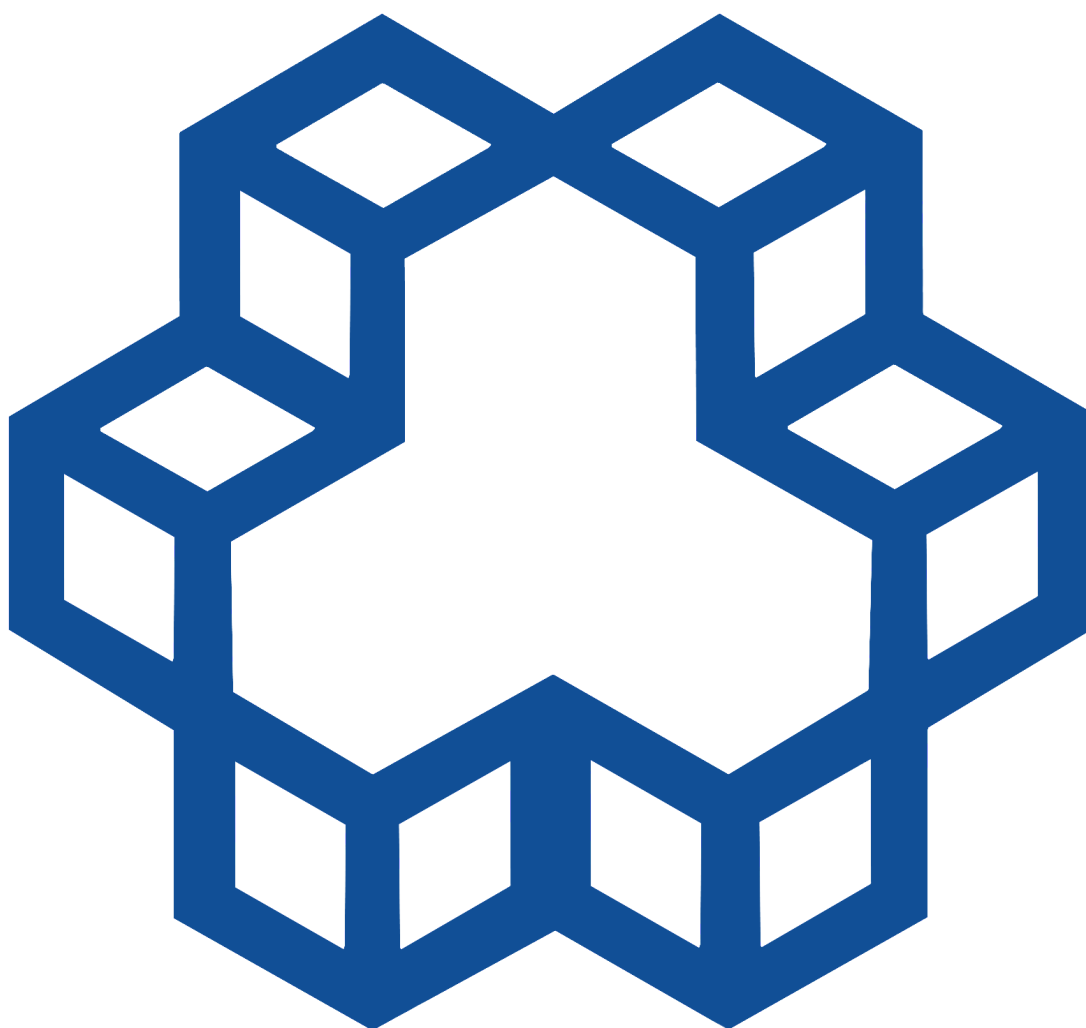


# **Crypto currency exchange market**

Shayan Maleki - Ali falahpoor

Master: Dr. Sedighian



# List contents

<b>Introduction.....</b>	<b>3</b>
<b>Requirements.....</b>	<b>4</b>
<b>References.....</b>	<b>13</b>

# Introduction

Cryptocurrency exchange markets have emerged as a popular way for individuals and institutions to buy, sell and trade cryptocurrencies. With the rise of cryptocurrencies such as Bitcoin, Ethereum and many others, the demand for trading these assets has skyrocketed.

## Meeting the Demands of Cryptocurrency

Cryptocurrency exchanges have become the backbone of the digital currency economy, providing a platform for users to trade different cryptocurrencies against one another or against fiat currencies such as the US dollar, Euro, and others. With the increase in adoption of cryptocurrencies, the demand for cryptocurrency exchange platforms has also risen.

In response to this, there has been a proliferation of web applications that cater to the needs of cryptocurrency traders. These web applications offer users an easy and convenient way to access and trade cryptocurrencies, as well as to view real-time market data, charts, and news related to the cryptocurrency market. As the world becomes more digital and decentralised, cryptocurrency exchanges are likely to become even more prevalent, making web applications for cryptocurrency exchange markets an increasingly important part of the financial landscape.

code	Title	Notes	Category	Priority
U01	User sign up	Sign-up process should be simple and easy to use, with clear instructions and minimal required information	User Auth	High
U02	Two-Factor Authentication	The website should implement secure user authentication, such as two-factor authentication or email verification, to prevent unauthorised access	User Auth	High
U03	User login	User login process should be simple and easy to use, with clear instructions and minimal required information.	User Auth	High
U04	Forgot authentication credentials	The website should provide an easy and secure way for users to retrieve their authentication credentials, such as a password reset feature	User Auth	High
U05	Multiple Authorization Levels	Implement multiple levels of user authorization based on the user's verification status, with higher levels requiring more rigorous identification and verification processes	User Auth	High
U06	Notifications	Allow users to receive push notifications for important events such as completed trades	User Activity	High

code	Title	Notes	Category	Priority
U07	Display User's Coin Holdings	Show users a breakdown of their cryptocurrency holdings by type and quantity, with the option to convert the value into their local currency based on the current exchange rate	User Activity	Medium
U08	Common Questions	The website should provide a comprehensive FAQ section that answers common questions about using the platform, trading cryptocurrencies, and managing user accounts	Support	High
U09	Admin and Support Page	Allow admins to manage user accounts, including adding and removing users, resetting passwords, and updating user information.	Support	High
U10	Support Tickets	Provide a support ticketing system for users to report issues or ask questions. Allow admins to manage and respond to support tickets	Support	High
U11	Content Layout	The website's content should be organised in a clean and intuitive layout that is easy to navigate, with clear headings and sections.	Design	Medium
U12	Responsive	Ensure that the web app is fully optimised for mobile devices and provides a seamless user experience regardless of screen size or device type	Design	High

code	Title	Notes	Category	Priority
U13	Language support	Web application should support different languages	Design	Low
U14	Tutorial Videos	The website should offer tutorial videos that provide step-by-step guidance on how to use the platform, execute trades, and analyse market data.	Content	High
U15	Blog	The website should feature a blog that provides users with news and updates about the cryptocurrency market, as well as educational content about trading strategies and market trends.	Content	Medium
C00	Coin Search	Allow users to easily search for specific coins by name, ticker symbol, or other relevant parameters	Coin	High
C01	Coin information display	The website should display information about each listed coin, including total volume in the last 24 hours, project information, highest and lowest prices in the last 24 hours,	Coin	High
C02	Coin price chart	The website should display a chart of the price history for each listed coin, allowing users to view trends and make informed trading decisions	Coin	High

code	Title	Notes	Category	Priority
C03	Add Coin to Favourites	Allow users to add a specific coin to their personal watchlist or favourites list for easy access	Coin	Medium
C04	Security Measures for Listed Coins	The website should only display information about coins that have been thoroughly vetted and deemed safe to trade.	Coin	High
C05	List of Favourite Coins	Allow users to add their favourite coins to a personal watchlist for easy access	Coin list	Medium
C06	Most Profitable Coins	Display a list of the coins with the highest percentage gains in last 24 hour	Coin list	High
C07	Most Lost Coins	Display a list of the coins with the lowest percentage losses in last 24 hour	Coin list	High

code	Title	Notes	Category	Priority
C08	Order management	The website should provide users with an intuitive and easy-to-use interface for managing their orders, including cancelling or modifying existing orders	Trading	High
C09	View User Transaction History	Allow users to view a detailed history of all their past transactions, including date, time, type, amount, fees, and status	Trading	High
C10	Show Prices in Local and Global Exchange	The website should display the current prices of different cryptocurrencies in both local and global (USD) exchange rates. This allows users to easily compare the prices of different cryptocurrencies and make informed decisions on buying or selling	Trading	High
C11	Price alerts	The website should allow users to set price alerts, notifying them when the price of a selected coin reaches a certain threshold	Trading	Medium
C12	Alert types	The website should provide different types of alerts, such as email alerts and notification alerts, to accommodate users' preferences.	Trading	Medium



code	Title	Notes	Category	Priority
C13	Order types	The website should support different types of orders, such as limit orders, market orders, and buy/sell orders	Trading	High
C14	Chart tools	The website should provide users with a variety of tools to analyse charts, including horizontal lines, trend lines, and technical indicators.	Chart	High
C15	Chart customization	The charting interface should be highly customizable, allowing users to adjust chart settings such as time intervals and chart types	Chart	Medium
C16	Chart accessibility	The charting interface should be accessible to users with disabilities, including support for screen readers and keyboard navigation	Chart	Low
P00	Deposit Cryptocurrency	Allow users to deposit various cryptocurrencies into their account using a unique deposit address generated by the exchange	Payment	High

code	Title	Notes	Category	Priority
P01	Withdraw Cryptocurrency	Allow users to withdraw various cryptocurrencies from their account to an external wallet address. Users may be required to complete an additional authentication process before the withdrawal is processed	Payment	High
P02	Withdrawal Limits	Set limits on the amount of cryptocurrency that users can withdraw based on their account level and verification status.	Payment	Medium
P03	Fee Calculators	The platform should provide fee calculators that allow users to easily calculate the fees associated with their transactions. These calculators should be user-friendly and provide accurate fee estimates based on the user's transaction amount and currency.	Fee	Medium
P04	Fee Discounts	The platform should offer fee discounts for high-volume traders or users who hold a certain amount of the platform's native token.  These discounts can help incentivize users to trade more frequently on the platform and hold the platform's native token	Fee	Medium
P05	Advertising Analytics	The website should provide detailed analytics on advertising campaigns, including click-through rates and conversion rates.	Marketing	Low

code	Title	Notes	Category	Priority
P06	Social Media Integration	The website should integrate with popular social media platforms like Twitter and Facebook, allowing users to share content and updates with their followers.	Marketing	Low
P07	Trade volume tracking	The website should track the total volume of trades executed on the platform, broken down by cryptocurrency and trading pair.	Analytics	Medium
P08	Analyse user profile for profit and loss	Develop a system that tracks each user's profit and loss from trades on the platform, broken down by coin and trading pair. This information should be accessible to the user through their account dashboard. Additionally, aggregate data should be available to the platform's administrators for insights into overall trading activity and user behaviour	Analytics	High
P09	Active users monitoring	The website should track the number of active users at any given time, and provide real-time updates on user activity and engagement	Analytics	Medium

# References

<https://www.kucoin.com/>

<https://nobitex.ir/>

<https://www.tradingview.com/>

<https://www.binance.com>