COMP3211 Software Engineering

Group 1 – Developer Manual

MonopolyHong Kong Special Edition

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I. Introduction

Purpose of The Developer Manual

The purpose of this developer manual is to serve as a comprehensive guide for developers interested in **understanding**, **maintaining**, or **contributing** to the Monopoly Hong Kong Special Edition project. It is specifically designed to facilitate future development and to encourage collaboration in the open-source community through GitHub.

https://github.com/PhDinTimeManagement/Monopoly-Hong-Kong-Special-Edition.git

This manual provides detailed instructions on:

- Setting up the project environment on a specified platform. (Section II)
- Understanding the project's folder structure and the role of key files. (Section III)
- Building and running the game, in normal and debugging modes. (Section IV & V)

Brief Overview of The Project

The **Monopoly Hong Kong Special Edition** is a Python-based digital board game inspired by the classic Monopoly series, tailored specifically to highlight the cultural and economic features of Hong Kong. The game is built exclusively using Python's standard libraries, showcasing the capability of developing a robust and interactive application without relying on third-party dependencies.

The project follows the **Model-View-Controller** (**MVC**) architectural pattern to ensure a clean separation of concerns, improve code maintainability, and allow future extensions. The **Model** handles the core game logic, the **View** is responsible for rendering the user interface, and the **Controller** manages interactions between the Model and View. By adhering to this structure, the project maintains modularity and scalability for ongoing development.

II. Development Platform

Purpose of The Developer Manual

- Windows 11
- MacOS Sequoia Version 15.1

Version of Python Used for Development

- Python 3.11 (https://www.python.org/downloads/release/python-31110/)
- Latest Python releases version may also work but they are untested. Older versions are not recommended. (https://www.python.org/downloads/windows/)

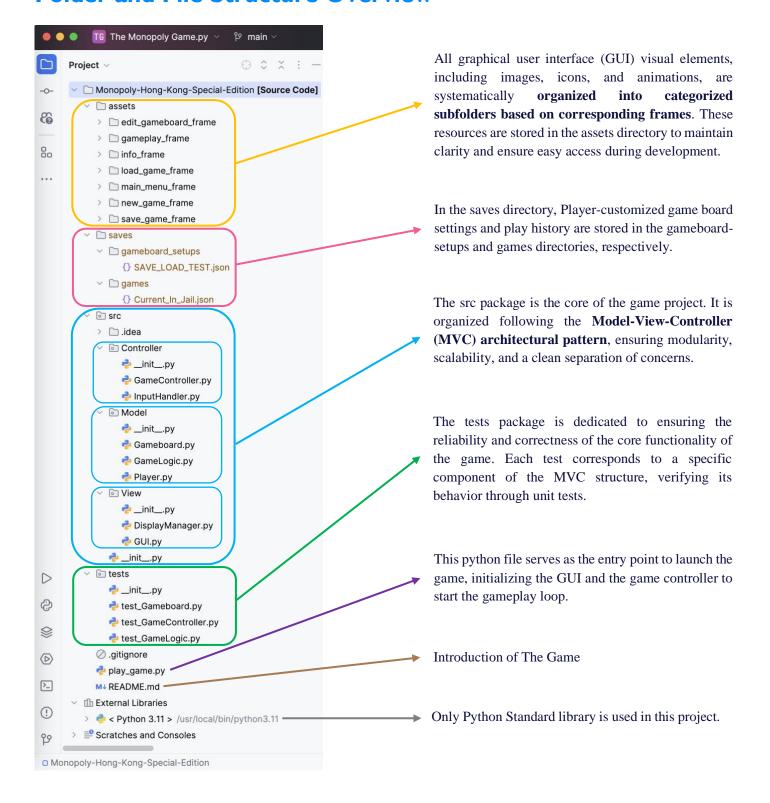
IDE Recommendation

- PyCharm Professional
- PyCharm Community Edition

(https://www.jetbrains.com/help/pycharm/installation-guide.html)

III. Project Setup

Folder and File Structure Overview



IV. Building andRunning the Game

Launch The Project in Normal Mode

After opening to the Monopoly-Hong-Kong-Special-Edition directory by PyCharm, open the 'Edit Configuration' option in the top-right corner and follow the instructions step by step.

->

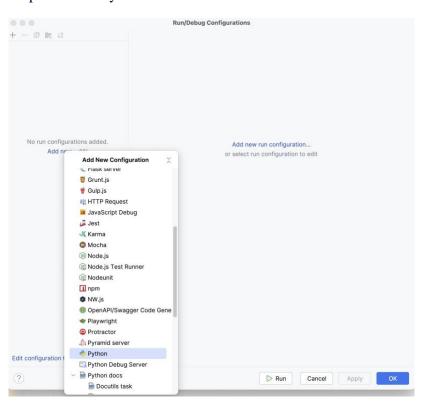
Step 1:



After Add Configuration

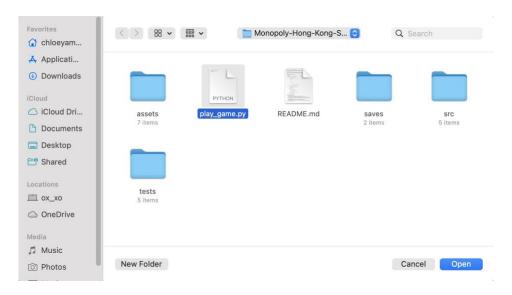


Step 2: Select Python

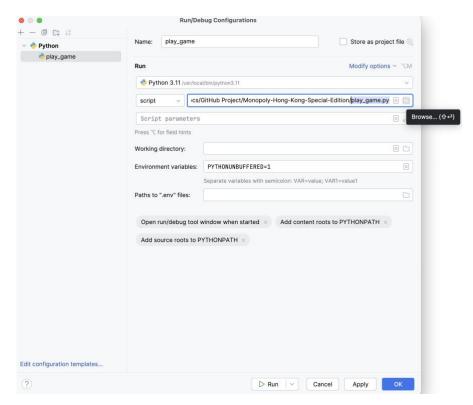


IV. Building andRunning the Game

Step 3: Browse play_game.py as script



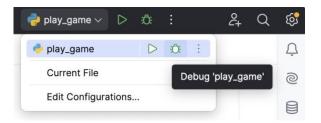
Step 4: Input name, and Click <Apply> button.



Useful Documentation: https://www.jetbrains.com/help/pycharm/run-debug-configuration.html

V. Building and Debugging the Game

Launch The Project in Debugging Mode



Useful Documentation: https://www.jetbrains.com/help/pycharm/starting-the-debugger-session.html