API/Test Revision Document

for

Monopoly

Prepared by:

MAN Furui (19081789d)
LIU Sicheng (19079181d)
WANG Meng (19078543d)
XING Shiji (19079008d)

The Hong Kong Polytechnic University
Software Engineering
Course Project
Prof. Yu PEI

Hong Kong, 18 November 2021

Contents

Chapter 1

Overview

This document is based on the API Designs Document and the Tests pack, and mainly reflect upon API changes and test modifications.

Chapter 2

API Revisions

2.1 Feature of field `Main.TEST` for Pseudo-Input

In the original design, some methods in the model package require user input, which is not feasible during the test. Therefore, A `boolean` field `TEST` is added in `Main`. By defining this as `true`, all methods in the `model` package will ignore the statements requiring user inputs.

Relevant methods and tests have to be revised to support this feature as well. To avoid the redundant work, all user interaction should be completed in the controller package, and the model package should only interact with the controller, which will make the test easier.

2.2 Feature of methods `Printer.printMsg` for Integrated I/O

Originally, all output of the program is directly printed through the System.out.print() family of functions. However, it is difficult to adjust the output details like indentation and colors, which makes the output plain and unattractive.

To address the issue, we replaced those calls with a new series of self-defined functions which support better typesetting and coloring.

Together with all printing functions, scanning functions are also integrated into `Printer`. As there are "quit" option detection in different stages of the game, an integration takes place.

Consequently, the readability and the aesthetics of the game has largely increased. Such self-defined output formatting functions and integrated scanning functions should be considered at the beginning of the software design to save effort and enhance the appeal of the product.

Chapter 3

Test Revisions

There are no significant changes of the Test packs. However, some minor fixes to bugs are implemented. The bugs related are mostly due to typo. There are also modifications due to the changes of API, whose changes are also insignificant.