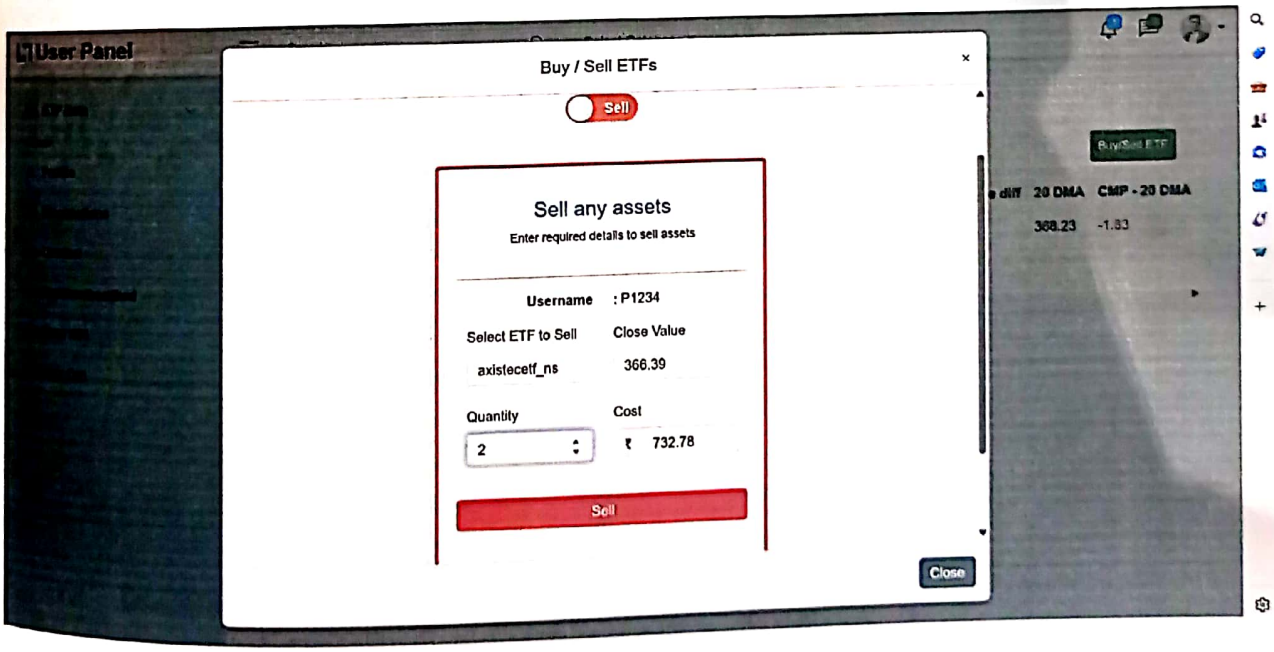
S. no.	Underlying assets	Open	High	Low	CMP	20 DMA	CMP - 20 DMA	20 DMA vs CMP	50 DMA	CMP - 50 DMA	50 DMA vs CMP
1	abslnn50et_ns	62.17	62.65	61.17	62.42	61.20	1.22	0.98%	59.25	3.17	0.95%
2	axistecetf_ns	390.99	392.49	387.00	391.02	395.53	-4.51	1.01%	393.91	-2.89	1.01%
3	commoietf_ns	84.69	85.50	84.69	85.11	83.53	1.58	0.98%	81.95	3.16	0.96%
4	cpseetf_ns	85.00	85.00	83.77	83.93	81.89	2.04	0.98%	78.48	5.45	0.94%
5	dspitetf_ns	38.09	38.12	37.17	37.56	37.97	-0.41	1.01%	37.88	-0.32	1.01%
6	dspq50etf_ns	209.01	210.76	208.62	210.26	210.97	-0.71	1.00%	211.15	-0.89	1.00%
7	egold_ns	66.20	67.00	66.20	66.60	64.42	2.18	0.97%	63.91	2.69	0.96%
8	goldbees_ns	55.00	55.50	54.90	55.44	53.29	2.15	0.96%	53.05	2.39	0.96%
9	icicib22_ns	107.85	107.85	103.80	104.84	102.27	2.57	0.98%	99.43	5.41	0.95%
10	infrabees_ns	843.00	875.07	843.00	865.55	851.78	13.77	0.98%	832.47	33.08	0.96%

1 2 3

6.9 ETF Buy Form



6.10 ETF Sell Form



CHAPTER 7

CONCLUSION

CHAPTER 7: CONCLUSION

Conclusion

The ETF Analysis System User Module is the result of a project whose goal was to close the knowledge gap between knowledgeable investors and their needs. All levels of investors are empowered by this user-focused platform.

A lot of attention was paid to creating an intuitively navigable user interface. This guarantees that users will be able to fully utilize the system's functionalities, access information with ease, and navigate its features with comfort. The system incorporates educational resources with ease, acknowledging the significance of financial literacy. Users can now confidently and with knowledge navigate the world of ETFs thanks to this.

Integrating real-time data is essential to the user experience. The system gives users current information and market insights so they can make well-informed investment decisions supported by data-driven analysis. Furthermore, the incorporation of investment tools such as scenario modeling and watchlists allows users to customize their investment strategies. While scenario modeling helps users visualize possible outcomes based on different market fluctuations, watchlists allow for targeted market monitoring and promote educated risk management.

Security in the context of financial applications is still very important. User data security is given top priority by the ETF Analysis System User Module, which employs strong authentication procedures and data encryption techniques. This unwavering dedication to security builds user trust and provides a secure setting for researching and making investment decisions.

The project's success is further highlighted by the rigorous testing stages that were carried out. Testing for usability, validation, systems, and compatibility yielded priceless information that will be used to improve the user experience going forward. Through implementation of the suggestions derived from these tests, the ETF Analysis System User Module is prepared for ongoing enhancement. Subsequent versions may investigate functionalities such as incorporation with financial advisors to provide customized advice. Incorporating gamification elements can enhance user engagement and motivate users during their investment journeys.

The ETF Analysis System User Module is more than just a platform; it's a user-focused entry point to the ETF market. Investors are empowered to confidently navigate the financial landscape through the promotion of financial literacy and the cultivation of informed decision-making. There is hope for the financial services sector because of this system's ability to democratize investment opportunities and produce a new generation of financially astute people.

Future works

The ETF Analysis System User Module is off to a great start, but there's always room for improvement! Here are some exciting ideas we are considering to enhance the user experience and make the platform even more valuable for investors:

a) Getting in Touch with Financial Experts:

- We want to see if we can incorporate a feature that sets users up with certified financial advisors. Depending on the needs of the user, a tiered system providing basic consultations or premium access to advisors could be implemented. In this manner, users can easily access personalized guidance whenever they need it.

b) Gamifying the Investing Process:

- Including gamification elements in your content could be a fun way to keep users motivated and involved. I'm considering instituting leader-boards to promote a spirit of friendly competition, developing challenges for constructing diversified portfolios, or awarding badges for finishing educational modules. This could enhance the interactive and rewarding nature of learning about investing.

c) Creating an Investor Community:

- One useful tool could be a forum where participants can talk about investing techniques, exchange ideas, and gain knowledge from one another's experiences. For first-time investors, this sense of community may be immensely empowering.

d) Exploring the Potential of AI:

- Artificial intelligence (AI) holds the key to further customization of the user experience. We're looking into the possibilities of using AI to offer customized investment recommendations, assess risk tolerance and user behavior, and make recommendations for automated portfolio management. This has the potential to revolutionize investing for those seeking a more detached strategy.

These are just a few of the concepts we are considering for the ETF Analysis System User Module in the future. We think the platform can develop into a thorough and user-focused resource that enables investors of all experience levels to accomplish their financial objectives by adding these features. We're eager to keep working on this project and would appreciate any input from our users.

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Summary

FORMAT

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Name of student	Prashant Gour		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	02/01/24-15/01/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work				✓	
Behaviour/Discipline/Team work			✓		
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	Learn HTML, CSS and Javascript				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT**				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

PRAEDICO GLOBAL RESEARCH PVT. LTD. PGR GWALIOR BRANCH

Receiving Date	16/01/24	**Name of Faculty Mentor**	Dr. Anshu Chaturvedi	**Sign**	

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Prashant Gaur		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	16/01/24-31/01/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work				✓	
Behaviour/Discipline/Team work			✓		
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Learn BootStrap, Advance Javascript (ES6), Introduction of React				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT** ✓				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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Receiving Date	22/4/24	Name of Faculty Mentor	Dr. Akhilesh Chaturvedi	Sign	

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Prashant Gour		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd		Date/Duration	01/02/24 - 15/02/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work				✓	
Behaviour/Discipline/Team work			✓		
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	React setup, Component, Hooks, Props and React Bootstrap Integration				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT** ✓				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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Receiving Date	22/4/24	Name of Faculty Mentor	Dr. Anshu Chaturvedi	Sign	

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Prashant Gour		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	16/02/24 - 29/02/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Working on frontend and Backend Development on Project				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT**				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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5

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Prashant Gour		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd		Date/Duration	01/03/24 - 15/03/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Worked on Project				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT** ✓				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor					

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Receiving Date	22/4/24	Name of Faculty Mentor	Dr. Anshu Chaturvedi	Sign	

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Prashant Gour		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	16/03/24 - 31/03/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Worked on Project				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT**				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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Receiving Date	22/4/24	Name of Faculty Mentor	Dr. Anshu Chaturvedi	Sign	

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Prashant Gour		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	01/04/24-15/04/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Worked on Project				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT**				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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Receiving Date	22/4/24	Name of Faculty Mentor	Dr. Ashu Chaturvedi	Sign	