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**COSC-2083 Introduction to Information Technology**

**Semester 10/2021 - 1/2022**

**Lecturer: Nguyen Minh Long**



**The IT World**

**Assignment 2**

**A Report by group 6**

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Team Profile

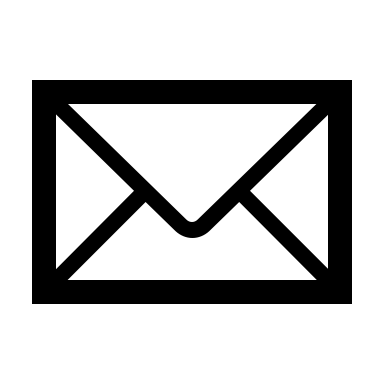
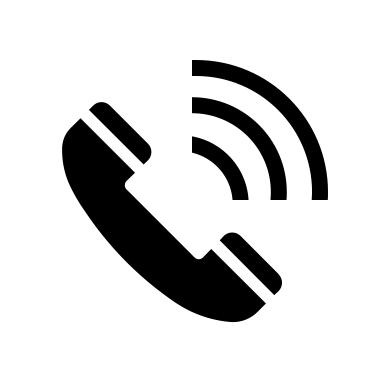
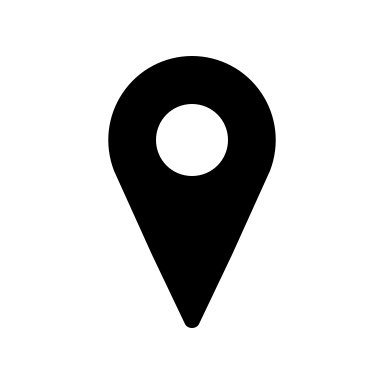
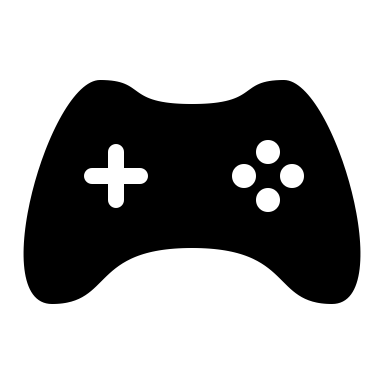
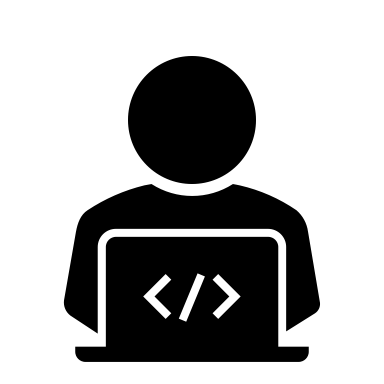
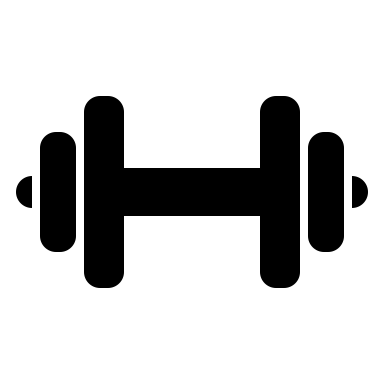


* 1. Team name

Skynet



*1.1 Personal information*



*Trinh Viet Quy*

“I was born and raised in Hanoi. Ever since I was a child, I have been remarked to be extremely curious. I often hide adults from taking apart electronics in the house to find out how they work inside and then putting them back together. When I was a little older, I was exposed to a computer and was immediately captivated by what it could do especially with video games where I could interact with non-player characters. One day, I was watching a robot cartoon called Wall-E, once again my passion for technology was aroused, at that time I wished when I grew up, I could create a robot with a conscious and perception as a human being. After 2 years of studying, I realized that was not really the major I wanted to pursue. I suddenly realized that what I want to create is not a robot, but the brain of that robot. In order to achieve that goal of mine, I decided to study information technology to learn how humans can teach computers and how computers interact with humans.”

* Student number: s3915202
* Role: Back-end developer

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“I was born and grown up in Ho Chi Minh City. During my time in Secondary Highschool, I had a chance to experience Pascal Programming. From there, I realize that information technology is a powerful tool that can solve many math problems with just some simple lines of code. Ever since I know about gaming and web surfing, I have always wondered how they are programmed. I wanted to program games, application as well as websites for myself so I decided to study IT. Personally, I have taken a Front-end course therefore I have some experience in Java Script and CSS to create basic websites base on my knowledge of designing and programming. However, my back-end development skill is still unrefined so I have a lot to learn. Additionally, I am taking a French course which I think might be useful for my future career. Beside from that, playing guitar for me is an excellent way to relief the stress after a long period of studying and cooking for the family is another passion of mine. Moreover, in order to achieve my goal of being a professional game/web developer, I have a habit of reading books about life and developing skills as a way of self-development.”

Name: Nguyen Thi Ha Giang

Student number: s3914108

Email: [s3914108@rmit.edu.vn](mailto:s3914108@rmit.edu.vn)

Role: Coordinator/Front-end developer

Hobby: Math, gaming, web programing, listening to music, cooking and reading books.



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Name: Tran Khanh Duc

Student number: s3907087

Email: [s3907087@rmit.edu.vn](mailto:s3907087@rmit.edu.vn)

Role: Reporter

Hobby: playing sports, gaming and reading research papers.

“Similar to our front-end developer, am also born and raised in Ho Chi Minh city, Vietnam. However, I come from a mixed culture family because my ancestors were from China. Being born in a strict Chinese family, I have developed a sense of responsibility and hark-working attitude toward my goals. But I love playing games, it just every boys passion. Back in the days, my cousin, who has been a specialist in IT for several years now, usually came to my house and showed me some hacking tricks for the game, he even helped me cracked the wifi passwords of local neighbors, which was very cool. I then thought to myself, IT was so astonishing and have so many potentials in the future, so I developed the passion ever since. I still have long way to go since I just finished learning about the basic concepts in IT, but I am eager to learn more. During school times, I am focused and determined but in my free time, I enjoy doing various sport activities as way to keep my head cool and my body strong. I also enjoy reading new research papers to update my knowledge on things happening around the world and what new technology that should be minded to pick up the trend.”



Text

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“I was born in a small village in Hai Duong, Vietnam. After graduation in high school, I went to Ho Chi Minh City for studying in the university. In IT field, I am really interested in programming which is about building games.. When i was in Highschool, I used to changes values in games data so that the money would increase, which werer really fun experiences for me so I developed an interest for IT since. I have had basic knowledge about Python and had tried creating my own games but they are still under development and I still have a long way to go. In my free time, I often do part-time jobs, social activities and enjoy my time at the Taekwondo club as well as playing the guitar to relief school stresses.. For example, I took part in an outside bonding with my club which is Taekwondo. One time, we even went climbing with the whole club. It was a memorable day for me because we try so hard and finally we managed to get to the top. The feeling was very proud and relief because I had finally achieve the goal of that day. One day, I will reach the peak of my dream and become a great game developer.”



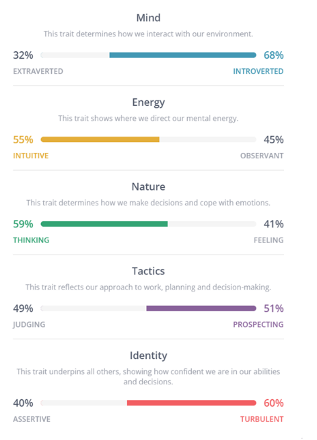
* Name: Nguyen Tuan Thang
* Student number: s3877039
* Email: [s3877039@rmit.edu.vn](mailto:s3877039@rmit.edu.vn)
* Role: Back-end developer
* Hobby: Taekwondo, playing guitar and coding.
  1. Ideal jobs



* + 1. Trinh Viet Quy



A

s the **Briggs-Myers test** suggested, Quy is an introvert, this trait of personality suggest that he would feel more comfortable with his inner thoughts and ideas, rather than what is happening around then externally. He works like any others sharing his trait, try finding the answer alone and do detail research before comes up with the final answer. However, when it comes to making decision, he is unlike most other introverts, he is straight forward and logical. One think should be minded is that he sometimes may have self doubts so it is best that he has people around to encourage him with his ideas.

**Briggs-Myers test result**



Chart

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**Big-five test result**



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Last but not least, as an **Auditory learner**, the best way for him to learn and attain new knowledge is by listening and hearing. This type of learner would normally store information by the way it sounds and would have easier time understanding voice instructions that the texts. As a leader of the team he it is best that we regularly have meeting so that tasks can be explained to him clearly.



**What type of learner?**

* + 1. Nguyen Thi Ha Giang

It can be said that she is an extrovert and always willing and dedicated to helping others. In addition, she admitted that she does not have a big ego. In fact, she always listens and absorb everyone's suggestions. That can be seen as her strong point when working in groups. Because when you work in a team, listening and absorbing feedback is an important thing for you to correct your mistakes and improve yourself. In addition, she is willing to help people when they need it and she feel happy to help them. However, her downside is being too selfless and empathetic towards people. Maybe due to her being emotional which overwhelm her reasoning, she often avoids words that affect people's emotions. Being too soft will make it easier for her to sympathize with the mistakes that people make, which will inadvertently make everyone in the team irresponsible and affect the overall outcome of the team. Therefore, she needs to control her emotions and work more rationally. If she works in a team, she would be the person who connects people and resolves conflicts in the most peaceful way. Moreover, the fact that she listens and absorbs new knowledge from everyone, would help the team get good results.

![Timeline

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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SXURXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjExOjI0IDIwOjA2OjIxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3NAAAkpIAAgAAAAM3NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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CBlbmQ9J3cnPz7/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYIDAoMDAsKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBDAQMEBAUEBQkFBQkUDQsNFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBT/wAARCALvAV8DASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD9Q6KKKACiiigAooooAKKKKACiiigAooooAKK5j4meJrrwb4D1rW7KOGW6soPNjSdSyE5A5AIPf1ryDSPil8ZNW8MweI7XwvoN9pUiGbbAziUoMgkKZs54PGCfQV0U6EqkXJNW8zhrYunRmqck232Vz6GpM1wvw1+LWmfEDwS/iKTZpMNuzRXi3MqhIHUA8yHA24ZTn3HvXRXnjLw/p8NnNda5p8EN4FNtLLdRqs4PQoSfmz7dazlTnCTi1qjaniKNSCqKWhs0VR1bWrDQrNrvUr23sLZThprqVY0z1xuJApmj+INL8QW7T6VqdpqkEbFXks50lXPXGVJ59qjldr2ZrzxTUW9e1zRorzvxj8adF8HeONF8OXEtuTebzd3U12kSWQC5XfkHluepXH5V2uma9put6f8AbtO1C0v7LkfaLWZZI8j73zAkcfWrlTnFKTWjM4V6c5OClrHdF+isGz8feGNQvhZWviHSrq9LbRbQ30TyE+m0MTWzNcRWsLTTyLDEilmkkO1VAx1JqXFxtzdfI0jUhPWMr/oS0VzK/E/wa4JXxZobYODjUYTz6ferch1SyuNPF9FdwS2JXeLlJFaPbjruBxinKMo7oUasJfDJP0LVFY2j+MtA8QXLW+l67pupXCDLRWd3HKw9yFJq3qGu6do5thfaha2TXMgigW4mSMzOeiruPJPoKTjJOzHGrCWqldIvUVizeNPD1vqw0uXXtNi1JmCize7jWYk9BsJz+lZXxUl1GLwTfNpOvWXhu8zGI9Q1CRY4UBcDaWYEKWHHQnJ6U1F3Satch1IqLcXe3Y6+isXw/fNb+EdOutT1W1vZFtI2uNSjZVglbaN0itwu0nkdsflTdL8ceHNeuDbaZr+l6jc7SfJtL2ORseuFOaOSSvbVIcasLRbdmzcorzjxB8ctD8P/ABI0/wAK3E9mscsMkt1qE14kUdoyhiqMCMbjtxgkY3DrXeaXqtlrVjFeafeQX9pJnZcW0qyRtg4OGBwcYxTlTnFJyWjJp16dWUoxabXQt0UUVmbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcD8ev+SP8AirsfsZx/30K8b+Hfxa8VaZ8MdK0LQvh9q2oyLbtDDqZR/sxLM2HBEeCBnpuHI617p8WtBvvE/wAONe0vTIPtN/dW+yGLeqbm3A4yxAHTuah+Dvh+/wDC3w10HStTt/st9bQlZot6vtbexxlSVPUdDXoU6kI4dqSvqtPkePiKNWpi4um+X3Xr81oeW6b8OL74b/s2+LrfVCg1O+hmu54Y2DCIlVUJuHBOBz7k4yBks+A/wZ0LxT4L0XxL4gSfWNSbH2XzJ5EW1ihcpGqqp7bc4Pr9a9f+Keh3niT4d6/pmnQfaL66tHihi3Km5j0GW4H41Q+CnhvUPCfwx0PSNXt/st/bJIssHmK+0mVmHzKSDwR09at4lyozlfVtfdqYLAwjiKdO16ai/vuv+CeT/wBkW/xk/aO13TvEIa70bQbci3sfNKoWygyQCM5Ysx9flByOKZ468NWPwT+LfgfUvCsbadbatcfY72yjkZo5FLopOCT2fOPVQetdR43+HPivw58R5fHfgSO1vru6h8m/0u7bYJemWViVH8Kn7wwV75Iqrpfw+8a/Eb4gaP4l8eWtnotlonz2mm2sodpH3BgxIZgBuAJOf4QMc5reFSPuycvdUbNedjkq0ZXqQcG6jleMvK6tr0sjnviV4M0Ob9pTwlZvpVs1pqUDT3kJTKzuTMSW9TlRzXrvi3TvBHgf4e3tjq8FtpfhmUFJIIgwDMxzhQnzbsgHI6Yz2rkfjL4B8U3fjrw34z8J2tvqF/pamB7K5kCbhknIJIHR2B5GOMZql8SvAfjf4ufDG0GpWFnpPiSyvjcx6ek4aN0CbQC24jfyTycVjzKpTpXnp1113OjlnRq4hxp3k1daeS6+vQ8w+JreBrn4etP4Z8Ba/pLQtG9rrjWDJb7dwGWlLnII6Zzzt6E11vxxvtR1T4M/D+8vXml0uf7LJq8kZJLgxKcsep5L/iRWp4y0P4q/FDwPeaPqGhad4fjjiVzBFcrLLeyKQVjUhtsa5GfmOeByeaj+Kgvo/hn4O+Hlt9qXxZeW1uv9nW+0pIsUYEiSybgAuQTkZB2/jXXGavCK3Uu99LHDKEr1Ju6Tj2tr2/Q5b4y6d4E1a68GWfgS10e91iW8VPs+mojLJFwdswXvnH3ucbs11Hx2tl1Dxl4B+Hdtt0zw9dOHnt7XESOofAQAYxgK34sD2qhLqvxF+FOnza6/w88HWFjCo+1SaVCsMvl7gDkrIT1I6A46kV2HjzwbefGDw74S8Z+GZU0/xBaJHe2sdwflcNh/KYgdQQeeh56ZzS5+WUHf3U3q3fVjhB1I1eSNptLS1rpdvXY5n46/CHw54D8DL4k8MWZ0TV9LuIXjnt53yylgpBy3JyQcjnj3qh+0Zrlz4g+Ffw91febe7vJobovGSpWRod24EdMEmtXxF4a+K3xitrbQfEOlaZ4Y0XzUmu7qGdZXmC9NoV2+oBwMgZPGK2vj58MdW8SeEvC2j+F9O+1x6ZcL+785E2RJHtB+cjPYcc9frUU5xg6casrtP8P+HLrUnUjVlh4OMXG1tryMj4tfAfwj4c+E2p3tnYlNXsYVmGoNK5kkcEbi+WwScnIxwT7VX+Id/cap+yPp9zdStNPJbWYaR8lmxKgyT3JxXrvxa0O+8TfDfX9K02D7Tf3Vtshh8xU3NkHGWwP1rz7xJ8OfEWofs22PhW307zddjht0ktPOjBBWUMw37tnAyetZU6qlGLnLXnT+R1VsOoSn7KOjptfPT8TG+JHg/XPF3wH8DDRbZ9RWztrW4u9OjfDXEYhXoBycEjgc/NwMij4Z6t8J/EHijTIV8M/8It4ssnHk2d4rxnzQOgOcMQem8Bieg4ru5ovHfhX4d+FLbw3pVjqGpWlpDBf2N7KBnbEoOxwwXIYEdSCDwD1HGzeB/HPxS+IPhrWvEnh/T/ClnosyzmSO5See42sGCbkJGMqOuMbmIyeDcZxlzRk7Ru9b6/d1OedOVP2c4RvO0VZq6+/ozB1vwPoM37VWn6RJpNqdMubJriW1KDY8hjkYsR3Oefwr6Q0XRbDw5psWnaZaR2NlDny4IRhVySTge5JP1NeO/FLwD4wtfippPjvwhY2+rTw232aayuJhH/Cy5yxXIKv2OQR0r1TwXea5feG7WbxHZQadq7bzNa2770T5ztAOTn5dveuavJ1KUGnsrfiz0MHBUsRVi42bd0+lrLqblFFFeee0FFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACUvrRRQAUn+GKWigA/zzXAfEj4SwePdR03V7TVbvQde08EW1/agMQp7MuRuHXoehPbNd/SVcZODuiKlONaPJPY8fvvgfr/ipVtvF3xB1DW9K3BnsbS0jslkwcjeVY5GfUfTmvWNO0+30mxt7G0iWG1t41hijXoiqAAB7YA/KrNFXKrOorSehjRw9Ki+aK18wo//AF0UVidIeg7UUUUAFFFFACUtFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFcZ8YviJ/wqf4c6x4q/s/+1P7PEbfZPO8nzN0qJ9/a2Mb89D0xx1rs68Z/bD/5Nz8Xf7lv2z/y8xUn09UXH4it4Z+M3xQ8Rf2VcD4MNb6Vf+VJ9u/4Sa2YJC+D5mzZk4U5xxUPxF/aosPhp8ZNO8EaroxTTrqOF5dc+1YW383cBuj2HKhgMkOMDJ9qg+Eq/Gw6L4Qa7l8B/wDCLi2tN4h+2fbPsuxemfl8zbj2zXJ+PPAdh8UP2oPGHhXU0Bg1DwXHtmxloZVnTZIvuGIP6d66JJKol01v91zmV+R230/M9s+NnxS/4U98O77xUNM/tj7LJCgtPP8AK3+ZIqA7wrYxn0Oa5/4y/HO++F//AAiEOmeFz4l1DxHMbe3tf7QFrtfClRuMbA7i+MnGMfl86eNfH2pav+y74z8B+JiV8YeELq1tLkOebi3FxGI5lz94dAT3yp/ir0L9qm8v9P1z4I3Wmaf/AGtqMOqiS3sPOWH7RIBCVj8xu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**Big-five test result**

Chart, bar chart

Description automatically generatedGraphical user interface, text, application

Description automatically generated

**Briggs-Myers test result**

**What type of learner?**

* + 1. Tran Khanh Duc

**What type of learner?**

**Briggs-Myers test result**

Chart, bar chart

Description automatically generatedText, letter

Description automatically generatedA picture containing logo

Description automatically generated

According to the Briggs-Myers test result, Duc is an ambivert who enjoy getting to know new people and new things but does not fond of parties. As an ENTP, he is flexible and creative. He is capable of thinking things logically and rationally in nearly any situation. This type of people can usually brainstorm their ideas and communicate them with others very smoothly. However, he can sometimes be impatient or rude or rather rash when it comes to debate and arguing about a new idea. Also, he is not good at making plans. Therefore, when it comes to working in a group projects, it is best that he has someone on his team to plan and implement the project. According to Duc’s “what type of learner?” result, he is a kinesthetic learner type. This means that he can learn best when it involves physical activities and he can fiddle around with tools around him. Other than that, his “big five” test result review that he loves to work with new ideas and will not have problems working with others.

**Big-five test result**

* + 1. Nguyen Tuan Thang

**Briggs-Myers test result**

According to the tests results, Thang is a high responsibility type of person, who pays a lot of attention to his works and capable of finishing tasks upon deadlines. Because of this aspect, Thang has the ability to study independently and can works on many tasks of a project on his own. However, this can be a drawback as it is not efficiency to work alone. That is why he admitted that working in a group enhance his work-flow and quality. His test result is quite interesting, the what type of learner questionnaire displayed that he is a mixed learner, which means that he learns best when visual, auditory and tactile qualities are combine. It can be hard for him to find a study environment where 3 of these qualities can be met at the same time. The study of IT would be the best fields for him where he can see the lectures and listening to his professor while practice those theory during tutorial sessions. However, he can sometimes loses track of time when it comes to doing projects so it is best that he has someone who is organized and methodical enough to give him some guidance.

Graphical user interface, application

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**What type of learner?**

* 1. Team Profile

Each of us comes from different background so we would have knowledge on how IT would affect the people differently in different region of the country. This is a good thing to noted when it comes to designing the UI/UX when we propose a project.

Also, the tests results give us brief psychological analytic of the members of the group so we can adjust accordingly. Quy has all the aspects that a leader would need. He is creative, but still process is mind logically and organized, he works responsibly and most importantly, he leads a self-discipline lifestyle which is a precious aspect for any leader. Giang has everything that need for a coordinator. She is thoughtful and cheerful so she can listen to the suggestions of members objectively. Moreover, she is careful with her words so that she will not hurt them unintentionally. Another thing about Giang is that she can also work on the front-end of the project which make her versatile. In a way, Giang can be the one who can stimulate Quy when he has self-doubts, we can see in the Briggs-Myers results of Quy and Giang, Quy is 60% turbulence while Giang is %53 assertive. Duc is flexible, creative, he is capable of thinking rationally and logically. Moreover, he can brainstorm the ideas and communicate them to others very smoothly, which make him suitable with the role of reporter. Thang is a responsible person, he can also research and work independently, which make him suitable for the role of back-end developer. Each of the members is a different type of learner. However, that is what diversify the team and make us more colorful. Finally, our big-five results show the most important aspects when working in groups is that we all have the ability to collab with others to do greater things.

Overall, the team combination will work out. Each of us have different strength and weaknesses. However, one’s strength will combine with others weakness to neutralize and create a stable team. More important is that we all share common hobbies so we can get to know each other later, sharing the same dreams of being developers so we are determined and will try our best to achieve that goal together.



1. A picture containing light, ctenophore

   Description automatically generatedA picture containing text, display, night sky

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Tools



1. More detail

IT Works

IT

I

n this section, we decided to interview a friend of ours who work at FPT telecom for several years now. In order to carry out the interview, we had to translate the question set to Vietnamese. The below interview scripts were translated from Vietnamese to English.

**Q**: **Please tell us about your IT work. What exactly do you do?**

**A**: “My job is to manage projects, program (with C/C++, golang), build and manage systems on cloud”.

**Q:** **Please tell us about the industry you work in.**

**A**: “Personally, the industry has many fields and has enormous potential. However, the nature of this industry is highly competitive and the employees has to be curious all the time and try his/her best to acquire new knowledge as well as coping with different working environment and colleagues”.

**Q**: **What other kinds of work do you have to do?**

**A**: “None, normally my main tasks would have taken all the time I had”.  
**Q**: **Who are all the different people you interact with in your work? Please tell us about   
them.**

**A**: “My work range normally involves with other direct managers who are from the age of 30 to 38 with skills relevant to Master Bachelor or higher level”.

**Q: Please tell us about your interactions with other IT professionals**.

**A**: “At work, I would work with other IT colleagues who are on the same team as well as on different teams. If I needed to contact other managers, I would use chat tools to reach to them. Our choice of chat tool is Microsoft Teams. During meetings, we would discuss on how different tasks of different teams may affect the workflow, efficiency as well as the complete time and how we would rely on each other. Sometimes, as a manager I have to step in and solve the conflicts between members from the same team or different teams”.

**A**: “For company partners, we would communicate with them through email”.

**Q: What about your interactions with clients or investors?**

**A**: “For customers, we have a sale team who have the responsibility to advise as well as seeking for potential customers”.

**A**: “For investors, only CEO level and above can communicate and interact with them”.

**A**: “It is beyond my range of work so I don’t have to interact with customers or investors”**.**

**Q: What aspects of your work do you spend most time on? Please tell us about these.**

**A**: “My main job is to manage projects and employee teams. Most of the time, I am the one who give tasks to employees, monitor the projects progress, solve system problems, support members in the team when they experience difficulties related to their work, interview the project proposers”.

**Q: Which aspects of your work do you find most challenging?**

**A**: “Personally, I find managing human resources is the most difficult task among all because each individual is capable of different professional fields, different emotions and personalities so as a manager, I have to come up with suitable ways to manage each employee accordingly”.

**Q: Finally, can you share an example of the work you do that best captures the essence of   
the IT industry?**

**A**:

“-Programing for internet devices (router, modem, etc.)

-Programming for MRI machines used for medical purpose at hospitals

-Build an advertising system on cloud that work globally.

-Among all the projects above, the best that captures the essence of the industry is the third project with the following aspects: it was built on cloud, it can be accessed from anywhere, it reached out to the most number of users, it can work globally and it used the latest technology as well as programing languages.”

1. More detail





IT Technologies



1. Block Chain & Cryptocurrency

A picture containing application

Description automatically generatedAs technology progressing, many problems are solved by newly advance and powerful tools, making people life convenient and can be actively monitor by electronic devices. However, everything comes with a price, more convenience from a digitalized life resulted in the rise of cybercrime and the risk of information theft. Therefore, people have come up with many security solutions. Most popular among these is the invention of Block Chain and the birth of crypto currency.

Block Chain is one of the most significant invention when it comes to the level of security. Because of the unique design and the clarity of a decentralized system, Block Chain has been applied in various field. However, most recognizable and significant among which is the crypto currency industry. Crypto currency or digitalized currency is a virtual coinage system that function very much like the standard currency, enable the users to make payment virtually without any service provide by a trusted third party thus no service fees is required when making payment. The concept of digitalized currency date back since 1980s and “rely heavily on the transmission of digital information, utilizing cryptographic methods to ensure legitimate, unique transactions” [2, P4]. Until 2009, when Bitcoin was launched, it took the whole concept to a new level, by decentralizing the system from a hierarchy system, individuals and businesses transact the coin electronically on a peer-to-peer network.

A picture containing diagram

Description automatically generatedInitially, Bitcoin was proposed in 2008 in a white paper, published under the name of Satoshi Nakamoto stating that “Commerce on the Internet has come to rely almost exclusively on financial institutions serving as trusted third parties to process electronic payments. While the system works well enough for most transactions, it still suffers from the inherent weakness of the trust-based model” [3]. According to Nakamoto, the existence of a trusted third party would increase the transaction costs and reduce the possibility of small to casual transaction. Therefore, Nakamoto sought to create a currency where there are no trusted third parties and replace trust with cryptographic proof. This system would have the added benefits of having low transaction fees, low latency (time to make transactions), and pseudo-anonymity [2].

How a Bitcoin or merely any subsequent crypto currency work is fairly simple, each coin is a “chain of digital signatures” where “each owner transfers the coin to the next by digitally signing a hash of the previous transaction and the public key of the next owner and adding these to the end of the coin” so that ownership can dynamically be programmed into the coin [3]. What’s more is that these lines of code are stored in a program called “wallet” which can be located on personal hard drives or online like Coinbase, Binance, etc. “Transactions are recorded by combining the digital signatures of each party and a timestamp, so that the transaction date is recorded. This new code represents the coin and its path through the network. This code is then broadcasted to all nodes (computers connected to and running the cryptocurrency network software) on the network. However, it is necessary that the majority of the nodes agree on transactions that have occurred, otherwise double-spending and denial-of-service (DoS) attacks can occur.” [2]. Like cash or any other properties, Bitcoin can be lost, stolen or destroyed. One British man is famous for throwing away a hard drive storing 7000 BTC. That would be around 392 million USD in today price. Another example is Mt. Gox, a Bitcoin exchange was hacked and lost nearly 350 million USD worth of Bitcoin in February 2014 and had to declared bankruptcy. This event raised a security concern among crypto currency investors.

Graphical user interface, icon

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There are 2 concepts that must be explained when it comes to crypto currencies that are Proof-of-Work (PoW) and Proof-of-Stake (PoS). PoW was first proposed by Cynthia Dwork and Moni Noar in 1993. PoW, as the creator explained: “is a piece of data which is costly to produce so as to satisfy certain requirements but is trivial to verify.” [2]. PoW adds an economic cost for performing a function. A transaction cannot be verified if certain amount of energy has not been expended yet. Alternative to PoW, rather than using the computational power of the computer as legitimate work to verify the transactions, a PoS network security depends on the ownership of the coin itself. Elaborately, in order to verify the transactions within a PoS system, the users must own some coin themselves. There are also systems that use both PoW and PoS to verify the transactions. However, this means more resources are used and under some circumstances, not financially ideal.

A picture containing diagram

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Compare to traditional a traditional centralized database system such as the bank or stock market, cryptocurrency market provides the user with a clarified environment where every transaction is approved and verify by everyone in the system with fast respond time. Also, digitalized coin can be stored digitally on personal computer making the owners feel safer when they can monitor and protect their money by themselves. With mechanism such as PoW and Pos, the users can feel safe when making transactions as these mechanisms required scarce resources thus enhancing the security level and maintain the clarity of the transactions. Moreover, with investing being a modern trend, people starting to invest more in cryptocurrency, raising the price of them to the moon result in the wealth of many miners/investors who follow the industry long enough, some even became millionaire due to the price of Bitcoin rocketed up to 60 thousand USD in 2020, according to Coinbase. However, like any digital field, investing in cryptocurrency comes with the risk of scamming and hacking as well as the loss of files. Additionally, like any other investment, investors have to face the risk of the coin price fail to rise, they may suffer from capital tie or even capital losses. Therefore, it is important that each investor have their own vision as well as investing strategy.

Graphical user interface

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Overall, cryptocurrency brings a new wave of financial exchange to the world. It is no doubt that it is attractive to investors. However, investing in cryptocurrency also comes with the risk of cybercrime, investors can be hacked and got all their money stole with just one mistake. Therefore, it is best that beginners do detailed researches before getting involved in the industry. Ultimately, with many applications and the benefits as well as the level of security mentioned above, cryptocurrency is stating their position in the economy world.

1. A picture containing chart

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**Project Ideas Project Ideas**

For some people, time is as value as gold. There is always too much work to do but too little time to spare. Understand this difficulty, our team aim to design a virtual assistant which can help the users with doing tasks as well as enhancing workflow. Despite the concept of virtual assistant is not new, in fact, it appeared as soon as the 1980s. However, what distinguish our product to others available today such as Cortana or Siri is that we aim to create a self-learning assistant, who can gather information, analyze them and alter the algorithms accordingly. What’s more is that most of the virtual assistant today do not support Vietnamese language, which make it hard for Vietnamese people who do not know English have hard time using them. Similar to others assistant, to maximize the convenience for the users, our assistant will be able to communicate with users by voice input and can answer them within the accessible data.

Our assistant will have the ability to access different data sources when connected to internet. Instead of the users memorizing the information, our algorithms make sure that the information is organized and linked in such an optimal way that would remind the users of the information rather than making them remember them. The assistant will execute the commands with the accuracy up to 90% to ensure work efficiency. The product can also do basic tasks such as planning appointment, identify the question, access database or the internet to provide an accurate answer, etc. There will also be an advanced feature which the assistant would have access to the device system to gather information about screen time on different applications to come up with unique experience for different users.

At the moment, the project is currently being developed on WindowOS with Python programing language. However, our standard is high and aim for a cross-platform system. Our next phase will be developing an environment for the assistant on MacOS and move to mobile platform later. The assistant will have the ability to jump from device to device when needed. In the future, when smart household applications are more popular and use operating system like Window or Android can also use our product.

**Tool and Technologies:**

* Application: pycharm, Pyinstaller
* Source/libraries: google voice, numpy, pandas, matplotlib, scikit-Learn, pyttsx3, overflow
* dialogue
* Tool: computer, microphone, speaker

Currently, our project can communicate with users, access to Wikipedia to find information, Access to Spotify to browse music. Still, the users need to insert a code, provided by Spotify that links to their account to use this feature. However, due to the project being under developing, users would need to know basic Python and English to use the assistant. It is not a difficult to create a virtual assistant. However, what make this project challenge is the implementation of machine learning to it. In order to make the algorithms understand the users’ behavior and habits, our team need to do research on the concepts of accurately scaling the assistant's response to create a machine learning tree that suitable for different users. Additionally, the accuracy of the product depends on the amount of data fed to it. Which means that the more the users use the assistant, the more efficient and synchronized it become result in a virtual assistant that actually understand and grow according to the users’ needs.

1. More detail

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