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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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The links to tools that we used in this project.

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More detail

More detail

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1. More detail



Team Profile



* 1. **Team name: SKYNET**

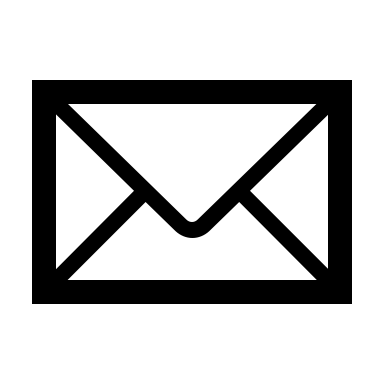
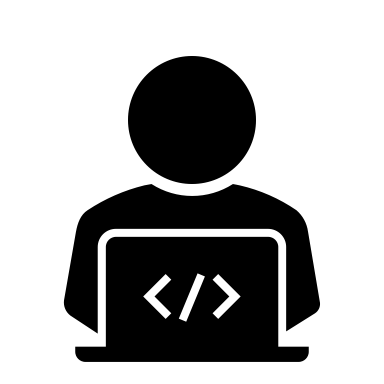
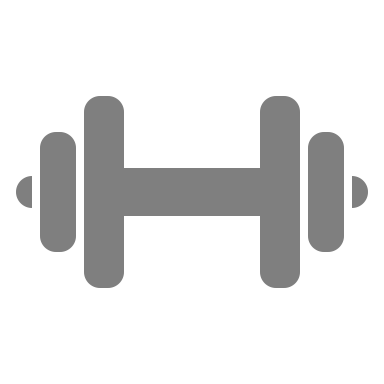


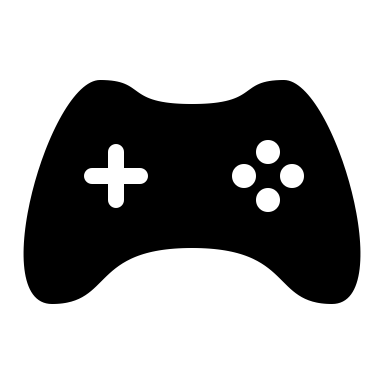
-Our team decided to go with the name Skynet. The reason behind this is because our project is to create an AI-machine learning virtual assistant. We believe that AI will be the technology that will dominate the industry in the near future. As developers, we wish to be the pioneers of this field. In pop culture, there is this popular movie where a tech company created an AI that is so smart and advance that it can calculate then travel time to terminate anything that is a threat to the future. That movie was Terminator and the name of the company is Skynet. We thought to ourselves, what better name can we choose for this group other than Skynet.

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*1.2 Personal information*





“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.”

*Trinh Viet Quy*

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

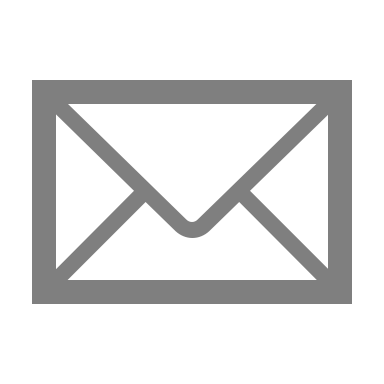
Contact

South Saigon Campus

0123456789

s3915202@rmit.edu.vn







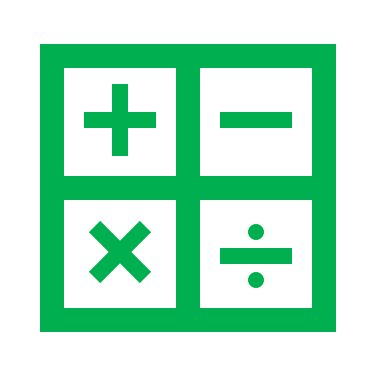
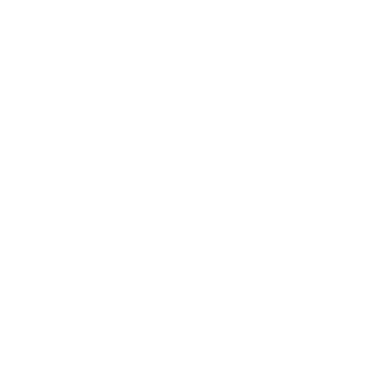
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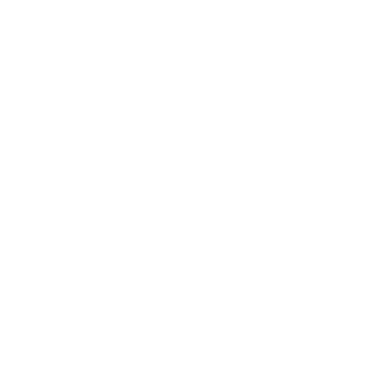
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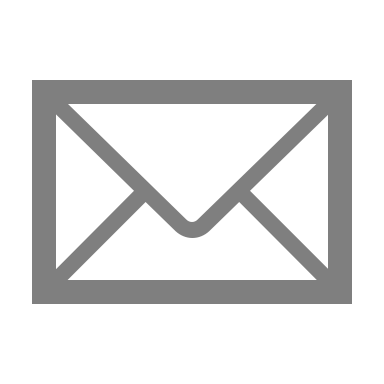


“I was born and grown up in Ho Chi Minh City. During my time in Secondary Highschool, I had a chance to experience Pascal Programming. From there, I realize that information technology is a powerful tool that can solve many math problems with just some simple lines of code. Ever since I know about gaming 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 not sharpened 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”.

* Student number: s3914108
* Role: Front-end developer

*Nguyen Thi Ha Giang*





*Tran Khanh Duc*

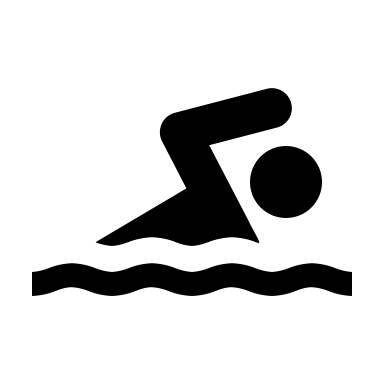
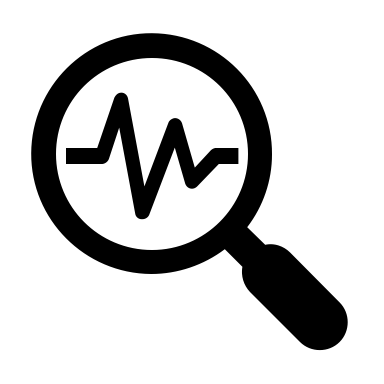
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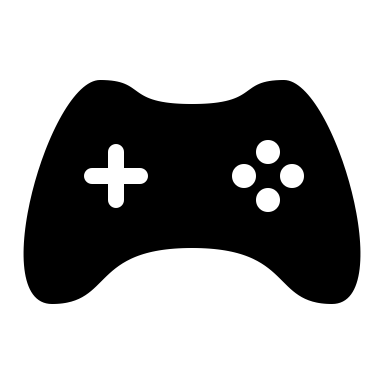
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0932039420

s3907087@rmit.edu.vn



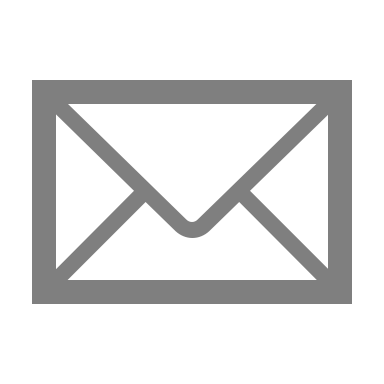




“Similar to our front-end developer, am also born and raised in Ho Chi Minh city, Vietnam. However, I come from a mixed culture family because my ancestors were from China. Being born in a strict Chinese family, I have developed a sense of responsibility and hard-working attitude toward my goals. But 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 in order to keep up the trend.”

* Student number: s3907087
* Role: Reporter/Editor





*Nguyen Tuan Thang*

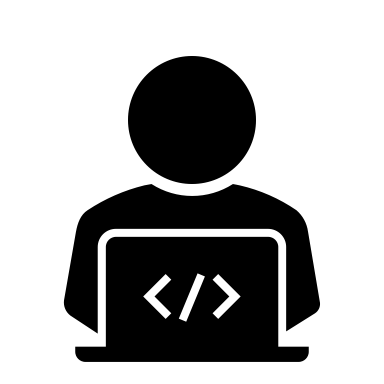
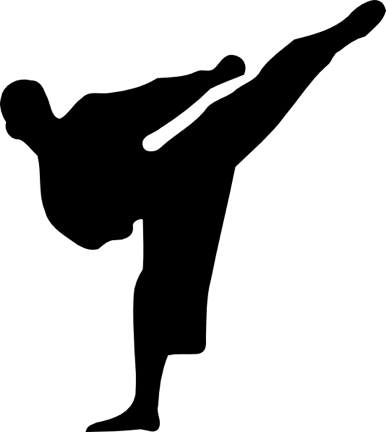
South Saigon Campus

Contact

0123456789

s3877039@rmit.edu.vn





* Student number: s3877039
* Role: UI/UX designer

“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 change values in games data so that the money would increase, which were 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 stress. 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. In the end, we managed to get to the top. The feeling was very proud and relief because I had finally achieved the goal of that day. One day, I will reach the peak of my dream and become a great game developer.”



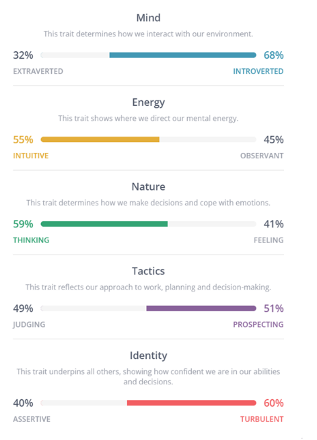
1.3 Team profile



* + 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**

A picture containing logo

Description automatically generatedText, letter

Description automatically generatedChart, bar chart

Description automatically generated1.3.4 Nguyen Tuan Thang

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**

**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 lose track of time when it comes to doing project so it is best that he has someone who is organized and methodical enough to give him some guidance.

Chart, bar chart

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Description automatically generated

**What type of learner?**

* 1. Ideal Jobs

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 co-operate 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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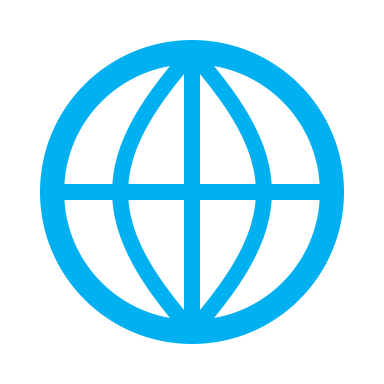
Tools



Our Github repository:

<https://github.com/VNeseTalkingBush/github_asm_2>

Our Webpage link:



<https://vnesetalkingbush.github.io/github_asm_2/>

development.”

M

1. ore detail

IT Works

IT

1. Video research
2. **What kind of work is done by the IT professional?**

**Oliver Reiter** – Palo Alto Networks – **Systems Engineer**:

-Day – to – day, meeting with businesses and local government and education organizations to find out where are the challenges that they are facing when it comes to securing and protecting their data and their network environments. Talking with them to figure out their needs and requirements and then designing a solution that will help them.

**Simon Ferrari** – Datacom Systems – **IT Manager**:

-My typical day involves getting involved in activities that any of my staff are involved in, from projects, working with project managers, business managers who look after those people as well as things like one on one meetings with staff for performance reviews, or video conferences, phone conversations with either my customers or staff.

**Joel Margliano** – Kankakee School – **Manage of Information Systems**:

-Problem-solving and being with people all day, every day I just like working with them, having a solution to their problem, figuring out what the problem is and then having that solution and knowing that it’s been resolved.

**Chris Sheehan** – Datacom Systems – **IT Support Technician**:

-My job can consist of me responding to technical queries raised by our customers. It can sometimes mean updating new software, application releases, new website releases that we have for our customers

**Eva Galperin – Director of Cyber security**

-She gives advice to people to understand using applications and websites for protecting individual information safely on the network. She points out possible situations to users, such as watching the camera of the device from another device.

**Amanda Russo – Security engineer**

**-**She answers user’s questions to help them have a certain knowledge about securing information and using data. She explains issues that users meet on the network and shares her experience working on security.

* IT professional tend to do all things related to technology, which can help people solving their problems about IT.

1. **What kinds of people does the IT professional interact with? Are there other IT professionals? Clients? Investors? The general public?**

**Oliver Reiter** – Palo Alto Networks – **Systems Engineer**:

-Businesses and local government and education organizations

**Simon** – Datacom Systems – **IT Manager**:

-Business managers, customers, staff

**Joel Margliano** – Kankakee School – **Manage of Information Systems**:

-General public

**Eva Galperin – Director of Cyber security**

-General public and clients

**Amanda Russo – Security engineer**

-General public, clients

* IT professional usually interact with people who have their own technology problems and who the IT professional can support by their skills and knowledge.

1. **Where do the IT professionals spend most of their time?**

**Joel Margliano** – Kankakee School – **Manage of Information Systems**:

-My day begins at usually 8 o’clock in the morning and I get to work and that starts the whole process. I’m usually walking out or around 5:30 – 6 o’clock driving home.

* Spend most time for work.

**Chris Sheehan** – Datacom Systems – **IT Support Technician**:

-Not all the time, I do not have to be at my desk. Sometimes I work from home. It depends on whether it is scheduled after hours work and that is really the only time we can do this sort of work if we are looking after a busy website.

* Spend most time for work

**Eva Galperin – Director of Cyber security**

-Most of her time is spent on looking for solutions to help users protect their information from cyber threats. A long password for the account is a strong security for themselves, and users should install and update software for preventing toxic programing.

* Spend most time for work.

**Amanda Russo – Security Engineer**

**-**She spends most of her time on reading comments and opinions from users to possibly help them network safely in an efficient way. Spend most time for work.

* Spend most time for work.
* In general, IT professionals usually spend most of their time at work. That's because jobs in the IT field often require employees to be ready to tackle the job anytime, anywhere.

1. **What aspect of their position is most challenging?**

**Oliver Reiter** – Palo Alto Networks – **Systems Engineer**:

You have to have that engineering background and that technical background to be able to articulate. The technical aspects or of product or a solution in a way that makes sense from a business perspective and make sure that the outcome of the technology fits with the business

**Chris Sheehan** – Datacom Systems – **IT Support Technician**:

Need to know a wide variety. As an IT Support Technician, you need to know a little bit about everything – about software development, about service support, about networking issues.

**Eva Galperin – Director of Cyber security**

-Cyber-attacks are the most serious challenges to the security job. Because it is possibly a cause for warfare like making it run the nuclear program.

**Amanda Russo – Security Engineer**

-What makes her the most challenging is the mentality because she needs to think correctly and creatively to solve problems.

* It can be seen that the biggest challenge for IT professionals in particular and technology workers in general, is to have a broad understanding of working knowledge and skills.

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1. Professional IT specialist interviews

In this section, we decided to interview friends of ours, the first one work as a **Senior Manager** for **FPT telecom** for several years now and the other work as an **ITC manager at VIB bank**. 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. Some question was refused to answer due to the work requirements of VIB bank so he could not provide us answers.

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

**A1**: “My job is to manage projects, program (with C/C++, golang), build and manage systems on cloud”.

**A2**: “I’m a member of board of management of IT Center (ITC). My job is managing the Its policies and procedures and ensure the quality is implemented thoroughly in the ITC”.

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

**A1**: “Personally, the industry has many fields and has enormous potential. However, the nature of this industry is highly competitive. Therefore, the employees have 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”.

**A2**: “In the banking industry, ITC plays a very important role, it is the lifeblood of the whole system, so it can be said that in this industry, the competition is very high, IT people in this industry are required to have very high professional skills. Curiosity and creativity in the industry are encouraged, however, the industry is mainly focused on accuracy and carefulness. Every operation of ITC has a direct impact on financial storage and circulation, a small mistake can have huge consequences. Every small change in the system must be carefully considered and can take up to a year to put into practice”.

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

**A1**: “None, normally my main tasks would have taken all the time I had”.

**A2**: “As one of the managers of the ITC department in the bank, the people I interact with every day will be the staff of the entire department to update the system information every day. Like I said, carefulness and accuracy here is very important, so updating information from people in the department daily is a mandatory part of the job. In addition, there are managers of other departments when needed.

Our work is in the background, so the interaction with investors or customers can be said to be almost completely absent or will be communicated indirectly through the service department”

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**Q**: **Who are all the different people you interact with in your work? Please tell us about   
them.**

**A1**: “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**.

**A1**: “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”.

**A1**: “For company partners, we would communicate with them through email”.

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

**A1**: “For customers, we have a sale team who are responsible to advise as well as seek for potential customers”.

**A1**: “For investors, only CEO level and above can communicate and interact with them”.

**A1**: “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.**

**A1**: “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”.

**A2**: “Tracking, reviewing the IT policies and procedures. Most of my day job is monitoring IT related policies and procedures in the bank. Usually, junior staff will be the one to monitor and report to me about the activities then I will be the one to give them a review. Normally my work will start in the evening, when the bank is closed and end of the working day, but when there are unexpected problems, I will have to be there to handle them immediately.”

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

**A1**: “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”.

**A2**: “The most challenging job for me is to ensure the accuracy of the activities of all members of ITC. Make sure they understand and follow It procedures closely to ensure system quality”.

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

**A1**:

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

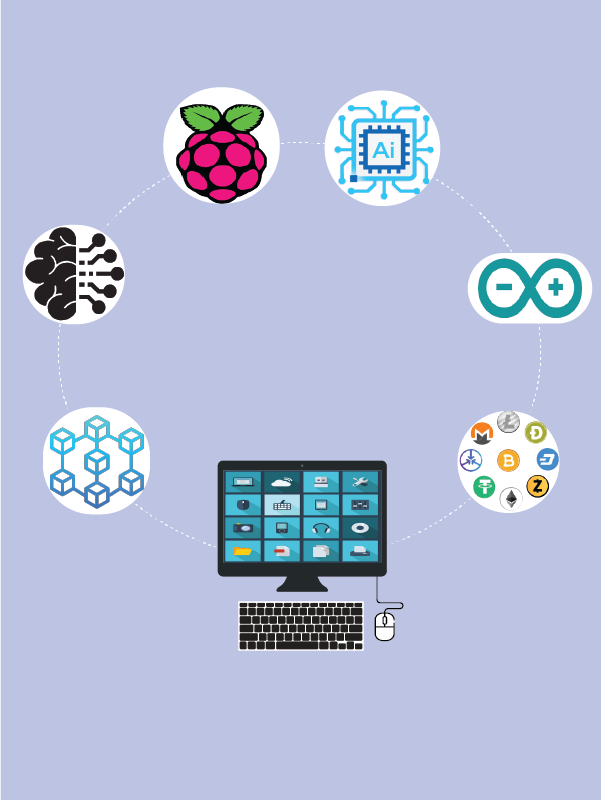
-Programming for MRI machines used for medical purpose at hospitals

-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.”

**A2:**

“Ensure policies, procedures, thoroughly solve problems in the entire ITC system. This helps the bank to function perfectly, limiting errors in storing or performing economic transactions”.

1. More detail





IT Technologies



1. Cybersecurity and Privacy

A picture containing invertebrate, light, dark, ctenophore

Description automatically generatedIn the time of technology development, networking is increasingly common and becomes important to people in daily life. They share themselves on social media like Facebook. In companies, they use the internet for controlling the system and storing data. Due to this, they easily become targets of cyber attacks. Hence, there is a need of the security for networking to prevent violations of the access from cyber threats.

Cyber security is about doing solutions and measures for protecting the computer system and data against threats on the network, such as malwares, unauthorized access, and ransomware. Also, the security is stronger and more robust, the data will be protected safer and will not be fell into the hand of cyber threats. Hackers usually mainly phish money, inject malware into the system, and lose control of the system to cater to their needs or purposes. As the same with cyber security, privacy is a form of securing information that requests permission from users to access or login their data. This helps individual documents or personal details possibly avoid being snooped. Depending on the user’s permission, their information will be shared, used and collected based on setting the level of privacy from them. It is easy to see on social media. People possibly set up who can see their posts, for example public, friends, or only user, to keep their information safe on the network. They also are explained about the use of personal information transparently and simply in any cases before providing.

Graphical user interface, application

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Over the years, cyber security and privacy have increasingly developed and advanced more technology and knowledge. For knowledge, people have known and understood more about measures for networking safely. They use long passwords and make two factor authentications for the access. Moreover, Users are more self-aware about using and protecting individual data. They have had the limitation of sharing information. For technical security, there are many appearances of tools and software, which support protecting users against cyber threats. People use scan tools for confirming identity. There may be QR code, face ID, or fingerprint. Moreover, the governments have enacted laws and policies about using and providing data on the network. In many countries, people can delete personal information by sending requests, choose out of providing personal information to the third parties, and access data in the third parties if there is permission. Users also receive notifications about what type of personal data that companies have collected, and reasons that they do the use. In the past, cyber security and privacy were not too good for data protection. Some large companies in the world were the victim of many cyber-attacks and heavily suffered financial losses because connective devices and routers did not really activate efficiently, though they had spent a lot of money on the improvement of the system. Currently, people have had precautions for themselves and security software is more and more widely used on devices. Based on developing technology in these days, security software may be a good choice for improving in the future. It may add auto checking if there is unknown software running on the device or use to check the staff go to the companies by scanning their faces through the camera.

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4UCoRXhpZgAATU0AKgAAAAgADgALAAIAAAAmAAAIwgEAAAMAAAABBLEAAAEBAAMAAAABAtQAAAECAAMAAAADAAAI6AEGAAMAAAABAAIAAAESAAMAAAABAAEAAAEVAAMAAAABAAMAAAEaAAUAAAABAAAI7gEbAAUAAAABAAAI9gEoAAMAAAABAAIAAAExAAIAAAAmAAAI/gEyAAIAAAAUAAAJJIdpAAQAAAABAAAJOOocAAcAAAgMAAAAtgAAEYgc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAAAgACAAIAAr8gAAAJxAACvyAAAAnEFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAMjAyMToxMjoxNSAyMTo1Nzo1NAAABZAAAAcAAAAEMDIyMaABAAMAAAABAAEAAKACAAQAAAABAAAB9KADAAQAAAABAAABOOocAAcAAAgMAAAJegAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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kJCTxyZGY6bGk+eG1wLmRpZDphZTFkZGZmNi1lMTExLTQzOWItOWQ3MC1hNjU3OGMyYzM2YmM8L3JkZjpsaT4NCgkJCQkJPHJkZjpsaT54bXAuZGlkOmI3MTA4NjY4LWYyMWQtMGQ0NS1iZTc3LTEzMTQ1N2EwODViYzwvcmRmOmxpPg0KCQkJCQk8cmRmOmxpPnhtcC5kaWQ6YmUyMmZkYzAtMWI0OS00ZGE2LWExNGYtNzAxNWEyN2ZlNDE1PC9yZGY6bGk+DQoJCQkJCTxyZGY6bGk+eG1wLmRpZDpjMDkwYjUzMS1hYzhmLTRjNGMtYjQ2YS0wMzk5NGE3Y2QyMDg8L3JkZjpsaT4NCgkJCQkJPHJkZjpsaT54bXAuZGlkOmMxNjNjNTFkLTBlOTktOTU0YS1iNjhiLTk3Yzg2YzgxYjU4MjwvcmRmOmxpPg0KCQkJCQk8cmRmOmxpPnhtcC5kaWQ6YzRhODA5NTMtNWNlNy00MzA1LWFmODktNWNiMzM3N2M2YzhjPC9yZGY6bGk+DQoJCQkJCTxyZGY6bGk+eG1wLmRpZDpjNTIyY2MwNi1mZjVjLTRhZmMtOGI3My0yZTBhYzdkN2Q3MzU8L3JkZjpsaT4NCgkJCQkJPHJkZjpsaT54bXAuZGlkOmM4MzQxZDA3LTEyMDktZWM0Ni05ZGNkLTQ3M2JjNGU4OTEyMDwvcmRmOmxpPg0KCQkJCQk8cmRmOmxpPnhtcC5kaWQ6YzljOTJhNmEtNjFjNC0xMTRmLWJjZGEtODg2YWYxZDlhMzNiPC9yZGY6bGk+DQoJCQkJCTxyZGY6bGk+eG1wLmRpZDpjYjY4ZWZjZS01MzVjLTRmMTAtYjU5MS1iZTdkZjVlODEwODg8L3JkZjpsaT4NCgkJCQkJPHJkZjpsaT54bXAuZGlkOmQ2YTdkN2ZkLTJiY2ItNmQ0Ni05YTNmLTI5Yzg2MDZkZTdjMDwvcmRmOmxpPg0KCQkJCQk8cmRmOmxpPnhtcC5kaWQ6ZGRhOWM5YWMtMGZjZC1mZjRkLWEzMDUtMzljNDg1ZDI0ODZhPC9yZGY6bGk+DQoJCQkJCTxyZGY6bGk+eG1wLmRpZDpkZGRmMTBjMS03ZWZmLTEzNDktYjE4YS1mYmIzMmQyZGZkOGQ8L3JkZjpsaT4NCgkJCQkJPHJkZjpsaT54bXAuZGlkOmUzOTUxMzcwLTViMzItZGQ0Ny1hMzk1LWI4NzdiYzYwZTc5YzwvcmRmOmxpPg0KCQkJCQk8cmRmOmxpPnhtcC5kaWQ6ZTQ3ZDgxNjAtZDdhZi00M2Q2LTgzMmMtN2Q5NGJmNzZlYzNjPC9yZGY6bGk+DQoJCQkJCTxyZGY6bGk+eG1wLmRpZDpmNzJhNTM4YS1kOGZiLTRlMDgtYmE3Ny1kZmEyMjYzMWYxZDA8L3JkZjpsaT4NCgkJCQkJPHJkZjpsaT54bXAuZGlkOmZiODI3ZmU4LTA5YzQtOGI0NS1hNzlhLWJlMGM2ODg3OGQ0NTwvcmRmOmxpPg0KCQkJCQk8cmRmOmxpPnhtcC5kaWQ6ZmRhZmUxN2QtMGExYy00YTk1LTlkM2QtZTkzMTQ3YjlhZDc4PC9yZGY6bGk+DQoJCQkJCTxyZGY6bGk+eG1wLmRpZDpmZWYxY2Q5MC0wMjJmLTQyN2UtYWJkOS02MmExOTZhZDgxNjI8L3JkZjpsaT4NCgkJCQkJPHJkZjpsaT54bXAuaWQ6ZGZlNzcwYTctMjUwOC00ZjdmLTg5NmEtNjQ4M2MzMmI1OGJlPC9yZGY6bGk+DQoJCQkJPC9yZGY6QmFnPg0KCQkJPC9waG90b3Nob3A6RG9jdW1lbnRBbmNlc3RvcnM+DQoJCTwvcmRmOkRlc2NyaXB0aW9uPg0KCTwvcmRmOlJERj4NCjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC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picture containing graphical user interface

Description automatically generated

 With the development of cyber security, businesses will be affected the most in any sector. They can have personal information of customers when customers reveal or write on their database, and they use the infrastructure, IP or Mac addresses to associate with an individual. Therefore, when data is used for the security system, people will probably be identified. In enterprise eco-systems, the user’s server systems tend to be managed in an organized manner. However, they just can show customer’s data in the limitation and are not able to reveal it to third parties without permission, because revealing it can affect customers badly. There will probably be the approach to them or their locations with targets like attacking, scamming and disturbing. For example, customer’s data in banks often has attention from sellers for marketing. The seller will probably text messages or call customers to ask them about buying products or services every day. This will make people uncomfortable because of the seller’s importunity. At the same time, revealing the information without permission leads to the company losing the trust from customers. In addition, this development will replace the guard who checks in the staff go to the company and reduce the number of guardian working. Many companies apply to use cameras for tracking, so the guarder just need to work when there has problems about the system.

A picture containing person, outdoor object

Description automatically generated

In the time of technology 4.0, internet becomes very common to people in many fields, especially the society. Almost all of people have used social media for interacting and contacting each other. Because of this, I have been using several applications like Facebook. When I used for over one year, I worried about losing data, which is pictures and some documents in my account and the application suggests to me measures to protect the account by adding my personal information for confirming identity and avoiding unknown access. Also, I often change my password to keep the account more secure. I usually use numbers and texts for the password to make difficult to remember, but it often brings the connotation related to my favorites or hobbies. Furthermore, my personal information is not posted publicly. I keep it individually on social media, or only my friends can see it. This affects my parents a lot for networking. They worry about the way that my siblings will share a lot of individual information without thinking, because we will be the target for scammers. Therefore, my parents sometimes talk with us about keeping and sharing information in reasonable way.

A picture containing text, person

Description automatically generated

1. Small computing devices

It can be seen clearly that Information Technology (IT) seems to appear in the whole world and impact a lot on our lives. IT was simply known as a field that use technology to store and process data. Areas of IT typically Artificial Intelligence (AI), Blockchain, Computing, etc., are growing and being more popular day by day. And with a demand that is convenient and portable for users, small computing devices becoming an indispensable part of IT. So, what is computing? It can be explained that computing uses algorithmic procedures to manage and process data including designing, developing, and building hardware and software systems various kinds of information. Small computing devices are closely related to the portability of hardware, data, and software in computer applications. In this report, we will show some types of small computing devices, including what is familiar to us such as laptops, smartphones, watches, etc., or some that may not be universally known, these are single-board microcontrollers and single-board computers.

In general, small computing devices can be called a boom evolution of the IT world. The primitive devices which were simple, limited capacity as well as cumbersome, and unportable were replaced by small computers however sophisticated which are more powerful with an elegant look and mobile. It can be said that microcomputers handled many tough questions of the old computer systems and change the way the world work. In spite of the small computing lowered the production cost and size of the system, the productivity and effects of these devices are not reduced, but significantly improved. It is not only access and evaluates data quickly and accurately but also helps individuals deal with their work problems easier. Moreover, its handiness is also an advantage that attracts users and makes it become popular and well-received. These days, small computing devices are applied in many fields such as healthcare, education, economy, etc., and it can be seen clearly that it helps everything simpler to be processed. The most typical example is that thanks to small computer devices such as laptops, smartphones, which are connected to the Internet, users can connect and communicate with each other easily anywhere without being obstructed by geographical distance. It can be seen that small computer technology is developing rapidly day by day. And in the near future, it is likely that there will be many potential inventions from these devices that make us admire such as smart devices, hologram electronic devices (keyboards, screens, phones, ... )

Timeline

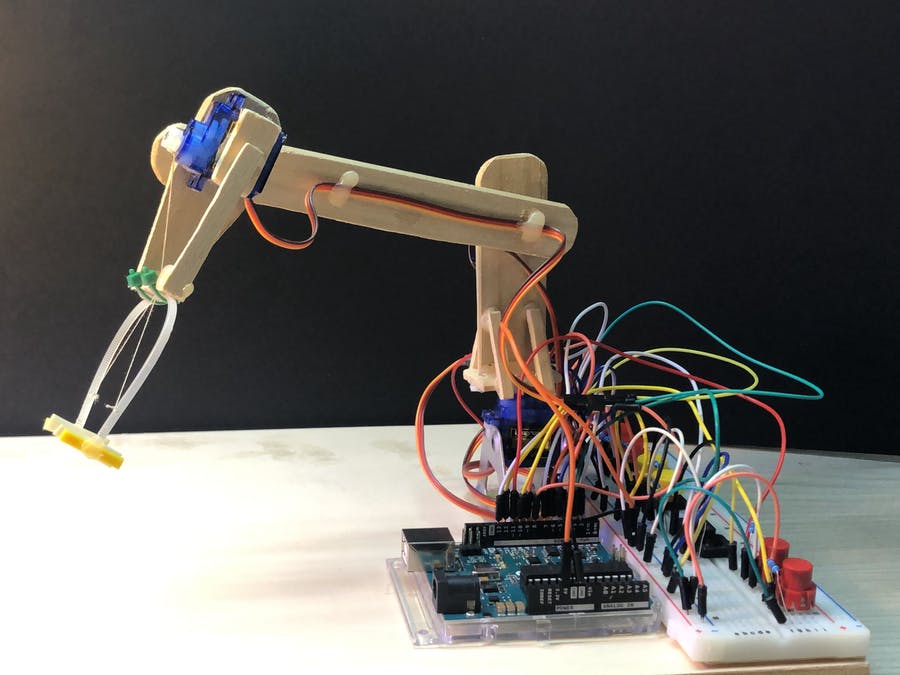
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Not only that, besides the devices that are so familiar to us, another aspect in the area of small computing devices is also very interesting and useful, which is the single-board microcontroller as well as the single-board computers. These single-boards can simply be understood as low-cost, credit-card sized computers. Popular and particular names when it comes to microchips include Arduino and Raspberry Pi, and an extremely interesting invention in the 21st century - Makey Makey. Arduino is a single-board microcontroller used for building electronics projects. Instead of needing a separate piece of hardware similar to the previous circuit boards, users can simply code and program for Arduino by connecting with an IDE on the computer by USB cable. Moreover, it is easier for beginners to learn to program because it uses a simplified version of C++ to code. Besides, Arduino also can be received and transmit data through a variety of sensors and other motors and actuators. Arduino can interact with buttons, LEDs, motors, speakers, GPS units, cameras, the internet, and even your smart-phone or your TV. Arduino is often applied in interactive systems, especially automated systems. Projects on automated systems from Arduino are of great interest, especially to digital electronics experts. Products from Arduino can include home automation systems, robots, light control systems, health monitoring devices, etc. The Arduino can really be used as a brain in these projects. It can be seen that, with the current era of automation, automated products are gradually becoming popular, and Arduino is a choice that can be said to be the best in experimenting and A picture containing text, electronics, circuit

Description automatically generatedeven inventing the finished product at a reasonable cost.

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Different from Arduino, the Raspberry Pi is considered a single-board computer, which means a full computer can be built on it. The Raspberry Pi is a simple version of the same hardware in the laptop and the Raspberry Pi runs a Linux operating system. Raspberry allows programming in languages like Scratch and Python. Moreover, not only has the ability to interact with the surroundings, but Raspberry can also perform functions identical to a desktop computer such as word processing, Internet access. Raspberry was invented with the purpose of helping everyone, especially children, easily access programming, thereby improving their thinking and development skills. Applications like Tablet computers, Home automation, Internet radio, remote controlled robots, Cosmic computers, etc., are also based on Raspberry Pi. Raspberry can be seen as the future of computing devices. With its portability and relatively low cost compared to other devices, Raspberry offers a lot of things beyond our expectations. Raspberry is capable of handling anything comparable to a laptop. It is really a potential device in the technology industry in particular and has the ability to change the way the world operates in general.



And an extremely interesting and experimental invention in the field of small computing devices is Makey Makey. Makey Makey makes it possible for people to interact with their computer using anything around them instead of using a mouse and keyboard. They can control with clay, fruit, etc, and anything connected to the circuit board thanks to clips and alligator wire. In my opinion, this is an invention that deserves attention and development investment, it helps people have a different view of the programming world. Programming is not simply dry lines of code, but we can apply them anywhere, any object around us. Makey Makey projects are fun like ladder piano keys, you can even connect and use a banana instead of the spacebar on the keyboard or simply draw arrows on the following paper, then connect them to the programmed board, which will replace the moving buttons. Makey Makey makes programming closer to life than ever, everyone can program. And especially, Makey Makey can also be connected to Arduino, from there, we can develop potential and useful projects.

Small computing devices have contributed a lot to the development and made people's lives more modern and easier. If in the past, technology devices often had a very bulky design to accommodate other components inside, making people's access to technology limited, but today, the advent of small computing devices significantly solved these problems. In the future, these computing devices are still likely to be developed and even more compact in size and improved in performance, as well as inventions of automated products will be made. These projects will probably replace the current unoptimized devices, and most likely in the near future, automated devices will replace traditional devices, the way the world works gradually change and develop over time.

Indeed, small computing devices have changed my life so much. In the past, when devices such as laptops, smartphones, even the Internet and WI-FI were not popular, accessing new information and knowledge was really difficult for me. In addition to reading books and absorbing the knowledge at school, to find more new information, I have to go to places with computers connected to the Internet to access and search for information. In addition, it is not easy to keep in touch with friends and relatives who are far away. Now, thanks to the great development of information technology in general and small computing devices in particular, the above problems are no longer difficult for me. I easily access the Internet and find information on my laptop, and even on my smartphone. It's also become easier to connect with people. Also, when I started to learn about single-board microcomputers, I gained a lot of knowledge about programming and I also found it very useful. I made a simple automatic plant watering system out of these circuit boards to make taking care of my parents' plants easier. To me, the development of small computing devices can be seen as a revolution in the world of IT and it will help the world develop a lot.

1. AI & Machine learning
2. **What is AI?**

Icon

Description automatically generatedArtificial intelligence – Artificial intelligence is simply understood as intelligence demonstrated by machines. the opposite of it is the intelligence shown by living things, animals including humans. Machine learning (ML) in a particular definition ML is a branch of AI, it is a field of study that allows computers to have the ability to improve themselves based on training data or training data. based on experience (what has been learned). Machine learning can predict or make decisions on its own without being specifically programmed. There is no exact definition of intelligence, but a machine is considered to have intelligence when it exhibits at least one characteristic in the following table, the more characteristics shown, the more intelligent the machine.

|  |  |
| --- | --- |
| Characteristics | description |
| Reasoning (problem-solving) | Consciously make sense of surrounding, apply logic and adapt actions based on new or existing information |
| Perception | Be aware of interpret and extract meaning from sensory information, both presented directly and in the surrounding environment |
| Natural language communication | Communicate using language that has evolved through use, as opposed to artificial or constructed language |
| Learning | Gain knowledge or skill by study or experience, including to improve the performance of an activity |
| Representing knowledge | Depict into information about an item, activity or surrounding environment and ascribe meaning to it |
| Planning | Create strategies or sequences of actions to achieve an intended goal |
| Social awareness and skills | Understanding the reactions or likely reactions of others when interacting with them, and modifying behavior accordingly |
| General intelligence | The integration of intelligence capabilities to solve new, unexpected or undefined problems |
| Motion and manipulation | Ability for something to move itself or move and control objects |

1. **The transformation of AI**

Artificial intelligence is created to solve problems that require human intelligence such as virtual assistants, voice recognition, image recognition, decision making or language translation ... To find a way to help machines solve complex problems in life, we need to go from the simple problems first. The most representative issues, again, come from gaming, where there are fixed rules and clear goals. And to learn about artificial intelligence, let's learn about the history of how computers (algorithms) solve real-life games.

Start with a 3x3 checkerboard game. At this point, the calculator simply stores all the possible moves, compares them with wins to make a move. Knowing 100% of the possible cases, making the optimal move is not difficult for computers. similarly, AI at this time can only interact with users through pre-loaded data.

If 3x3 checkerboard is a simple game, chess is not like that, it is almost impossible to list all the possible moves. Therefore, the AI ​​algorithm in the computer has also been upgraded, not only using a larger data base with more than 750,000 positions already loaded, and the ability to calculate the probability of each move and predict in advance from 2- 10 steps. IBM's Deep Blue in 1997 was created and has now won the highest Elo chess challenger, Kasparov. This algorithm is not only designed to play chess, but it also lays the groundwork for practical applications important computer science was at the heart of the competition, which advanced computers' ability to handle the kinds of complex calculations required to help discover new medical drugs, conduct broad financial modeling to identify trends and conduct risk analysis, search large databases, and perform massive calculations in a variety of fields. Although it was successful in winning, Deep Blue's algorithm also introduced many limitations: required technological power, algorithmic accuracy, and effort to initialize that algorithm, so the It's still not possible to apply it to everyday life.

After 20 years, in March 2016, AI proved its potential again when it achieved a new breakthrough when winning against Korean Go player Lee Sedol, who has the 2nd highest Elo score in the world. at that time. In the game of Go, the artificial intelligence Alpha Go is a combination of a convolutional neural network, a Monta Carlo search tree equal to the public value network with the results of the simulation games. This marks the ability to only follow what is programmed, but the computer can also create and learn to supplement its own data warehouse. To demonstrate the madness of artificial intelligence's self-learning ability, Elon musk created the OpenAI team, which studies artificial intelligence in even more challenging games – Dota, a game The game has billions of actions and moves at a time. After 1 month of training, artificial intelligence has made the most talented gamers in the world can only say: "it is a smarter version of me".

1. **AI – Potentials and Challenges**

AI's potential is huge when in many industries, AI has proven its usefulness. can be mentioned as in traffic. Autonomous vehicle technology is being developed and shows that they can become mainstream in the future. When vehicles are all connected to the network and controlled by AI, coordination will become extremely efficient, reducing traffic jams, fuel consumption or even traffic accidents. Moreover, the current artificial intelligence has been able to do what was previously thought to be unique to humans, which is to create art, although it cannot create independently, it still needs the help of humans. but some artificial intelligences are now able to write songs themselves, paint completely new pictures. AI shows that this is an extremely powerful and useful technology when placed in each field, I believe it is even more powerful when applied to IOT - internet of things. with each AI-powered device, they can connect to each other to become a smooth, efficient, and optimized network of devices.

Despite such promise, there are many challenges to achieving such potential. The first can be mentioned is limited hardware power. In the context of the covid-19 pandemic, the supply of semiconductor chips - the main component in microprocessors is extremely scarce. Smarter AI software requires more hardware power, and this requires an equally large amount of funding. This limits the application of popular artificial intelligence in life. Besides financial limitations, algorithmic problems are also considered as another obstacle when they are not really optimized and are still heavily dependent on human support. However, those are things that can be solved in the near future when technology is developing, and advanced algorithms are being developed day by day. The moral impediment is still controversial. Assuming an autonomous vehicle causes an accident, who is to blame, the developer, the driver, or the vehicle manufacturer? and finally, is AI trustworthy? If AI is integrated in the IoT system, all of our devices are connected to AI's information network, which means that the personal information of users will be easily collected by various sources of equipment.

1. **Impact**

In some fields, with the advantage of fast calculation ability, AI can make accurate and quick decisions to help get the job done quickly and avoid "human mistakes". Besides, dangerous jobs can also be assigned to AI robots. Artificial intelligence's most significant benefits by constructing an AI Robot that can do the dangerous tasks for us, we can transcend many of humanity's risky limits. It can be utilized efficiently in every type of natural or man-made disaster, whether it is travelling to Mars, defusing a bomb, exploring the deepest regions of the oceans, mining for coal and oil.

With its applications automating the majority of the job, AI is making people lazy. Humans are prone to get hooked to these advancements, posing a threat to future generations. Furthermore, when AI replaces robots for the bulk of repetitive activities and other duties, human intervention is reduced, posing a serious concern in employment standards. Every company is attempting to replace minimum-qualified employees with AI robots that can perform comparable tasks more efficiently. Even more alarming, artificial intelligence accelerates the pace at which things may be achieved, and in many circumstances, it outpaces our capacity to keep up. With automation, criminal behaviors like phishing, virus transmission to software, and taking advantage of AI systems because of the way they interpret the world may be difficult for people to detect until a genuine problem arises.

1. Block Chain & Cryptocurrency

As 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.

1. **What is Blockchain?**

A picture containing application

Description automatically generatedBlock 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” [1, 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.

1. **Bitcoin – the first cryptocurrency**

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” [2]. 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 [1].

1. **How cryptocurrency work?**

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 [2]. 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.” [1]. 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

Description automatically generated

1. **Proof-of-Work (PoW) vs Proof-of-Stake (PoS)**

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.” [1]. 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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1. **Cryptocurrency impact on today life.**

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

Description automatically generated

1. **The potential**

Today, Blockchain technologies is applied everywhere in our life. From medical records to bank statements, everything that required strict attention to security level can use the Blockchain technology. However, the only downside of Blockchain is that due to the nature of it, each block can only contain a small amount of data. Thus, the user would have to be very precise on which data they wish to store. Cryptocurrency on the other hand has been a controversial in the past few years. It is a dynamic market with high risks high profits. Many has become millionaire thanks to cryptocurrency. However, a significant of investor had declared bankruptcy because of it. Nowadays, many companies had come up with new idea on the application of cryptocurrency. Many decided to create a totally virtual world with a fully functional financial system using cryptocurrency. Facebook-now changed their name to Meta is the pioneer in this field. Other companies decided to create a new category of games that is “play-to-earn”. Basically, the players just have to get involve in the game so that they can earn the in-game currency. These currencies can be coins that was developed by that company and can be exchanged to real money later. Well-known names in this field are Axie Infinity, Decentraland, Mir4, etc.

1. **Conclusion**

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 shape

   Description automatically generatedMore detail

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: stack overflow, geek for geek, Wikipedia, Youtube
* libraries: google voice recognition library, pyttsx3, Mediawiki API, Spotify, date and time
* Tool: computer with internet connection and full devices include display, microphone, and speakers.

At the moment, 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

**Feedback**

Name

Email

Enter feedback here…

Submit

**Quy’s feedback**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Evaluation** |
| Trinh Viet Quy | Team leader – Back-end developer | As a team leader, I always try to track the progress of the team's work as well as that of each person. I always try to make some necessary corrections and help members access information and ideas to support their work. However, I still feel that I still lack a lot of experience in how to operate such as how to coordinate and assign work, set common rules to unify the way the team works. Personally, I find myself still not able to help the team run smoothly as expected. My second role in the team is as a back-end developer, with a background of learned python programming language and some of its applications, I was able to complete the project framework relatively well. group project. However, my knowledge is still limited, so when adding tasks to the project software, there are still unexpected errors or not able to run smoothly in different environments. |
| Nguyen Thi Ha Giang | Web/front-end developer | As the web/front-end designer on the team, she's almost perfect at her job. With a good understanding of CSS, HTML, JavaScript, she can create a website that meets almost all requirements that the team can set. she always does her best job and is constantly updating information and asking for input from the whole team. However, Giang's creativity in design is still limited, even though he creates things on the web, they often do not have a unified style. In return, she is very patient in receiving comments and updates. It can be said that in her work she is very hardworking and dedicated. |
| Nguyen Tuan Thang | Application UX/UI designer | Although Thang has no experience in the role, his team spirit is quite good. He is very diligent in learning and absorbing knowledge. However, Thang tracked and arranged the time better. Win while still being late in submitting deadlines as well as participating in group meetings. |
| Tran Khanh Duc | Reporter/Editor | In my personal opinion, Duc is a very dedicated person in his work. He does a pretty good job as a reporter. My writing and presentation and report are very good, but the layout and design still need my help. Despite making many requirements, Duc still did not hesitate to modify the product to neutralize the ideas of everyone. |
| Summary | Overall assessment, although the team is still inexperienced in their roles, in general everyone's work ethic is very good and there is much to learn. I believe that next time we can understand each other and make the group work better. | |

**Duc’s feedback**

-Overall, the team work well together. Each member in the team is very responsible and self-discipline.

+Quy is an excellent leader, he can transmit his ideas to the team smoothly and respectfully. He is not bind to his own ideas but rather collect all the members suggestion and synthesize them to come up with the final decision. He is also very helpful toward every one of us, he always gives a hand to help us whenever he can. Quy is also very skill at his job of being a back-end developer.

+Giang is a warm person who did excellent job at connecting every member. Maybe because the others have worked with each other before so they can communicate naturally and work efficiently. Despite me being the new teammate, I did not feel left out as Giang is very communicative and she would inform me the important information if she think that I did not know. She is also very responsible toward the tasks and did really good job as a front-end developer.

+Thang is the UI/UX designer of the team. Even though he does often chat in our workspace, during meeting he does not speak much but he is very responsible. Every task that was given to him was carried out very quick and precisely.

+If I have to feedback on myself, I would say that I did a satisfied job as a reporter, I finished my tasks and present the product to the team early enough to spare some time for feedback and enhancement. The only thing that I feel ashamed of is the fact that my coding skills are not good, I had to rely on the teammates a lot. I will try my best to learn more about coding devote more to the group.

**Giang’s feedback**

It can be said that my team is a concentrated group of people of responsibility and enthusiasm. Honestly, I am very satisfied and excited to be working with my current team members. In order to better understand the duties as well as responsibilities and working process of each member, below I will give the most objective assessment of each member of my team.

Trinh Viet Quy, it can be said that he has done a very good job of being a leader, a person who manages the working process of the whole team and motivates everyone to work. To me, Quy is a passionate and creative person, he often brings new ideas to the team as well as gives feedback and corrects what we do wrong. In addition, he also acted as a back-end developer for our product in this project. You always submit information and complete assigned tasks on time each week, which is commendable.

As for Tran Khanh Duc, in my opinion, he is an extremely creative person with an artistic eye. In this Assignment, he is in charge of designing and searching as well as compiling information for our pdf report. He has designed a very vivid and beautiful report, making the reader not feel bored. In addition, Duc is also very responsible. He was usually the one who entered the meeting room earlier than our scheduled time. Duc is also a good listener and always accepts the opinions of other members to modify and improve his work.

The third member of my group is Nguyen Tuan Thang. Thang is a good listener and always tries to complete his tasks in the best way. In this project, Thang is responsible for designing and developing the interface for our product. Previously, Thang had no experience in programming UI/UX for an application. However, with the spirit of learning and absorbing new things, Thang has done his job well. I highly appreciate Thang's spirit of learning.

Finally, me, Nguyen Thi Ha Giang. This time, I have the task of designing and developing a website. With my knowledge and understanding of HTML, CSS as well as Javascript, I believe that I have completed my task well. However, in my opinion, I still have a lot of room for improvement. The first is probably about my creative thinking, I feel that I am not really creative and flexible in designing websites as well as finding information, I have searched and learned from many different sources. to support their work. Besides, I feel that I'm not really on time, there are times when I arrive later than the scheduled time, this is the biggest shortcoming I need to overcome.

We each have our own strengths and weaknesses, however, I feel we have supported and helped each other very well. In this Assignment, everyone put a lot of their heart and responsibility into the project. I am very happy to work with the team members and I hope we can work together on many other projects.

**Thang’s feedback**

In the processing of doing the project, my team has worked really hard. Each member was in charge of each task and has paid great attention to working on the assignment. Also, everyone is enthusiastic to share ideas, and give opinions for having the best choice to make the project better. Therefore, I have felt that we are a good team with the fit through the ability and personality of each member. In this writing, I will evaluate and give comments about each member in the team.

To start with me, Nguyen Tuan Thang, I have received building and designing the interface for the assistant. I have tried to research and watch videos to understand functions on Python, which is used to build the front end. Though I still lack a large amount of knowledge about IT languages and programming, I will try to finish the project as well as possible. I feel that I have more responsibility and motivation while doing. I tried to complete my task and support members a few within my ability to work on the report of the idea.

Next, this is the leader of my team, Trinh Viet Quy. He is very responsibility about what he does. He set the time to make meetings on every week for communicating each member in the team and divide the assignment into parts to do reasonably. Also, Quy is an organized person. He gives time to us to know when need to complete tasks to check for fixing and preparing for the next task.

The next member is Tran Khanh Duc. I have seen a unique assignment that is designed by him. Duc is a creative person for designing. He makes the team’s profile fascinating while reading by dividing into small parts and adding pictures. Our report becomes more interesting thanks to his artistic eyes. In addition, Duc always listen opinions from us to choose and design flowing the character of each member.

Nguyen Thi Ha Giang is the final member in our team. She is in charge of creating a website for the assignment. She can use several languages like JavaScript for building the program and designing the interface of the website. She works very hard to do in the best way. Furthermore, Giang is positively for giving opinions to develop the project.

To sum up, each member in our team has suitable characters for working on the assignment. This helps us possibly support each member to do and fix when they have problems or misunderstandings. I feel excited when I do the project in this team.

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