

Advanced Programming Practices (SOEN 6441)

Summer 2019

Project - Build1

Battleship Game

Coding Standards

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Submitted To:

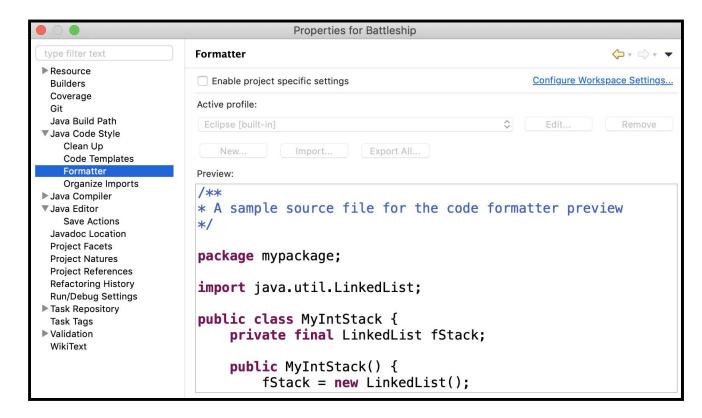
Nagi Basha

• File Structure

- The packages 'Controller' and 'Models' are included inside the 'application' package.
- The 'Controller' package has controller file 'Main.java'.
- The 'Models' package has two models files, 'Battlefield.java' and 'Block.java'.

Code Style :

- Open curly braces written in the same line of the respective code block to reduce the number of lines of code.
- Close curly braces written in the line to overcome the issue of readability.
- Indentation: After every open curly brace, the new code block will start by left one tab space.



Naming Conventions :

- Package Name: All package names starts with uppercase letter and the first letter of each word is in capital letter
- Class name: All class names starts with uppercase letter and first letter each word is in capital letter
- Variable and parameter name: All variable names are in camelcase and starts with its datatype.
- Method name: All method names are in camelcase.

```
public static List<List<Battlefield.Block>> lstAllShips_Player = new ArrayList<>();
public static List<List<Battlefield.Block>> lstAllShips_Computer = new ArrayList<>();
private boolean boolIsGameStart = false;
private Battlefield bfComputer;
private Battlefield bfPlayer;
```

• Comments:

- To fulfill the purpose of readability and creating a javadoc, we have put detailed comments over each and every class, constructor and methods.
- Written comments to each class, constructor and methods to describe which functionality(ies) is included in the class, constructor and methods.
- These comments includes
 - Brief description of the class, constructor and method.
 - The list of parameters and also brief description of those parameters.
 - What the method is returning.
 - Author(s) of the class.

• References:

- https://www.geeksforgeeks.org/java-naming-conventions/
- $\circ \quad \underline{https://github.com/AlmasB/Battleship/tree/master/src/com/almasb/battleship}$
- o https://battleship-game.org/en/
- o https://stackoverflow.com/questions/10872444/mvc-pattern-in-javafx-with-scene-builder
- o https://www.thesprucecrafts.com/the-basic-rules-of-battleship-411069