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Wrist Coin Tracker

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ABSTRACT —

The project's goal is to routinely check on the health of the patients. When an elderly person sustains a major accident, this project assists us in keeping a regular eye on their well-being. This project recommends creating an Internet of Things (IoT) based system. WristCoin Tracker is a compact wearable device designed for seamless monitoring of physical activity and health metrics. Integrating advanced sensors, it offers real-time tracking of steps taken, heart rate, and sleep patterns. The device features a sleek wristband design for user comfort and convenience. With Bluetooth connectivity, it syncs effortlessly with smartphones, providing a user-friendly interface for data analysis and goal setting. WristCoin Tracker promotes an active lifestyle by delivering personalized insights and encouraging fitness milestones. The device prioritizes user privacy with robust data encryption and anonymized reporting. Its long-lasting battery ensures uninterrupted usage, while the companion app offers a social dimension through challenges and achievements. WristCoin Tracker is poised to revolutionize personal wellness, making health monitoring accessible and engaging for individuals of all ages

Keywords— Cryptocurrency, Bitcoin tracker, IOT, market trends

I. Introduction

The possibility for quick profits in the cryptocurrency market has made it a desirable target for many financial investors in recent years. In this market, the relationship between various cryptocurrencies is a topic under investigation. Comprehending the interplay of diverse assets helps facilitate portfolio optimisation. forecasting future fluctuations or downturns and keeping an eye on the beneficial risk spillover diversity of portfolios Bitcoin's daily price volatility from 2001 to 2021 was observed, and it was discovered that there are days when the volatility might reach 120%. 'WristCoin Tracker' is a ground-breaking hybrid of the dynamic world of cryptocurrencies and state-of-the-art wearable technology. Users may stay informed and involved in the cryptocurrency market like never before with the help of the "WristCoin Tracker."

II. PROBLEM STATEMENT

Today's cryptocurrency enthusiasts need convenient, secure, and real-time access to market data. 'WristCoin Tracker' addresses this by offering a wearable solution for effortless crypto tracking and portfolio management.

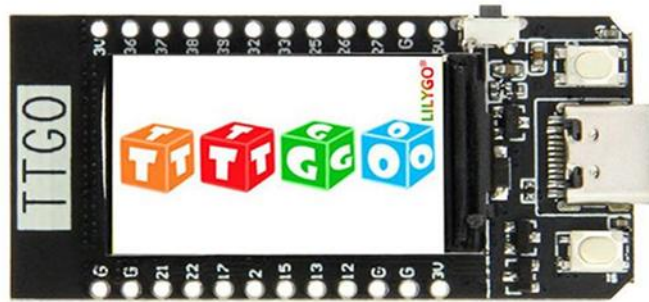
III. SYSTEM HARDWARE

TTGO T-DISPLAY

➤ *Technical Specification*

- . TTGO T-Display is an ESP32 development board equipped with 1.14 IPS LCD 65K rich colour display which has 135X240 resolution.

The on-board IPS display visualize any information from the controller or from the sensors.



❖ Lipo Battery

lipo battery is a type of ternary lithium battery, it is unique the weight, which is significantly lesser than most lithium-ion batteries.

It is also incredibly light and generally more powerful than its lithium-ion counterpart.



CONCLUSION

In conclusion, the "WristCoin Tracker" project represents a pioneering fusion of wearable technology and real-time crypto currency monitoring.

Its seamless integration of the ESP32 microcontroller and optimized real-time architecture empowers users with instantaneous updates on market fluctuations.

By providing convenient access to personalized crypto currency insights, this project enhances decision-making for traders and enthusiasts alike.

While its merits encompass real-time insights, portability, and user-friendliness, the project's future scope holds potential for advanced analytics, expanded compatibility, and innovative integrations.

As the crypto currency landscape continues to evolve, the "WristCoin Tracker" project stands as a testament to innovation, offering a tangible solution that bridges the gap between wearable devices and the dynamic world of digital currencies..

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