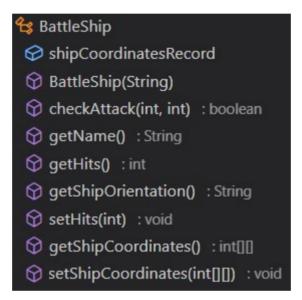
Report

Task

Task 1

Staus: completed

Outlining: create BattleShip.java and extends AbstractBattleShip class. In constructor, use Random object to defind the shiporientation and init other params. Write the member functions which defind in AbstractBattleShip. Finish the checkAttack method. Check all possible situation. Defind a array shipCoordinatesRecord to record the coordinate which has been hit.



Task 2

Staus: completed

Outlining: Create GameGrid.java anad extends AbstarctGameGrid. Create the initializeGrid(). Finish the generateShips(). Finish the placeShip(). Create PlayerGameGrid.java and OpponentGameGrid.java, extends GameGrid. Defind printGrid() in them.



Staus: completed

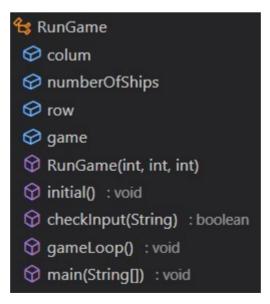
Outlining: Create Game.java and implement GameControls.create player's and opponent's grid and implement getter methods of them. Implement exitGame() method. Implement checkvictory(). Implement playRound() to make robot smart. In this case, oppenent decision depends on the probability which calculate from "X" coordinates. If all coordinates are less than or equal to 0, its decision depends on the probability which calculate from the number of unknown coordinates. Unfortunately, the fact is I will lose to the robot in most cases.



Task 4

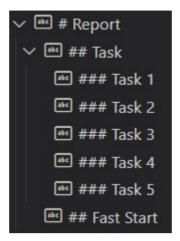
Staus: completed

Outlining: Create RunGame.java and start it by create a Game object. Use params to get the height, hight and the number of ships. Use while loop function to make sure rounds are loop. Use regex ^[0-9]+, [0-9]+\$ to match corret input and use exitGame() function which in game object to check the exit.



Staus: completed

Outlining: Conclude the tasks status and desribe each with a short words.



Fast Start

Switch to the JAVA project root directory assignment

• package the project

mvn package

• run the jar with you params which are **height**, **width** and **number of ships**

```
java -jar .\target\assignment-1.0-SNAPSHOT.jar 5 5 3
```