```
1 package com.example.template;
2
3 public class Base {
4 }
5
```

```
File - D:\Projects\boardGameProject\src\main\java\com\example\template\Player.java
 1 package com.example.template;
 2
 3 import java.util.ArrayList;
 4
 5 public class Player {
        private String name;
        private int amountOfTerritories = 0;
 7
        private ArrayList<Territory>
 8
    allTerritoriesControlled = new ArrayList<>();
 9
        public Player(String name, int
10
    amountOfTerritories, Territory
    startingTerritory) {
11
             this.name = name;
             this.amountOfTerritories =
12
   amountOfTerritories;
             allTerritoriesControlled.add(
13
    startingTerritory);
14
        }
15 }
16
```

```
1 package com.example.template;
 2
 3 import java.util.ArrayList;
 4
 5 public class Territory {
       private String territoryType;
       private int territoryTypeID;
 7
       private Player controllingPlayer;
 8
       private ArrayList<Coordinates>
 9
   allCoordinatesOfTerritory = new ArrayList
   <>();
10
11
       public Territory() {
12
13
       }
14 }
15
```

```
File - D:\Projects\boardGameProject\src\main\java\com\example.template\Coordinates.java

1 package com.example.template;
2
3 public class Coordinates {
4     private int xPos;
5     private int yPos;
6     private boolean isABorderCord = false;
7 }
8
```

```
1 package com.example.template;
 2
 3 import javafx.event.ActionEvent;
 4 import javafx.event.EventHandler;
 5 import javafx.fxml.FXML;
 6 import javafx.scene.control.Button;
7 import javafx.scene.control.Label;
8 import javafx.scene.control.TextArea;
 9 import javafx.scene.control.TextField;
10 import javafx.scene.image.Image;
11 import javafx.scene.image.ImageView;
12 import javafx.scene.layout.GridPane;
13 import javafx.scene.text.Font;
14
15 import javax.swing.JOptionPane;
16 import java.io.FileInputStream;
17 import java.io.FileNotFoundException;
18 import java.io.FileReader;
19 import java.io.PrintWriter;
20 import java.util.ArrayList;
21 import java.util.Objects;
22 import java.util.Scanner;
23
24 public class HelloController {
25
       @FXML
26
       public GridPane mainGridPane;
27
       @FXML
28
       public Button startButton;
29
       @FXML
       public ImageView tempImageView;
30
31
       Button[][] buttonArray = new Button[75][
   125];
32
       public void start() {
33
34
           mainGridPane.setVisible(true);
```

```
35
           startButton.setVisible(false);
           startButton.setDisable(true);
36
37
           try{
38
                FileInputStream input = new
   FileInputStream("src/main/resources/images/
   worldMap.jpq");
39
                tempImageView.setImage(new Image(
   input));
           }catch (FileNotFoundException
40
   variable){
41
                System.out.println("file not
   found");
42
43
           for(int row =0;row<buttonArray.length</pre>
   ;row++) {
                for(int column=0;column<</pre>
44
   buttonArray[0].length;column++) {
                    buttonArray[row][column] =
45
   new Button("");
46
                    buttonArray[row][column].
   setPrefHeight(10);
                    buttonArray[row][column].
47
   setPrefWidth(10);
48
                    Font font = new Font(0);
                    buttonArray[row][column].
49
   setFont(font);
                    buttonArray[row][column].
50
   setStyle("-fx-background-radius: 0px; -fx-
   border-color: LightBlue; -fx-background-color
   : LightBlue;");
51
                    mainGridPane.add(buttonArray[
   row][column],column,row);
52
                }
53
           printWorldBorders();
54
```

```
55
           EventHandler z = new EventHandler<
   ActionEvent>() {
56
                @Override
57
                public void handle(ActionEvent
   event) {
58
                    int row = GridPane.
   qetRowIndex((Button) event.getSource());
59
                    int column = GridPane.
   getColumnIndex((Button) event.getSource());
                    if (!buttonArray[row][column
60
   ].getText().equals("A")) {
61
                        buttonArray[row][column].
   setStyle("-fx-border-color: Blue; -fx-
   background-color: Blue;");
                         buttonArray[row][column].
62
   setText("A");
                        addCoordinatesToTXT(row,
63
   column);
                    }
64
                }
65
66
            };
           for(int row =0;row<buttonArray.length</pre>
67
   ;row++) {
68
                for(int column=0;column<</pre>
   buttonArray[0].length;column++) {
69
                    buttonArray[row][column].
   setOnAction(z);
70
                }
           }
71
       }
72
73
74
       public void printWorldBorders() {
75
       }
76
77
```

```
public void addCoordinatesToTXT(int
78
   rowOfClick, int columnOfClick) {
           String outFile = "src/main/resources
79
   /tempCoordinates.txt";
           try{
80
81
                FileReader reader = new
   FileReader("src/main/resources/
   tempCoordinates.txt");
               Scanner in = new Scanner(reader
82
   );
83
               ArrayList<String> allCords = new
    ArrayList<>();
               while (in.hasNext()) {
84
                    allCords.add(in.nextLine());
85
86
                }
87
                PrintWriter out = new
   PrintWriter(outFile);
               for (int i = 0;i<allCords.size</pre>
88
   ();i++) {
                    out.println(allCords.get(i
89
   ));
               }
90
               out.println(rowOfClick +","+
91
   columnOfClick);
               out.close();
92
93
           }catch (FileNotFoundException
   variable){
               System.out.println("file not
94
   found");
95
       }
96
97 }
```

```
1 package com.example.template;
 2
 3 import javafx.application.Application;
 4 import javafx.fxml.FXMLLoader;
 5 import javafx.scene.Scene;
6 import javafx.stage.Stage;
 7
8 import java.io.IOException;
 9
10 public class HelloApplication extends
   Application {
11
       @Override
       public void start(Stage stage) throws
12
   IOException {
13
           FXMLLoader fxmlLoader = new
   FXMLLoader(HelloApplication.class.getResource
   ("hello-view.fxml"));
           Scene scene = new Scene(fxmlLoader.
14
   load(), 1200, 800);
15
           stage.setTitle("Infrastructure Risk"
   );
           stage.setScene(scene);
16
17
           stage.show();
       }
18
19
20
       public static void main(String[] args) {
           launch();
21
22
       }
23 }
```