

Developer Manual

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1. Development Specifications

1. Programming Language

Python, specifically version 3.9, was utilized for this project. (Python 3.8 can also work)

2. Preferred IDE

The project is best navigated using PyCharm, Visual Studio Code, or CLI.

3. Repository Initialization

Initiate by cloning the project's repository from its designated source. Please check the *README.md* for details.

CLI

```
git clone https://github.com/Zhiyuan-Holly-ZHANG/COMP3211_GroupProject_Year3Sem1.git
```

```
cd .\COMP3211_GroupProject_Year3Sem1\
```

```
# Ensure Python 3.9 is installed
```

```
py -3.9 --version
```

If you don't have python3.9

```
# it is suggested to create a new virtual environment
```

```
py -3.9 -m venv myenv
```

```
# Activate the virtual environment
```

```
myenv\Scripts\activate.bat
```

If you do have python3.9, directly do this:

```
pip install -r requirements.txt
```

4. Project Access

Open the cloned directory through the recommended IDE, PyCharm, Visual Studio Code, or CLI.

2. Execution in Debugging Mode

Python's interpretive nature negates the need for compilation. For debugging, employ the IDE's features, launching `main.py` and utilizing breakpoints for an insightful code walkthrough.

Appendix

A README.md

COMP3211_GroupProject_Year3Sem1

We are team 20

For developers

We assume your OS is Windows. (If not, please modify the format of the file path)

CLI

```
git clone https://github.com/Zhiyuan-Holly-ZHANG/  
COMP3211_GroupProject_Year3Sem1.git  
  
cd .\COMP3211_GroupProject_Year3Sem1\  
  
# Ensure Python 3.9 is installed  
py -3.9 --version
```

If you don't have python3.9

```
# it is suggested to create a new virtual environment  
py -3.9 -m venv myenv  
  
# Activate the virtual environment  
myenv\Scripts\activate.bat
```

If you do have python3.9, directly do this:

```
pip install -r requirements.txt
```

Run You are now ready to run this!

```
cd .\COMP3211_GroupProject_Year3Sem1\  
python main.py
```

Test

```
cd .\COMP3211_GroupProject_Year3Sem1\  
python test.py
```

B requirements.txt

coverage==7.3.2

pip==22.0.4

setuptools==58.1.0