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**COSC-2083 Introduction to Information Technology**

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

**Lecturer: Nguyen Minh Long**

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**Our IT project**

**Jeff the virtual assistant**

**A Report by group 6**

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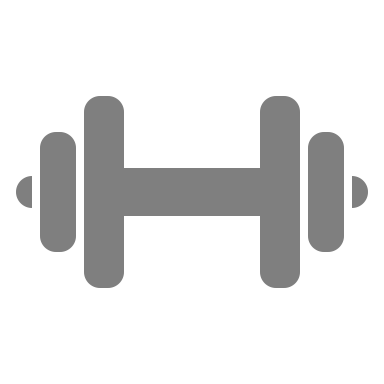
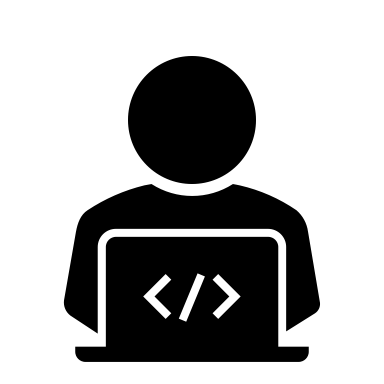
[**8. References** 45](#_Toc82982182)

1. **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. Personal information

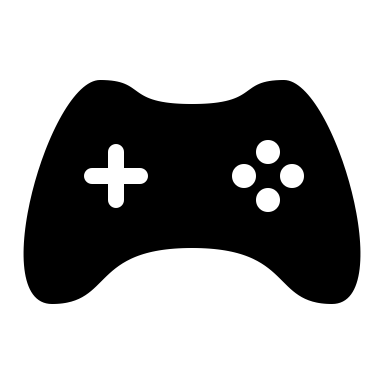
1. Student number: s3915202
2. Role: Back-end developer

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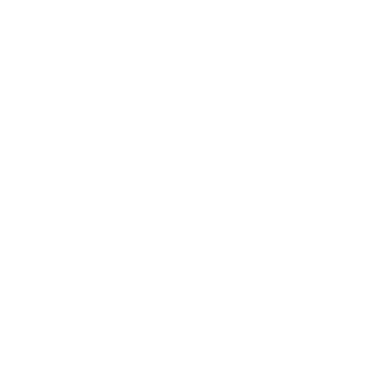
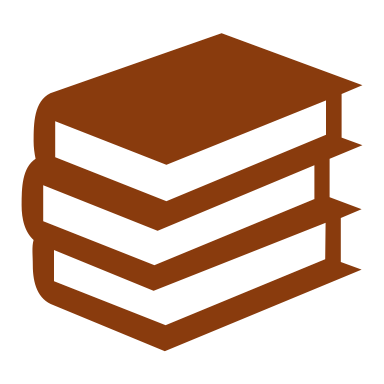
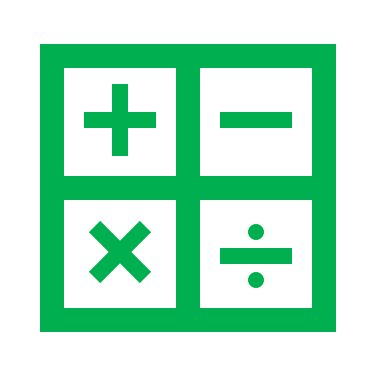
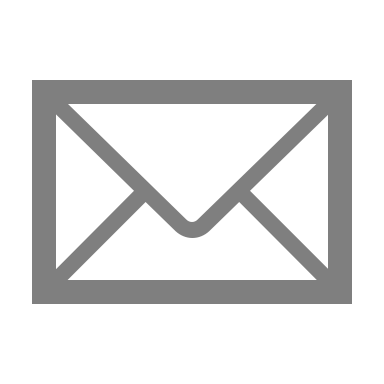
Contact

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“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*



1. Student number: s3914108
2. Role: Front-end developer

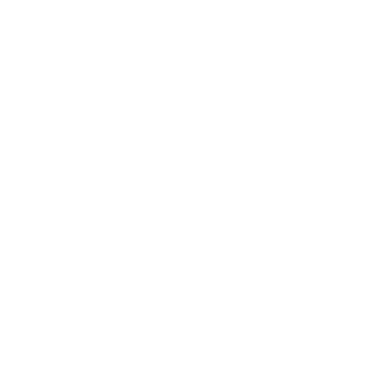
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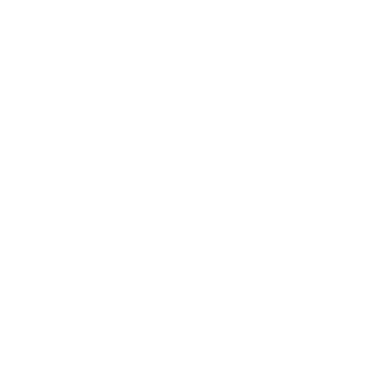
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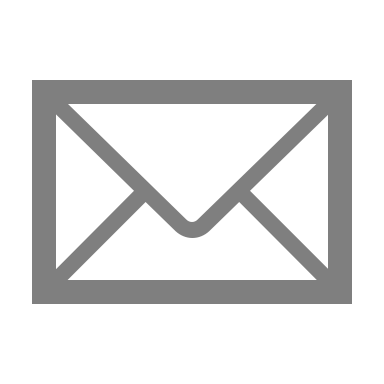
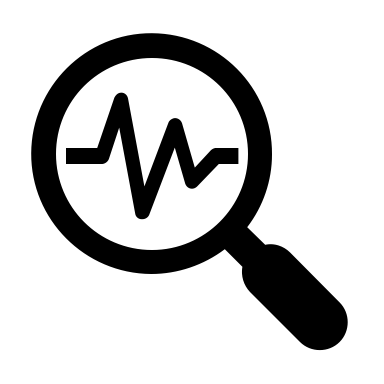
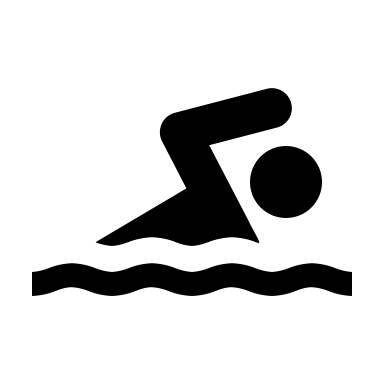
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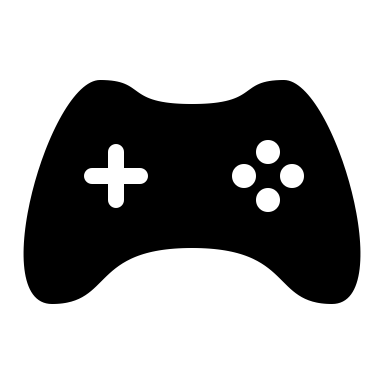
“I was born and grown up in Ho Chi Minh City. During my time in Secondary Highschool, I had a chance to experience Pascal Programming. From there, I realize that information technology is a powerful tool that can solve many math problems with just some simple lines of code. Ever since I know about gaming 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”.





*Nguyen Thi Ha Giang*





“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.”

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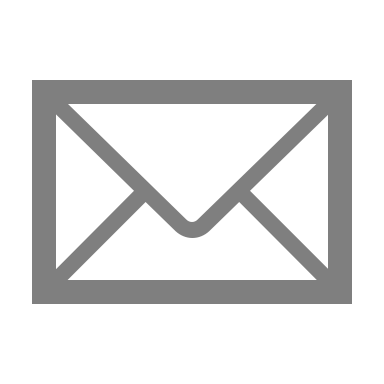
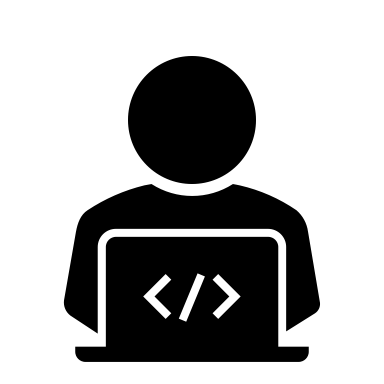
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1. Student number: s3907087
2. Role: Reporter/Editor

*Tran Khanh Duc*

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“I was born in a small village in Hai Duong, Vietnam.  After graduation in high school, I went to Ho Chi Minh City for studying in the university. In IT field, I am really interested in programming which is about building games. When I was in Highschool, I used to 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.”

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1. Student number: s3877039
2. Role: UI/UX designer

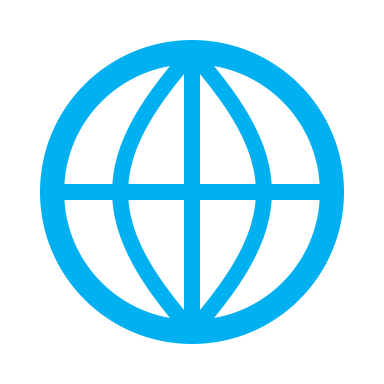
*Nguyen Tuan Thang*

* 1. **Group processes**

-Overall, the team works well together. Each of the members is very responsible and reliable. We always try our best to finish our tasks before deadlines so that we have more time to review our work. Moreover, everyone is very supportive toward each other. If one member finishes his/her task, he/she would voluntarily help other members who are still working on their tasks. Because of this, we work very effective and fast. However, the members still have differentiations so sometimes, we have disagreement during our work. Despite that, we are very thoughtful toward each other and try our best to take into consideration the proposals of other members and create the final products that we all feel satisfied about. In the context of the project being extended and we are invested to create the saleable product, the team would have to find a way to communicate more and set up offline meetings so that features could be planned thoroughly.

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| --- | --- | --- | --- | --- |
|  | Quy | Giang | Thang | Duc |
| Ideal job |  |  |  |  |
| Workplace |  |  |  |  |
| Working hours |  |  |  |  |
| People |  |  |  |  |

* 1. **Career plans**

1. **Tools**

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

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

1. **Project Description**

**3.1. Overview**

**3.1.1. Topic**

For some people, time is as value as gold. There is too much work to do while time is limited. Hiring an assistant seems to be an amazing way to share the workload and boosts productivity. However, it is not easy for an employer to find the perfect assistant who can keep up with the workflow while at the same time, understanding the employer’s need and still able to maintain productivity. Not to mention, hiring an assistant also means the employer has to pay them salary like any other employees. In today world, when technology gradually replace human in many fields, virtual assistant is a new way for the busy businessmen to keep track on their work as well as function like any other real assistant. Despite that, virtual assistant seems to be a new and strange concept for the people of Vietnam, many claims that they are not familiar with the technology and does not know the supported language to interact with the assistant. Understanding these difficulties, in this project our team challenged ourselves to create a virtual assistant that can solve these issues.

Most available assistant today, such as Cortana or Siri operates on a very high level of technology, too advanced that many users cannot understand the concept and the functions of it. What we did with Jeff was removing all the unfriendly functions of other virtual assistant and give him basic functions and commands so that newbies to technology would understand and can use Jeff as their first step to get familiar with the concept of virtual assistant. Jeff is capable of basic tasks such as searching with voice input, schedule and remind the users for the meetings, calls as well as texting, creates timers, etc. All of these functions can be operated by voice command and the supported language will be Vietnamese. We hope that Jeff can be the first step for Vietnamese people to get familiar with applying technology to their daily life. After getting familiar with Jeff, the users would have knowledge to upgrade his/her assistant to a more advance system according to their needs. Of course, there are still many rooms for Jeff to get improved and enhanced. However, the nature of Jeff will still remain a basic virtual assistant that functions fundamentally and act as the first steps to get into the vast world of technology.