UNITED INTERNATIONAL UNIVERSITY

REPORT

On Database Management System Lab Project

Project Title: Trade2z

Team Name: Triobot

Section: A

Submitted To

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Cryptocurrency market has experienced phenomenal growth in recent years, attracting a diverse range of investors. However, navigating this dynamic and complex market remains challenging specially for new users. This project aims to bridge this gap by developing a comprehensive crypto trading platform that empowers users of all experience levels to make informed decisions and participate confidently.

Here, we're going to introduce with our project name "Trade2z". Trade2z is a comprehensive online platform designed to facilitate cryptocurrency trading for users worldwide. With a user-friendly interface and robust features, Trade2z aims to provide a seamless trading experience while also offering valuable resources and earning opportunities for both users and experts. In this report, we will delve into the design, implementation, and functionality of Trade2z, highlighting its key features and the underlying database management system.

Growth of the Cryptocurrency market

The global cryptocurrency market size was valued at USD 4.67 billion in 2022 and is expected to expand at a compound annual growth rate (CAGR) of 12.5% from 2023 to 2030. (https://www.grandviewresearch.com/static/research/us-cryptocurrency-market)

Challenges faced by Cryptocurrency traders

- Fragmented information sources.
- Lack of real-time price updates on a single platform.
- Absence of integrated trading features and expert analysis.
- Difficulty in communication and collaboration within the community.

As a result, a lot of new comers either they finding difficult to invest on it or not taking worthy decisions. So, the problems and market analysis showcasing the need for a solution like ours.

Target Audience

This platform will provide a centralized platform for cryptocurrency traders to access all necessary tools and information. Our target audience will be the cryptocurrency traders of all levels. Investors are looking for best decisions, and enthusiasts looking for community engagement. We believe our platform will empower them to navigate the cryptocurrency market with confidence and efficiency.

Aim and Objectives

Aim:

The primary aim of this project is to develop a comprehensive crypto trading platform that empowers users of all experience levels to navigate the cryptocurrency market effectively.

Objectives:

- To provide users with real-time cryptocurrency price data and expert analysis.
- To offer a user-friendly platform for buying, selling, and tracking cryptocurrency holdings.
- To equip users with educational resources (seminars, personal session, blogs) to enhance their understanding of crypto trading strategies.
- To foster a supportive community by allowing users to connect and share insights through an integrated messaging system.
- Provide users with insights into their investments, profits, and transaction history through a dedicated wallet section.
- Feature rankings are based on user performance, empowering users to track their progress and make informed decisions.

Feature List with Description

- **Trading (Buy & Sell):** This core feature will allow users to place market, limit, and stop-loss orders with a user-friendly interface. Real-time order books and trading charts will provide valuable insights for informed decision-making.

- **Wallet:** Our secure wallet will utilize industry-standard security protocols to safeguard user funds. Users will be able to easily deposit, withdraw, and manage their cryptocurrency holdings within the platform. Also. User can track their investments, profits, and transaction history through wallet.

- **Expert Opinion:** Insights from established crypto analysts and market experts will be readily available, offering valuable guidance and perspectives to traders of all levels.

- **Blogs:** Regularly updated blogs will cover technical analysis, fundamental analysis, and emerging trends in the cryptocurrency market. This will

empower users to develop their understanding and make informed investment decisions.

- **Messaging:** The platform's messaging system will foster a vibrant community where users can connect, share experiences, discuss strategies, and learn from each other. This interactive space will contribute to a more informed and connected user base allowing for both **one-to-one chat** with other users and **group chat** among them.

- **Seminars & Sessions:** Live and recorded seminars by industry experts will offer in-depth knowledge acquisition opportunities. These sessions will cover diverse topics like technical analysis, fundamental analysis, risk management, and advanced trading strategies. Additionally, users can book one-on-one sessions with experts for personalized guidance and support tailored to their specific needs and goals.

- **Country and Region-based Rankings:** Our ranking system highlights top-performing users based on various criteria, fostering competition between users and promoting a sense of community within local regions.

- **Earning Opportunities:** We offer earning opportunities for both users and experts. Users can earn profits from cryptocurrency trading on the platform. Experts can earn income by conducting educational seminars and publishing blogs, incentivizing valuable contributions to the platform.

- **Administrative controls**: Administrative controls ensure copyright compliance, security, and smooth platform operation.

Existing System Analysis

The current landscape of crypto trading platforms offers a variety of features, but there's room for improvement in terms of:

- **Data Aggregation and Analysis:** Many platforms lack real-time data or don't offer expert analysis alongside basic price information.
- **User Interface and Functionality:** Some platforms can be overly complex or lack tools for comprehensive portfolio tracking and management.
- **Educational Resources:** Limited learning resources within platforms can leave users struggling to make informed decisions.

- **Community Building:** While some platforms offer forums, a dedicated messaging system for direct interaction between users can be beneficial.

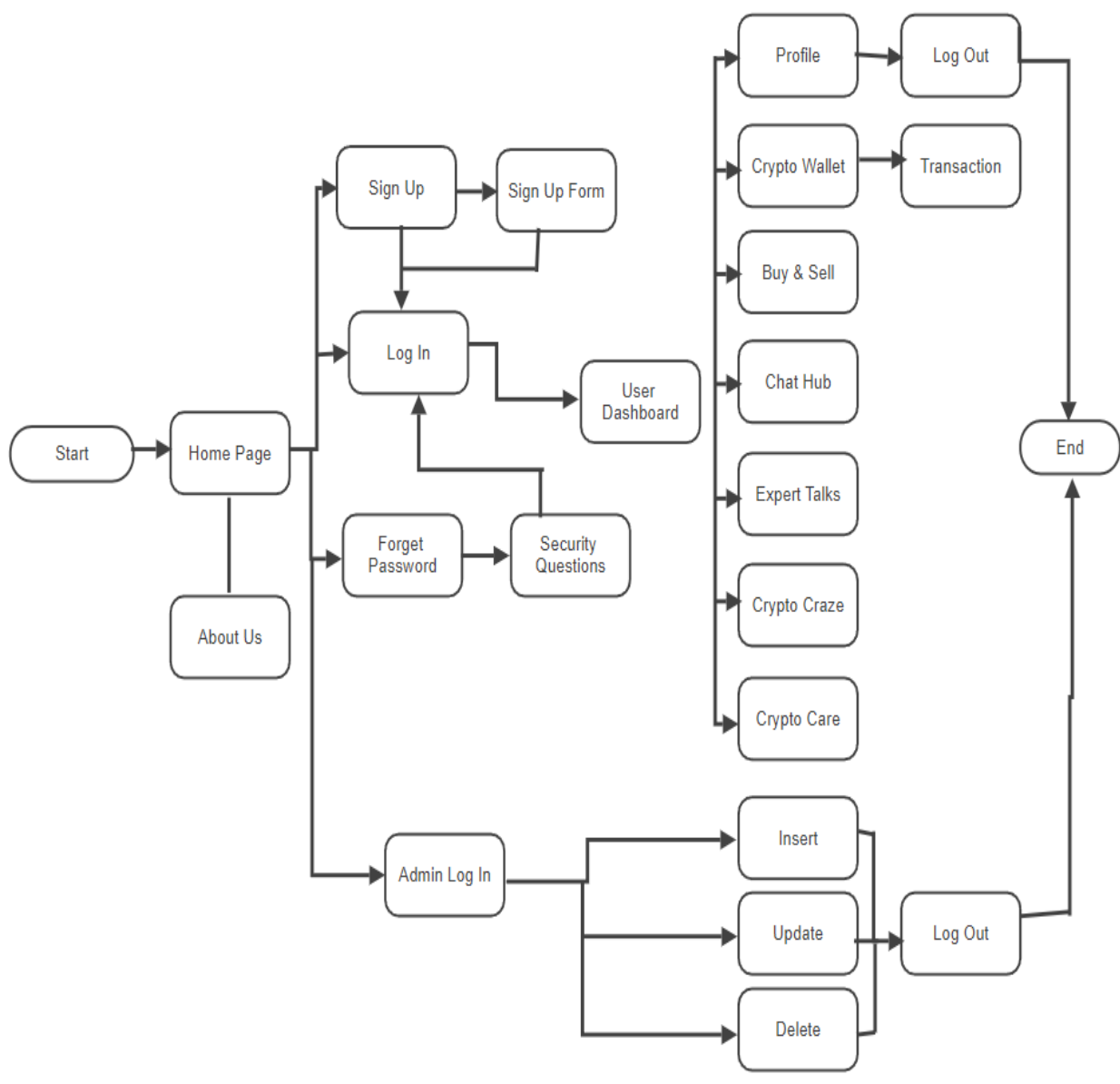Here's a comparison between our trading site and some famous trading sites:

Features	Binance	Bitfinex	Bittrexglobal	coinbase	Kraken	Trade2z
Expert Network	No	No	No	No	No	Yes
Expert Sessions	No	No	No	No	No	Yes
Expert Blogs	No	No	No	No	No	Yes
Guest Events	No	No	No	No	Limited	Yes
Rankings based on country & Region	No	No	No	No	No	Yes

Kraken - www.kraken.com, Bitfinex - www.bitfinex.com ,Bittrexglobal – www.bittrexglobal.com, Coinbase – www.pro.coinbase.com
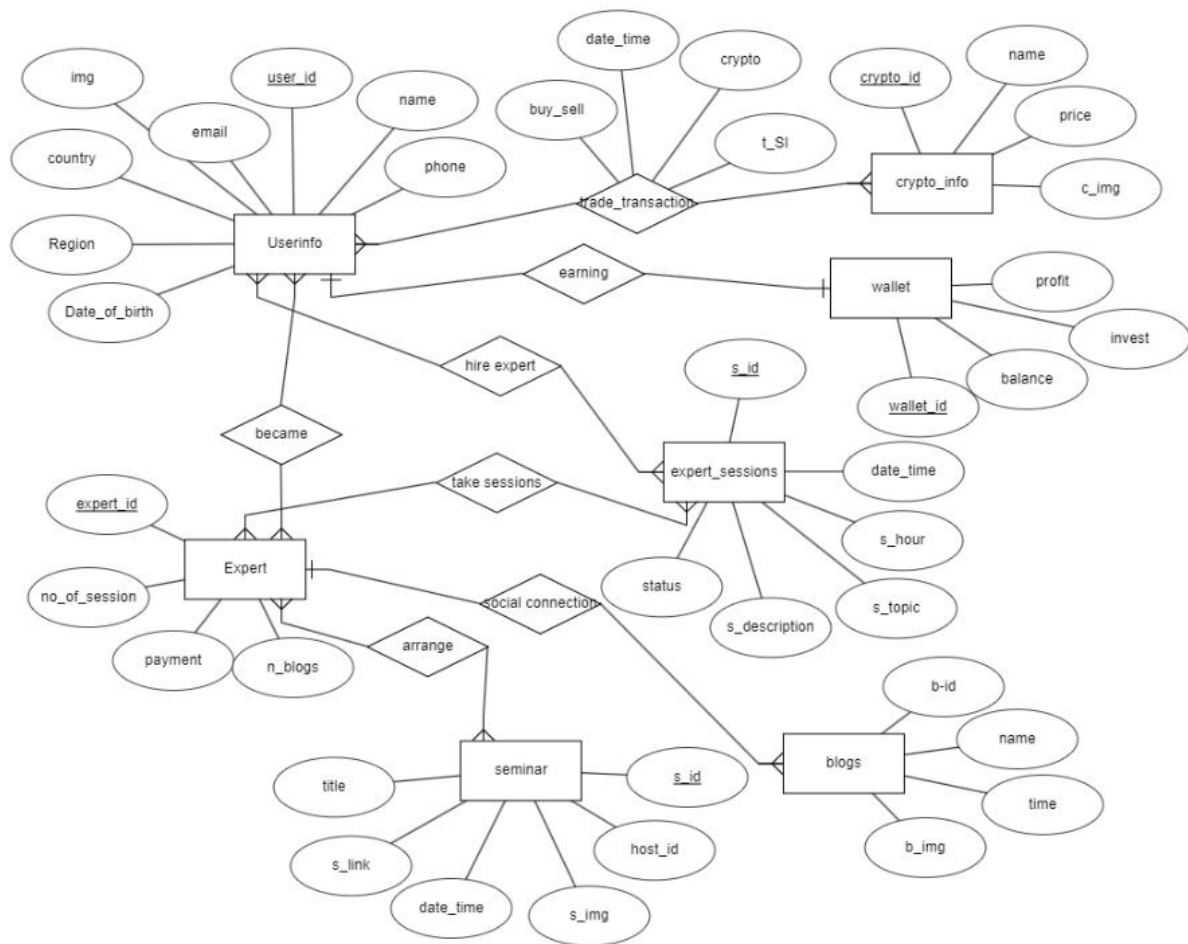
Implementation:

Trade2z is implemented using a relational database management system (RDBMS), specifically MySQL, chosen for its robustness and scalability. The website is developed using modern web technologies and frameworks to ensure responsiveness and cross-browser compatibility. The implementation process involved rigorous testing and optimization to ensure smooth performance and user experience.
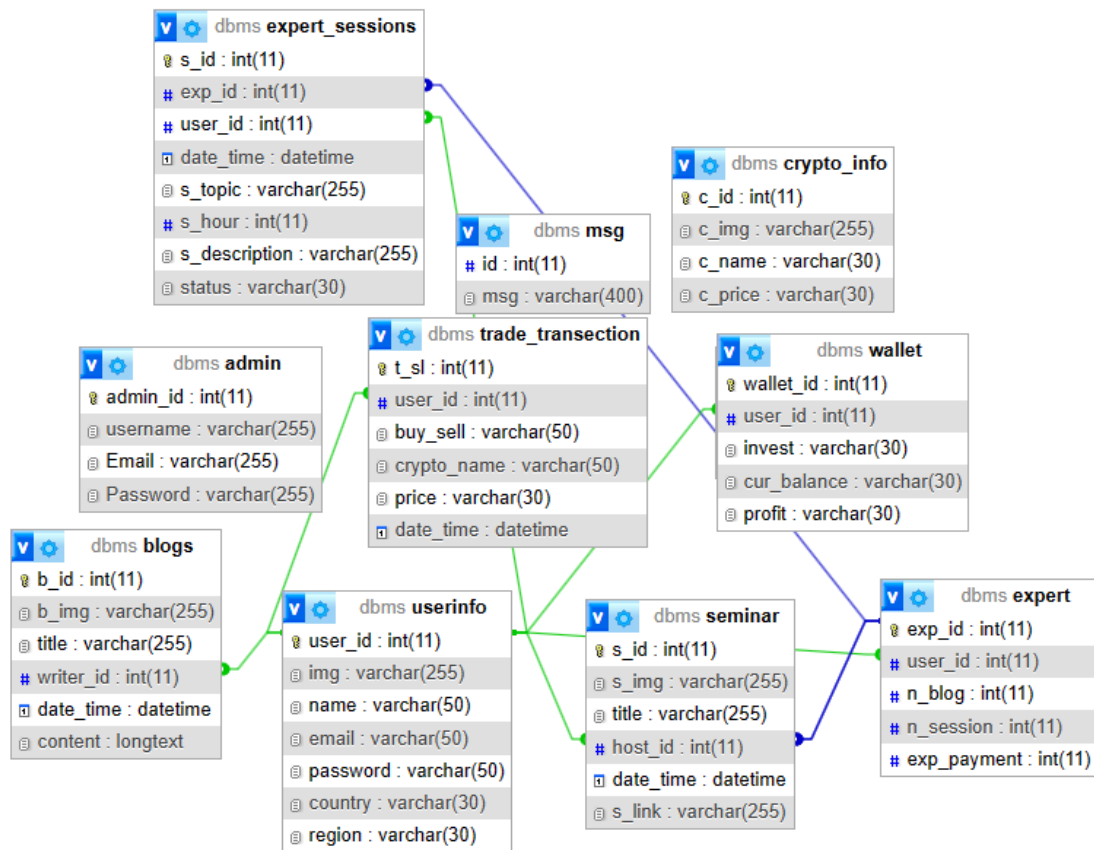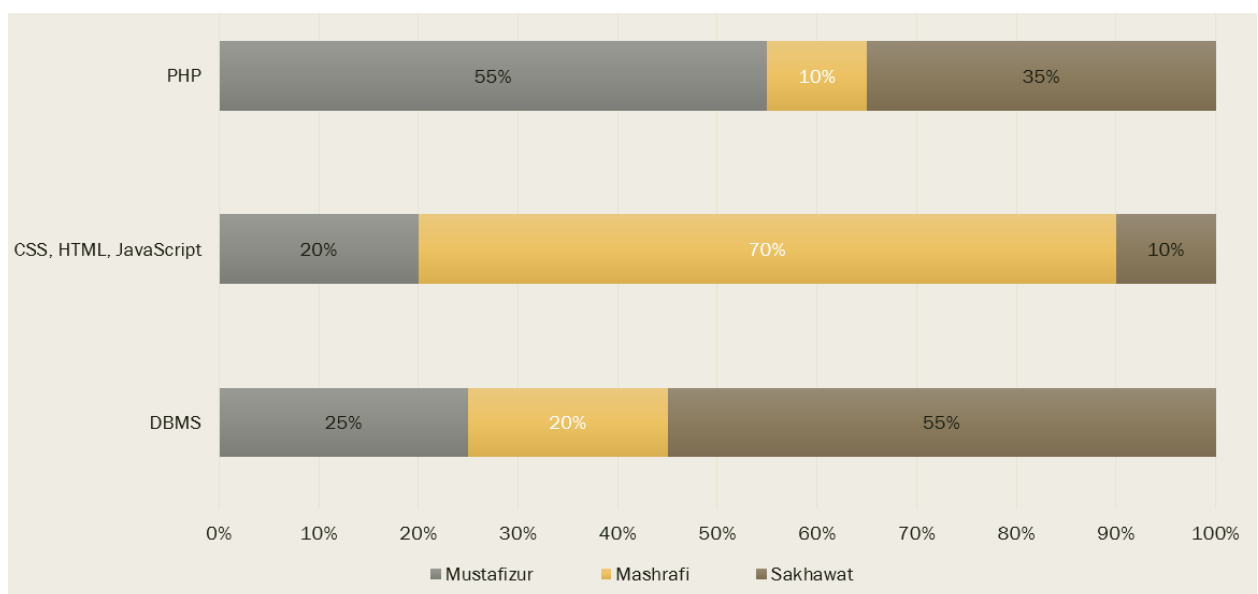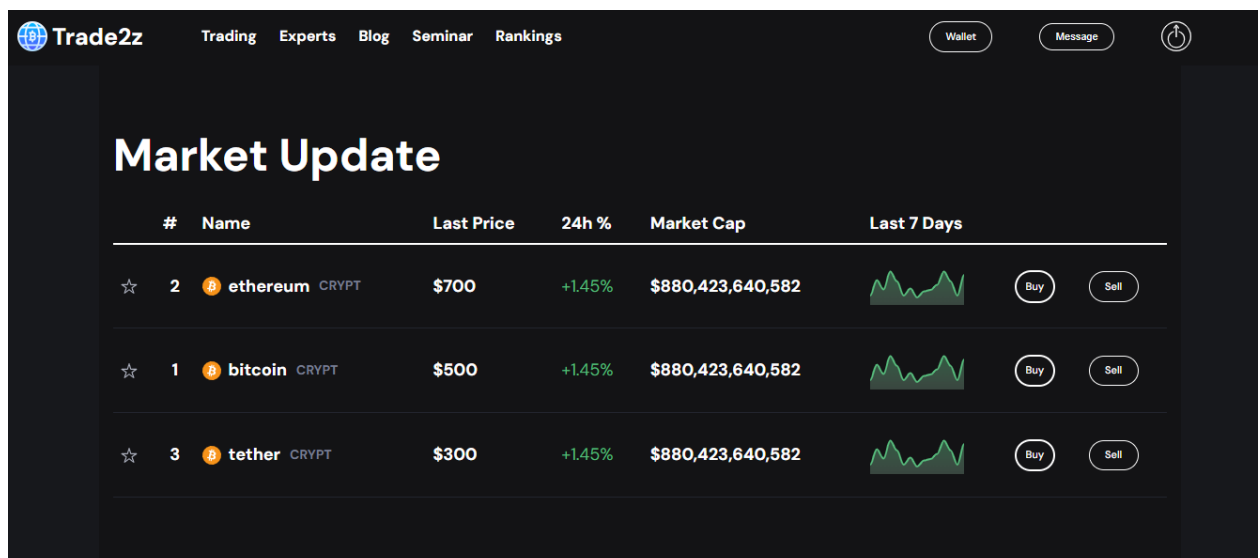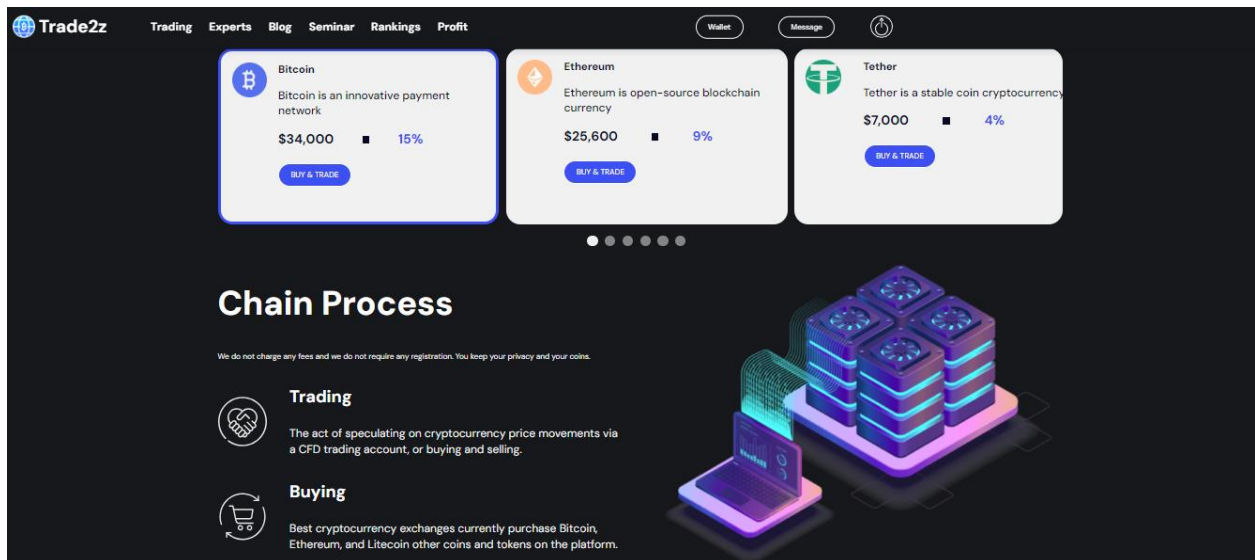
System Diagram

E-R Diagram

Schema

dbms expert_sessions
- s_id : int(11)
- exp_id : int(11)
- user_id : int(11)
- date_time : datetime
- s_topic : varchar(255)
- s_hour : int(11)
- s_description : varchar(255)
- status : varchar(30)

dbms crypto_info
- c_id : int(11)
- c_img : varchar(255)
- c_name : varchar(30)
- c_price : varchar(30)

dbms msg
- id : int(11)
- msg : varchar(400)

dbms admin
- admin_id : int(11)
- username : varchar(255)
- Email : varchar(255)
- Password : varchar(255)

dbms trade_transection
- t_sl : int(11)
- user_id : int(11)
- buy_sell : varchar(50)
- crypto_name : varchar(50)
- price : varchar(30)
- date_time : datetime

dbms wallet
- wallet_id : int(11)
- user_id : int(11)
- invest : varchar(30)
- cur_balance : varchar(30)
- profit : varchar(30)

dbms blogs
- b_id : int(11)
- b_img : varchar(255)
- title : varchar(255)
- writer_id : int(11)
- date_time : datetime
- content : longtext

dbms userinfo
- user_id : int(11)
- img : varchar(255)
- name : varchar(50)
- email : varchar(50)
- password : varchar(50)
- country : varchar(30)
- region : varchar(30)

dbms seminar
- s_id : int(11)
- s_img : varchar(255)
- title : varchar(255)
- host_id : int(11)
- date_time : datetime
- s_link : varchar(255)

dbms expert
- exp_id : int(11)
- user_id : int(11)
- n_blog : int(11)
- n_session : int(11)
- exp_payment : int(11)

Task Distribution

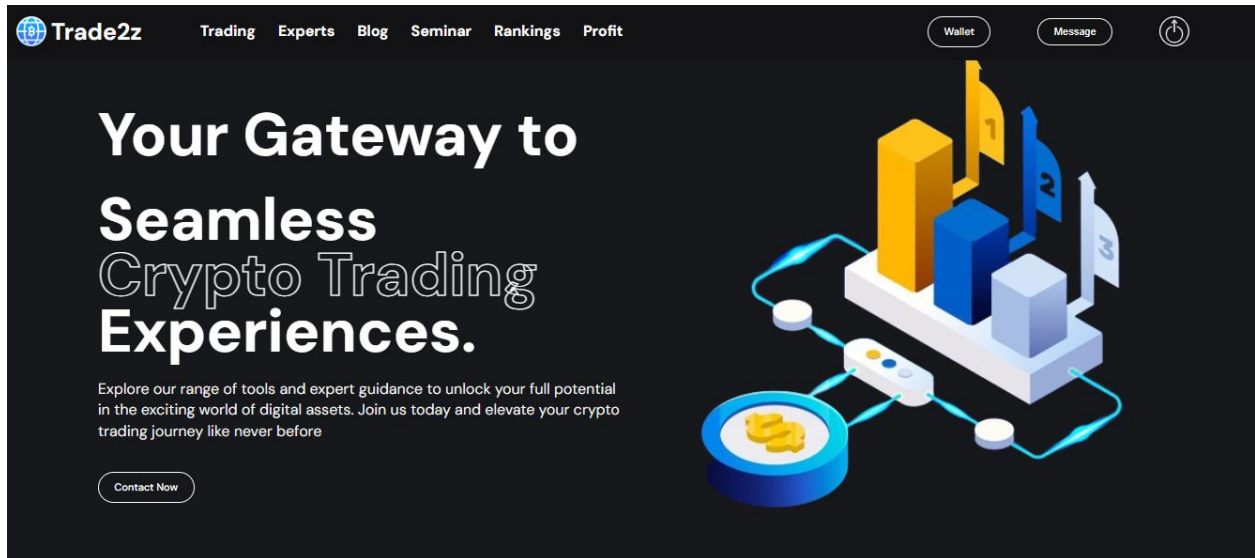| Task	Mustafizur	Mashrafi	Sakhawat
PHP	55%	10%	35%
CSS, HTML, JavaScript	20%	70%	10%
DBMS	25%	20%	55%

Project Screenshots:

Trade2z

Trading Experts Blog Seminar Rankings Profit

Wallet Message

Profit Table

Regional | Country

#	Country Name	Totat Profit	Total User	Total Expert	Total Blogs
☆ 1	Australia	5000	1	0	
☆ 2	Bangladesh	17000	3	0	
☆ 3	China	9600	2	0	
☆ 4	France	9900	2	1	0

Trade2z

Trading Experts Blog Seminar Rankings

Wallet Message

Ranking Update

Overall | Regional | Country

#	Name	Region	Country	Last 7 days Profit	Chart	Conversation	Meeting
☆ 1	👤 Mosaddik Mashrafi	Europe	France	3900		Message	Session
☆ 2	👤 Lee	Asia	China	2900		Message	Session
☆ 3	👤 Emon	Europe	Italy	600		Message	Session
☆ 4	👤 Sakhawat	Europe	Germany	600		Message	Session

Group Chat

Welcome to User ID : 2

26
and you?

334
e3e

2
sds

1
as

2
axa

1
no

2

Dashboard (Panel 1)

Trade2z

Hello! Admin

- Home
- Users
- Currency
- Expert
- Blogs
- Workshop
- Finance
- Settings
- Logout

Search

Users	Currency	Experts	Blogs	Seminar
13	8	3	3	Instant Meeting

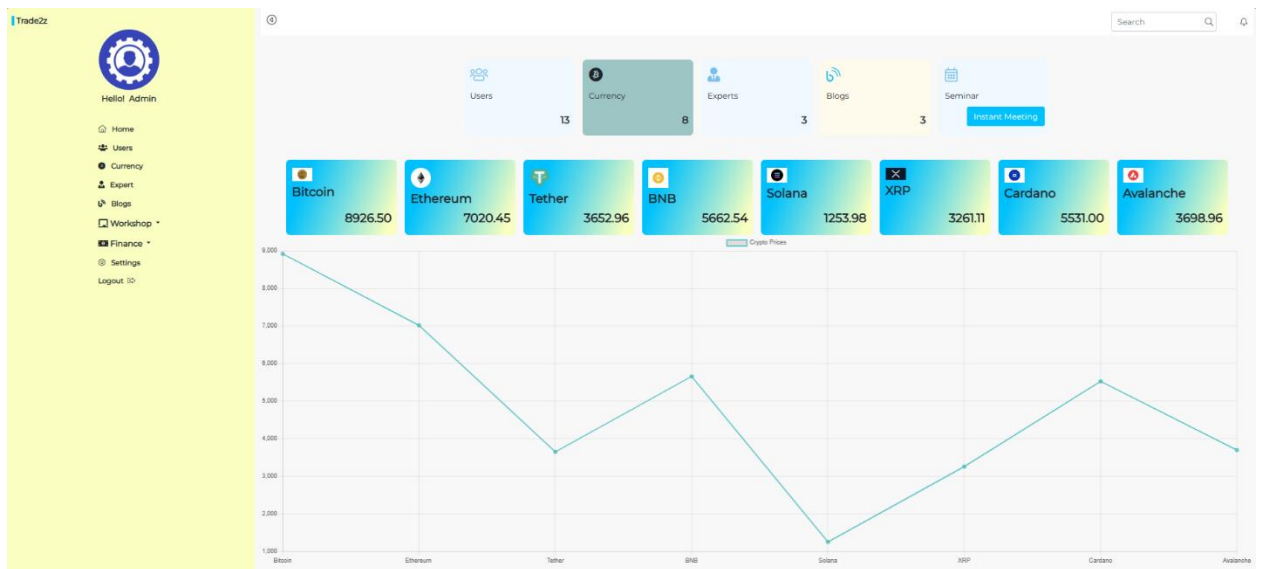| Bitcoin	Ethereum	Tether	BNB	Solana	XRP	Cardano	Avalanche
8926.50	7020.45	3652.96	5662.54	1253.98	3261.11	5531.00	3698.96

Crypto Prices

Users list (Panel 2)

Trade2z — Hello! Admin

- Home
- Users
- Currency
- Expert
- Blogs
- Workshop
- Finance
- Settings
- Logout

Add User

User ID	Name	Email	Country	Region
1	Emon	abc@d.com	Italy	Europe
2	Mosaddik Mashrafi	mosaddikmashrafi10@gmail.com	France	Europe
3	Md. Sakhawat Hossain	mhossain221240@bscse.uiu.ac.bd	Bangladesh	Asia
4	Lee	lee@gmail.com	China	Asia
5	Bcd	bcd@gmail.com	Bangladesh	Asia
6	Cde	cde@gmail.com	Bangladesh	Asia

Crypto list (Panel 3)

Trade2z — Hello! Admin

Add Currency

Currency ID	Image	Name	Value		
1		Bitcoin	8926.50	edit	delete
2		Ethereum	7020.45	edit	delete
3		Tether	3652.96	edit	delete
4		BNB	5662.54	edit	delete
5		Solana	1253.98	edit	delete

Expert list (Panel 4)

Trade2z — Hello! Admin

Add Expert

Expert ID	Expert Name	Email	Total Blogs	Personal Session	Seminar	Payment (Hour)		
1	Emon	abc@d.com	0	1	1	122	edit	delete
2	Mosaddik Mashrafi	mosaddikmashrafi10@gmail.com	1	0	1	50	edit	delete
3	Md. Sakhawat Hossain	mhossain221240@bscse.uiu.ac.bd	2	1	1	100	edit	delete
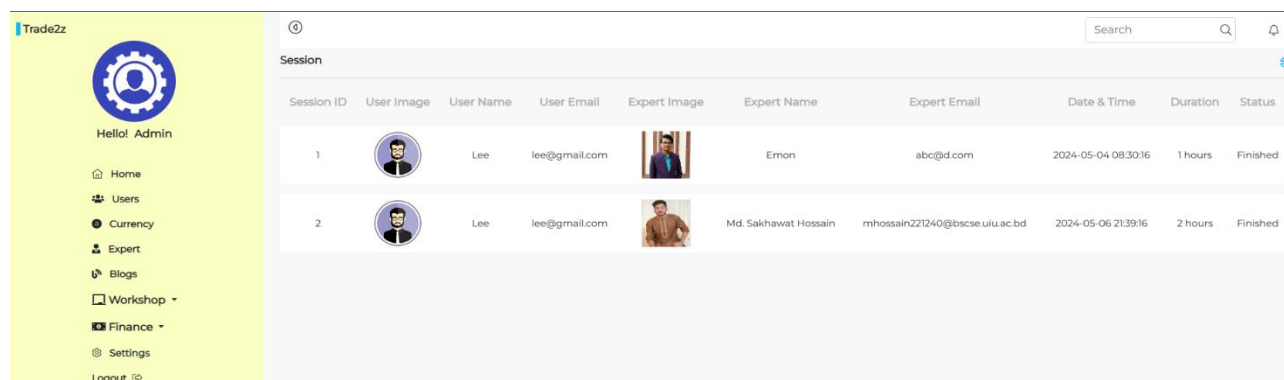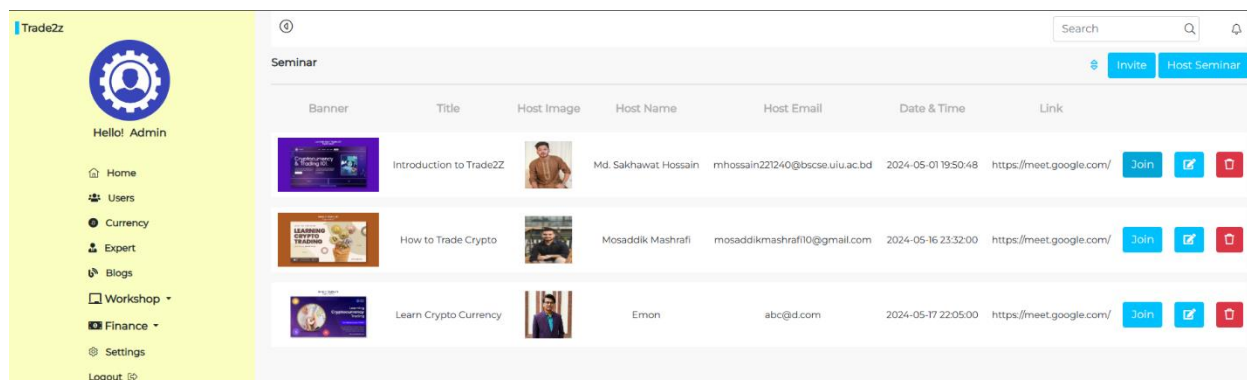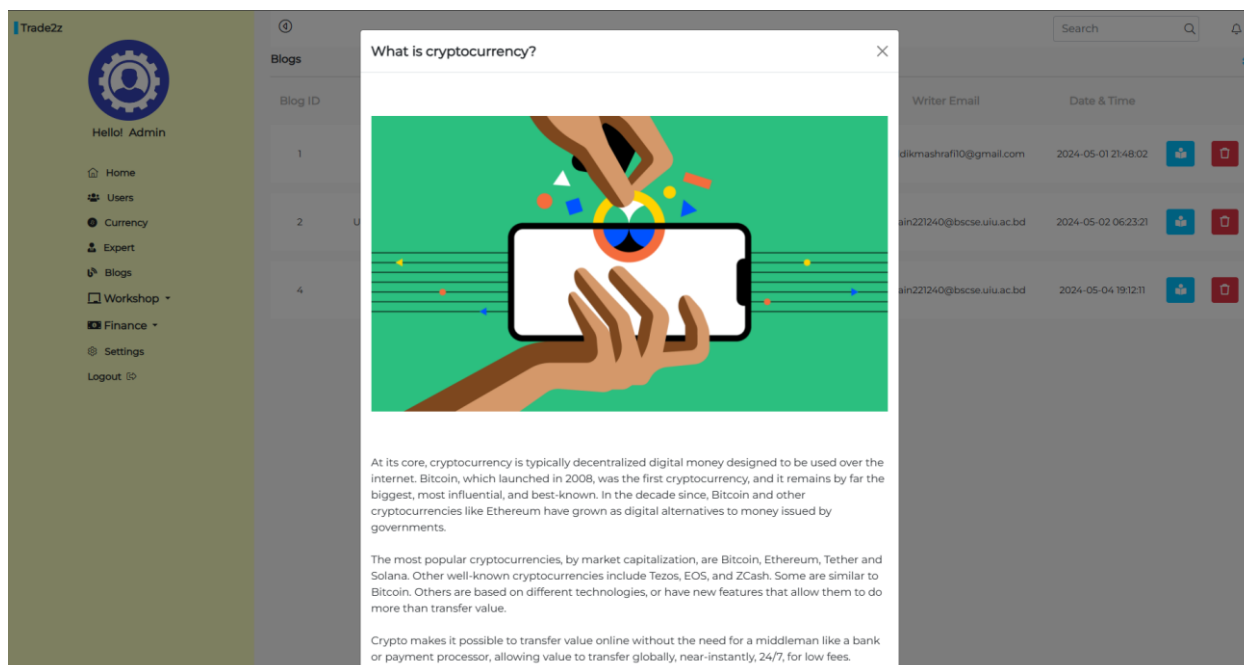
References

- Binance - www.binance.com

- Kraken - www.kraken.com

- Bitfinex - www.bitfinex.com

- Bittrexglobal – www.bittrexglobal.com

- Coinbase – www.pro.coinbase.com