Assignment 2

Introduction to Information Technology

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# Team Profile

### Team Name: RS Team

### Team Profile:

According to the test’s result as a logician, it is no secret that this personality type isn't the most talkative or group-oriented, but this has less of an impact when us grouped with people they regard as intelligent, competent, and logical. Moreover, in some bad circumstances, sadness, anxiety, guilt, and shame are all negative emotions that could lead the team to an awkward situation. Therefore, my ideal teammate should have a strong passion for new concepts, effective communication, be punctual, work hard but also be friendly.

# Tool

[Uzifat/IT-WORLD (github.com)](https://github.com/Uzifat/IT-WORLD)

# Project Ideas

### Overview

The rapid development of Blockchain and Cryptocurrency is undeniable. Therefore, Cryptocurrency is a promising and well-developed market at the moment, but this attracts some bad actors as well. Technological innovation and new trading models move at a fast pace to keep people interested, but it is fraught with scams, VIP signal groups (pump and dump), rug pulls, and Ponzi schemes. To solve this problem and help developing trust in the Vietnamese community, I come up with the idea to create a crypto analysis website that helps people avoid fraud and identify suspicious projects among the current 6000 crypto projects.

### Motivation

In 2017, 80 percent of all ICOs were found to be scams. Confido is one of the most popular projects. On the other hand, Bitconnect is the most well-known Ponzi scheme in crypto history. Bitconnect had a market cap of around $2 billion and a token price of around $320 at the time of the crash. It dropped to $6 in less than 24 hours, with a market cap of $40 million. Thanks to the existence of Coinmarketcap and Coingecko, people now can observe the token's information like circulating supply, real-time price, and links to telegram group or website; much easier than the early time 2008-2017. They do not, however, detect rip-off tokens or provide reports on scam activity in specific projects. No worries, the RS team is here to collect community trust data, token information, and analyze smart contracts and real-time transactions. Finally, we'll grade the project on a 100-point scale, indicating whether it's safe to invest or not.

### Description

As previously stated, this is a crypto analysis website that assists people in avoiding fraud and identifying suspicious projects; in the future, we may consider launching a forum on it. However, here's a more in-depth look at the current features:

* Name, symbol, market capitalization, diluted market capitalization, total holders, total liquidity, and 24 hours buy/sell volume are all basic information that will be a feature on the left of each particular token window.
* A box displays the total score rated by team RS beneath the token basic information. Is it risky or not? Social media impact scores, as well as community ratings, are included in this section.
* There will be a Technical Analysis Chart imported from Tradingview. Users can perform the most sophisticated technical analysis thanks to a large number of tools included.
* To provide a free but reliable signal, the team will add some custom indicators based on our strategies. As a result, our customers no longer have to pay for phony VIP signal groups.
* A Price Alert Button will be located next to the Chart, allowing users to submit a specific price for a specific token and receive an alert via the website or email.
* A simple web-based chat application built with PHP and jQuery will be found in the website's right-hand corner. It is completely open to the public and transparent. People can post their chart and any crypto-related pictures (under 1Mb) here. But no files and links are allowed; in the case of malware, social engineering hacking, and phishing.
* An Idea Request button will be located below the chart. Users can use this to submit a request to the RS team for a long-term swing chart idea. Instead of the request form, a picture of the chart will appear if it has already been processed.
* Trade transactions will also be available in real time. It includes the date, time, minute, type (buy/sell), price in USD, token amount, and owner address.
* VPS hosting with high-speed performance

### Tools and Technologies

Firstly, we will use Figma [1] to design, manage the template for the website system. After that, we will decide whether to use an open framework like WordPress [2] or traditional code (VS code [3]) to deploy our website. VPS hosting provider will be Hawkhost as they have Asia servers. Secondly, the Technical Analysis Chart will be imported from Trading View open-source library [4] as it is free, powerful, and ideal for most customers. It's jam-packed with features for in-depth technical analysis. Also, using Coinmarket Cap API [5] to fetch token basic information. PineScript [6] will be used to deploy the custom indicator because it integrates well with the TradingView open library. Finally, the token rating system script will be written in JS, and the evaluation will be based on on-chain analytics, token system distribution, token top holders’ transaction history, and community signal.

[1] [Figma: the collaborative interface design tool.](https://www.figma.com/)

[2] [WordPress.com: Create a Free Website or Blog](https://wordpress.com/)

[3] [Visual Studio Code - Code Editing. Redefined](https://code.visualstudio.com/)

[4] [Free Charting Library by TradingView](https://www.tradingview.com/HTML5-stock-forex-bitcoin-charting-library/?feature=technical-analysis-charts)

[5] [CoinMarketCap API Documentation](https://coinmarketcap.com/api/documentation/v1/#tag/cryptocurrency)

[6] [Pine Script 4 User Manual — Pine Script User Manual 4 documentation (tradingview.com)](https://www.tradingview.com/pine-script-docs/en/v4/index.html)

### Skill Required

In my opinion, it necessitates the skills of an intermediate web developer. After that, the ability to program AI scripts to score tokens automatically. Expert at obtaining data from APIs and has extensive experience with trading strategies in order to create a custom indicator using Pinescript. On the other hand, it is not necessary to have much hardware knowledge, but it is necessary to know how to use tools and software such as vscode, git, GitHub, and vps terminal...

Also, We need to create price alert software, and a simple web-based chat application using HTML markup and CSS, a login form using PHP, jQuery to handle user input, and auto-scrolling, among other things.

### Outcome

If this project succeeds, many more people may be able to avoid being duped by a nascent market like cryptocurrency. The Vietnam crypto market is now crowded with VIP groups, and shilling for low-quality signals is still common. As someone who has worked in this industry for a long time, I have seen many lives destroyed by fraud and lack of transparency due to the lack of binding Vietnamese law. I'm hoping that this project will aid in the future development of the Vietnamese crypto community.

# Feedback

I showed the project information to two RMIT students, Hieu and Tung, in order to write this feedback. These two individuals work in the IT and design departments. They don't have a good understanding of the crypto market, and neither of them has any experience trading stocks and crypto. However, they keep up with the news, and they know that a lot of people have recently lost money due to ghost crypto projects (PI network) and the BO exchange. Because of the negative consequences of scams, the idea that cryptocurrency is a scam is still ingrained in the minds of Vietnamese people. After reading the RS team's project, they became more interested in cryptocurrency and were enthusiastic about the team's concept. In response to the comments, they suggested that our project focus more on the mobile app segment and write guides for newcomers to the market. I thanked them for their enthusiastic feedback on the project, and added new plans for future guide writing.

# IT Technologies

### Blockchain and cryptocurrencies

1. What does it do?
   1. Blockchain is considered the most breakthrough technology for digital transformation and building the future information technology platform in the wave of industrial revolution 4.0. Without the need for trust or proof of trust, blockchain technology allows for value transactions. For instance, while gold has been used as a global medium of exchange and value for at least 2,500 years, I believe it is costly to store and difficult to transport across borders in physical form. Cryptocurrencies, on the other hand, have none of these disadvantages. The supply is fixed and inelastic (Bitcoin, for example, there are only 21 million digital coins that will ever exist). It's as simple to send around the world as sending an email.
   2. Blockchain is built to withstand data changes. The information in the blockchain cannot be changed, and it can only be added if all nodes in the system agree. Even if a portion of the blockchain system fails, the information will be protected by other computers and nodes.
   3. Blockchain, in particular, has the ability to transmit data without the need for third-party confirmation. The blockchain system is made up of many independent nodes that can validate data.
   4. According to specialists, these features open up a potential application trend for a variety of areas, including finance and banking, retail, freight, manufacturing, and information technology.
   5. In the future, cryptocurrencies can be used to change traditional paper money, ushering in a new era of cryptocurrency. In order to do so, we must overcome the transitional phase of the present.
2. What is the likely impact?
   1. Those who invest in early-stage cryptocurrency will make a lot of money. Some crypto millionaires will start other side projects to make more money, or they will invest seriously in developing the perfect project to fit their future vision. Human resources will be in short supply and high demand as a result of actual projects. And then, some completely new career options will be present. For example in the current crypto market, some companies have a high demand for community managers who are fluent in multiple languages from all over the world, market researchers, blockchain developers, blockchain testers, project auditors, and many other positions.
3. How will this affect you?
   1. If the future of Crypto and Blockchain is as promising, my current investment will grow in value, and people's perceptions of it may change. My daily life will be a little different, for example, instead of swiping my visa card or paying in cash, I will use crypto cards (for countries like Canada that have adopted CRO crypto cards). Cryptocurrencies will be included in textbooks and learned in higher level in schools.

### Artificial intelligence and machine learning

1. What does it do?
   1. Machine learning technology has evolved enormously in the last 5 or 10 years, and it is now, in my opinion, the most important technology that mankind has invented. Virtual assistants, language translation apps, TikTok-recommended programs, and content displayed on Facebook and Twitter are all powered by machine learning. It can drive self-driving cars (tesla) and diagnose medical conditions, as well as process images and swap faces (deepfake).
   2. Artificial intelligence is a technology that allows machines, particularly computer systems, to mimic human thinking and learning processes. Learning (gathering information and rules for using it), reasoning (using rules to reach approximate or definite conclusions), and self-correction are examples of these processes. Expert systems, speech recognition, and computer vision are examples of AI applications (recognition of faces, objects, or writing).
   3. Machine learning and AI, in my opinion, will continue to contribute to the retail, banking, healthcare, and manufacturing sectors in the future.
2. What is the likely impact?
   1. With the growing popularity of Machine Learning, everyone in the business is exposed to Machine Learning and will need to learn some basic knowledge of it. Financial institutions, most commonly banks, use machine learning to identify insights in data for investment opportunities and prevent fraud (data analysis). It can be used to analyze purchase history from which to recommend items of interest and interest (Marketing, Approaching). The government can use machine learning technology to track down criminals, catch traffic violations more thoroughly through public cameras (Tracking).
   2. AI will be able to create works of art on its own in the future and will be able to replace many working classes, resulting in global unemployment. And it can also cause riots like in the movie ( Engineers at Facebook in early July had to disconnect two artificial intelligence robots named Bob and Alice after they created their own language to communicate with each other that scientists can't understand).
3. How will this affect you?
   1. At that point, AI will take care of everything, including managing all of the family's devices, closing and locking the door when no one is home, detecting a thief, and monitoring the health of the entire family. My life of my family will improve dramatically; much comfortable to live.

# IT Work

I have choose a Japanese friend who is working at a startup in Japan.

1. What kind of work is done by the IT professional?
   1. An IT professional's tasks may include configuring, setting up, and maintaining all voice, video, and data connections, checking for backups, server hardware, as well as fixing and troubleshooting issues, testing prototypes, servers, and managing the company's data by writing reports and interacting with SQL database.
2. What kinds of people does the IT professional interact with? Are they other IT professionals? Clients? Investors? The general public?
   1. Pro IT works with a wide range of individuals, including tough clients and even the problematic uncle who lives next door, much like the typical person.
3. Where do the IT professionals spend most of their time?
   1. Even in their leisure time, people use their iPads to learn about new technologies, discover what Apple is launching today, and so on.
4. What aspect of their position is most challenging?
   1. To prevent missing out on anything important to their job, they must adapt by continuing to study and without falling too far behind.