COMP3211 Developer Manual

GROUP INFORMATION

Group number: 13

Group members:

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DEVELOPMENT ENVIRONMENT

Platform: macOS

JDK Version: Java 17

IDE: IntelliJ IDEA 2023.2.4

Build Tool: Maven (3.8.0 or higher)

Testing Framework: JUnit 5

RUNTIME REQUIREMENTS

Operating System: Windows, macOS, or Linux

Java Version: Java 8 (1.8) or higher

Environment variables:

Required Java environment variables
JAVA_HOME=/Library/Java/JavaVirtualMachines/jdk-17.jdk/Contents/Home
PATH=\$PATH:\$JAVA_HOME/bin

PROJECT SETUP

Opening the Project

1. Clone the repository:

```
git clone [repository-url]
cd [project-directory]
```

- 2. Open the project in IntelliJ IDEA:
 - a. Go to File > Open
 - b. Navigate to the project directory
 - c. Select pom.xml and open as project

Project Structure

Building and Running

Option 1: Running in IntelliJ IDEA (Recommended)

- 1. Open MonopolyGame.java in IntelliJ IDEA
- 2. Click the green play button () next to the main method OR Right-click anywhere in the file and select 'Run MonopolyGame.main()'



Option 2: Running from Command Line

1. First build the project:

```
mvn clean package

2. Run the game

java -cp target/classes mono.MonopolyGame
```

Running tests

Option 1: Running Tests in IntelliJ IDEA (Recommended)

- 1. Open the test file (MonopolyGameTest.java)
- 2. To run a single test: Click the green play button () next to individual test methods

3. To run all tests: Click the green play button () next to the test class name OR Right-click on the 'test' folder and select 'Run All Tests'



Option 2: Running Tests from Command Line

1. Run all tests

```
mvn test
```

2. Run specific test class:

mvn test -Dtest=MonopolyGameTest

DEBUGGING

Using IntelliJ IDEA Debugger

- 1. Set breakpoints by clicking in the left gutter of the editor
- 2. Run the game in debug mode:
 - a. Right-click MonopolyGame.java
 - b. Select Debug 'MonopolyGame.main()'

Debug Logging

To enable debug logging, add the following VM option:

java -Ddebug=true -cp target/classes mono.MonopolyGame