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Ecoin Sustainable Smartwatch

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Abstract – When it comes to travelling, not all tourists are aware of the importance of environmental preservation. Ecoin Sustainable Smartwatch lets travellers clean up while earning extra cash. This could motivate tourists to clean up dirty areas. The name Ecoin originates from Ecotourism and Bitcoin. The camera that comes with the smartwatch will capture the dirty environment. Once the user has cleaned the environment, retake a picture and the AI in the smartwatch judge the level of cleanliness. It scans and calculates how much Bitcoin a user can obtain by comparing a before-after photo. The cleaner the place, the more Bitcoin the user gets. Because Bitcoin can be changed into real money through third-party apps, it will incentivize travellers to clean up while travelling. This smartwatch is suitable to be invented by big companies such as Tesla, Neuralink, Bitpay, and others because they can provide bitcoins to the users. Lets protect the environment with Ecoin Sustainable Smartwatch.

Keywords – smartwatch, ecotourism, sustainable, Bitcoin, AI system

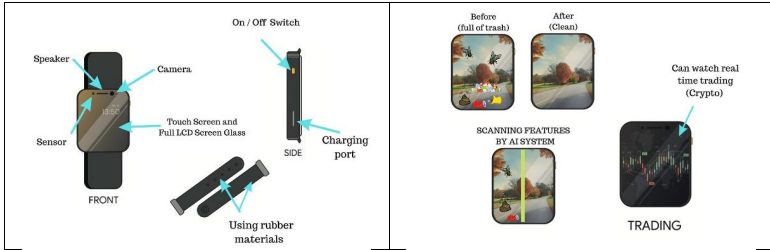
I. INTRODUCTION

Ecoin is a smartwatch that allows users to receive side income while travelling. This smartwatch comes with a camera, AI system, motion sensor feature, internet connection, and secured Crypto account to generate Bitcoin as a side income. This smartwatch is suitable for ecotourism activities because it will encourage people to clean the environment. According to Tracie McKinney [1], ecotourism business branch that is committed to conserving natural resources and preserving indigenous cultures. Ecoin smartwatch will encourage the user to conserve the environment's cleanliness when travelling while supporting their finances by obtaining Bitcoin by cleaning tourism destination process. The smartwatch can capture the differences between the before-after looks of any destination. Then, the AI system will determine how much Bitcoin the user will receive depending on the cleanliness of the environment they have cleaned. Bitcoin is the first digital currency in the world to use blockchain method, and it is created by networked computers participating in a transaction ledger [2]. The Bitcoin can be converted into real money using a third-party application. As a result, the goal of creating sustainable tourism is achievable in the future.

II. MATERIALS

A. Product Materials and Specifications

Table 1 Product Specifications



The smartwatch has high-quality materials. Since land is not the only contaminated place, the smartwatch's body is built of high-quality rubber to prevent water penetration, also known as waterproof. This Ecoin smartwatch is waterproof, allowing users to wear it while cleaning up trash in the sea, allowing them to utilize it for an extended period. Aside from that, this watch has a 10-megapixel camera with broad lenses to take pictures and improve the user's vision when comparing the before-after looks of the place and the users can focus on the area that is shown on the smartwatch screen. Besides that, it also offers a fashionable design watch that users can wear with any attire because it blends well with any style. It comes in various colours, including blue, nude, and black. Moreover, the users don't need to reach into their pockets or look through their bags to check on something because they have the gadget on their wrists. Users can access the Bitcoin app by simply looking at their wrists. Since the smartwatch is attached to the user's wrist, there is much less chance that it will get lost or dropped [3]. Additionally, their size makes them much simpler to transport and store. This watch has an internet connection, allowing users to use a Cryptocurrency application to track down the amount of Bitcoin that they have earned. A real-time cryptocurrency graph market that requires an internet connection is also available to the user. Finally, this watch employs an AI system that calculates the amount of Bitcoin generated based on comparing before-after images and the user's movement during the cleaning process.

III. METHODS

The Ecoin Sustainable Smartwatch can give side income by giving Bitcoin when the user manages to clean up the environment. The AI system in this smartwatch will calculate the amount of Bitcoin and generate it to the user's account. The Bitcoin come from this smartwatch's seller company. The idea of this Bitcoin generation through cleaning is adapted from the application of SweatCoin and CleanCoin. Sweatcoin turns smartphone step counts into the virtual currency. Users generate money rewards through physical activity using this app, with higher levels of activity producing a higher 'income' [4]. Meanwhile, the Clean Coin app, developed in Israel, allows the user to take a picture of the trash and tag the location, which is then shown on an interactive map [5]. According to the founder of the Clean Coin app, the new program allows users to earn 10 virtual coins for each bag of trash filled, which the user can then swap for goods and items from partner companies. Clean Coin is not a cryptocurrency that requires significant computing power for energy-intensive "mining" of coins [5]. To understand more about the Eco in Sustainable Smartwatch, assume a situation where rich companies such as MicroStrategy Inc. or Tesla is the seller of this smartwatch. The company sells this smartwatch at a high price to receive profits but also becomes the one that provides Bitcoin to their customers. There will be a give-and-take scenario between both parties who will receive benefits. Another example of this smartwatch usage is imagining that this smartwatch user travels to one destination. Rubbish can be seen everywhere in that area, and the user decided to clean up the area. Before that, the user uses the smartwatch camera to capture the surrounding area. During the cleaning session, the smartwatch's motion sensor will calculate the user's movement when cleaning and the before-after photos of the place using the AI system. The method used in applying the AI system is Supervised Learning. According to Nahavandi et al. [6], an input sample is mapped to an output label using supervised learning, typically used for classification. The more the user manages to clean a site, the more Bitcoin the user will receive. Since Bitcoin is digitalized money currency, it can be converted into real money using a third-party application. Therefore, this smartwatch can give the user side income and encourage them to clean more to get more Bitcoin as a reward. Tourists can implement sustainable tourism through Ecotourism activities concerned with the environment's cleanliness. Encouraging sustainable tourism will protect the environment and enhance the smartwatch's seller's image.

IV. RESULTS AND FINDINGS

As for results and findings, we distributed a Google Form survey to gain information on whether people are interested in our innovation idea. The survey was answered by people between the age 21-30, with 59.1% of female respondents. Out of 100%, only 90.9% of respondents are aware of cryptocurrencies. Only 68.2% of respondents thought it was worth investing in terms of Bitcoin with 81.8% of respondents want to make money through Bitcoin while cleaning the environment. Regarding their awareness of new tools and technologies, only 13.6% of respondents are very aware of it, and the remaining respondents are somewhat aware of the new tools and technologies. For our last question in the survey, we asked the respondents whether they are willing to buy our smartwatch despite it being expensive due to its specialty and specifications, and 90.9% of them answered that they are willing to buy it despite the high price, while the remaining 18.2% answered they are not willing to buy the smartwatch.

V. CONCLUSIONS

In conclusion, Ecoin is a smartwatch that allows users to receive side income while travelling. The smartwatch can capture the differences between the before-after looks of any destination using its camera. Then, the AI system will determine how much Bitcoin the user will receive depending on the cleanliness of the environment. This smartwatch also can lead users to live a greener lifestyle by promoting green living in the community and reducing the environmental pollution. Therefore, the Ecoin smartwatch has the potential to be an excellent addition to the market because it will provide numerous benefits to users in the future.

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