Registration and Engineering Setup Report

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Abstract—This document is a report of the members and development tools used in 7th group.

Index Terms—members, development tools

I. TEAM MEMBERS

In this session we introduce our group members in no particular order.

A. Yulin Zhang

Name: Yulin Zhang
SID: 40264421
Program:Meng. Electrical and Computer Engineering
Email: silveralex2023820@gmail.com
SE Background: I specialize in computer graphics algorithms, game development, and software architecture, and I am good at C++ and Python. I used to work as a game engine programmer in Netease for 2.5 years, focusing on graphics algorithm development, such as real-time global illumination algorithms. I also have research experience in ultrasonic image diagnosis by deep learning and have published two SCI papers. I am eager to dedicate myself to the video game industry in Montreal.

B. Yuhang Chen

Name: Yuhang Chen
SID: 40253925
Program:Meng. Electrical and Computer Engineering
Email: yuhang.chen@mail.concordia.ca
SE Background: Master Python, familiar with Pycharm, VSCode, MATLAB, MySQL, and PostgreSQL. Familiar with the whole set of processes to build a GIS (Geographic information system). Ability to build website front-end interfaces using Vue. Worked for Tencent and Huawei as a software development engineer-testing intern. Interesting in computer vision and software development.

C. Jiaxi Yang

Name: Jiaxi Yang
SID: 40261989
Program:Meng. Electrical and Computer Engineering
Email: yjxyang2@outlook.com
SE Background: I specialize in front-end web systems and back-end systems, and I have mastered many languages, such as C, C++, Java, and Python. I am familiar with libs such as Spring, HTML, and CSS. Meanwhile, I have a lot of experience with PyCharm, Visual Studio Code, Visual Studio, IntelliJ IDEA, MySQL Workbench, and Microsoft Visio. I used to be a backend developer at Luo Yang Junda Real Estate Co., Ltd. for three months. I also have research experience in artificial intelligence, which resulted in 1 EI Conference Paper, 2 National Invention patents, and one more journal manuscript. Finnaly, I have a great passion for AI, Deep Learning, Computer Vision, and Web Development.

D. Boyang Wang

Name: Boyang Wang
SID: 40274468
Program:Meng. Electrical and Computer Engineering
Email: wangboyang0626@outlook.com
SE Background: I am good at C and Python. I used to work on a project about student performance management system. I also have some experience with embedded system. I am interested on software development industry.

II. DEVELOPMENT TOOLS

In this session we introduce the tools used in the project development.

A. Version Control

We use **Git** as our version control tool. The graphics interface of Git makes it easy to control the project version. We have built a repository on GitHub for our group, which ensures the steady advancement of our project.

In summary, our version control tool is **Git**.

B. Programming Languages

The project can be divided into two parts: front-end and back-end. As for the front-end, we use **HTML** to create the web page and **Javascript** to control the behavior of web pages. As for the back-end, we use **Python** to process the analysis logic. Python is a powerful language, which has a lot of development frameworks for us to boost our project progress, such as Flask.

In summary, we will use **HTML**, **Javascript**, and **Python** in this project.

C. IDE & Development Tools

Based on the languages we used in this project, we have chosen **Pycharm** as our main IDE to develop a Python back-end program. As for the database, we chose **MongoDB** for the data storage. Meanwhile, We decided to build up the project based on **Flask** framework.

In summary, **Pycharm** is our main IDE, and we will develop the project based on **MongoDB** and **Flask**.

D. Group Communication Software

We communicate with each other by **Wechat**. We are familiar with the usage of this app, and we have built up a development group for our communication.

In summary, we use **Wechat** as our group communication software.

E. Tracking Tools

Because we are a small group and have the requirement of swift development. We chose **Monday** (https://monday.com/) as our tracking tool to advance our project. Monday is suitable for small development groups, we can create an event easily.

In summary, we use **Monday** as our tracking tool.