



TUNIS BUSINESS SCHOOL
UNIVERSITY OF TUNIS

Cryptfolio

A Crypto Portfolio Tracker REST
API

Rayen Latrech

January, 2024

Overview

1. Inspiration
2. What is Cryptfolio ?
3. Cryptfolio's Edge
4. Scalability
5. Challenges
6. Conclusion



Inspiration

Inspiration

The Genesis of Cryptfolio

Cryptocurrency has witnessed a big rise, giving birth to diverse platforms for trading, saving, and staking.

Inspired by the dynamic crypto landscape and the need for users to seamlessly manage assets across platforms, Cryptfolio emerged.

The vision encompasses providing users with a comprehensive tool to effortlessly track their crypto assets, transcending the complexities of various platforms.

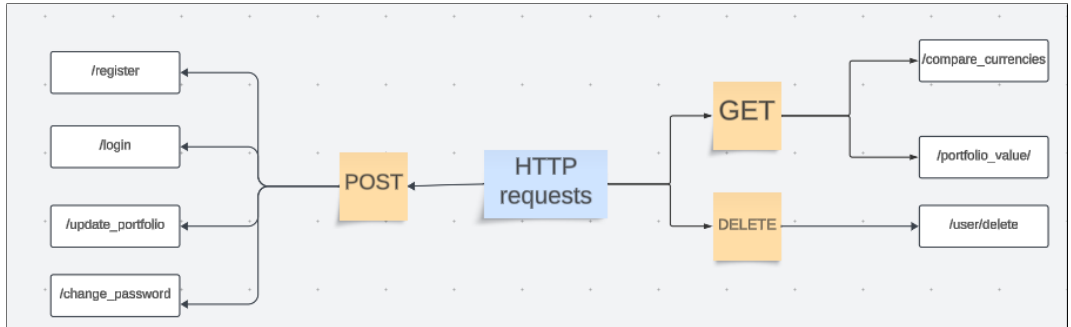
The background of the slide is composed of two large, overlapping geometric shapes. A teal-colored shape occupies the top-left corner, while a light gray shape occupies the bottom-left corner. The rest of the slide is white. The text is centered in the white area.

What is Cryptfolio ?

What is Cryptfolio ?

Definition, Functions and Features

Cryptfolio is a **crypto portfolio tracker REST API**, it enables its users to send the following requests :



What is Cryptfolio ?

Addressing Market Needs

- Fills a crucial gap in the market by offering a centralized solution for users dealing with multiple cryptocurrency platforms.
- Simplifies asset management, empowering users to make informed decisions in a dynamic and fast-paced crypto environment.


The background consists of two large, overlapping geometric shapes. A teal-colored shape is in the upper-left corner, and a light gray shape is in the lower-left corner. They meet at a diagonal line that runs from the top-left towards the bottom-right. The rest of the background is white.

Cryptfolio's Edge

Cryptfolio's Edge

What Sets Cryptfolio Apart

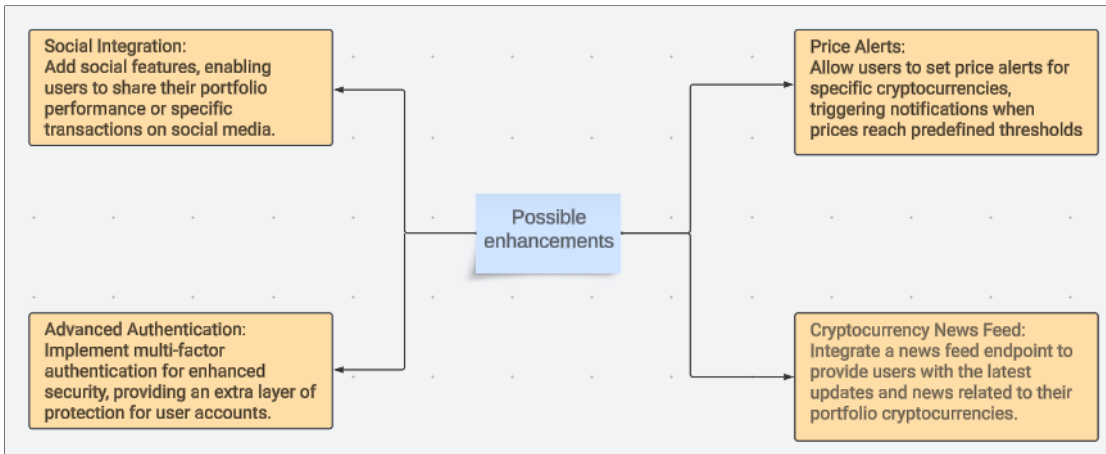
- Comprehensive Coin Support: Cryptfolio takes pride in supporting a vast array of cryptocurrencies. Thanks to CoinGecko's robust APIs, Cryptfolio ensures that almost every coin in the market is included. No matter how diverse your portfolio, Cryptfolio has you covered.
- Real-Time Data Updates: Cryptfolio provides timely updates to your portfolio, offering a snapshot of the latest market values which ensures users have access to the most recent and relevant information about their assets.



Scalability

Scalability

Possible Enhancements



The background of the slide is composed of two large, overlapping geometric shapes. A teal-colored shape occupies the top-left portion, while a light beige shape occupies the bottom-left portion. The remaining area on the right is white. The word "Challenges" is centered in the white area.

Challenges

Challenges

Problems that I faced and how I overcame them

- ▶ Database Management

solution: Utilized SQLite for its simplicity and efficiency.

- ▶ External API Integration

Solution: Incorporated the requests library to interact with CoinGecko API.

- ▶ Security

Solution: Integrated Werkzeug for secure password hashing and implemented JWT for user authentication.

The background is composed of two large, overlapping geometric shapes. A teal-colored shape occupies the top-left corner, while a light beige shape occupies the bottom-left corner. The rest of the background is white. The word "Conclusion" is centered in the white area.

Conclusion

Conclusion



This API project serves as a practical and innovative solution, addressing the need for secure cryptocurrency portfolio management, and real-time data comparison. Passionate about the use of crypto in finance and a desire to contribute to societal and economic growth, the project fits into the bigger aim of promoting digital transformation