10.Prototype program

2-Rain in Moldova

Supervisor:

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Members:

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27.04.2020

27 April 2020

10. Prototype program

10.1 Deployment guide

10.1.1 List of files

File name	Size	Date	Content
Blizzard	2 KB	26.03.2020	Contains Blizzard class with
			its methods and attributes.
Charge	1 KB	08.04.2020	Contains Charge class with its
			methods(overridden) and
			attributes.
DivingSuit	1 KB	26.03.2020	Contains DivingSuit class
			with its methods(overridden)
D 1 '	4.170	26.02.2020	and attributes.
Eskimo	4 KB	26.03.2020	Contains Eskimo class with its
			methods (overridden) and attributes.
Flare	1 KB	08.04.2020	Contains Flare class with its
riale	1 KD	08.04.2020	methods(overridden) and
			attributes.
Food	1 KB	26.03.2020	Contains Food class with its
1000	1 KB	20.03.2020	methods(overridden) and
			attributes.
Game	18 KB	26.03.2020	Contains Game class with its
			methods and attributes.
GameMain	18 KB	26.03.2020	Contains GameMain class
			with its methods and
			attributes. Here you can find
			Main() function.
Gun	1 KB	08.04.2020	Contains Gun class with its
			methods(overridden) and
			attributes.
Iceberg	5 KB	26.03.2020	Contains Iceberg
			class(overridden) with its
T	2 1/D	26.02.2020	methods and attributes.
Inventory	3 KB	26.03.2020	Contains Inventory class with
Itam Daga	2 KD	26.02.2020	its methods and attributes.
ItemBase	2 KB	26.03.2020	Contains abstract ItemBase class with its methods and
			attributes.
Map	8 KB	26.03.2020	Contains Map class with its
141ap	OKD	20.03.2020	methods and attributes.
PlayerBase	15 KB	26.03.2020	Contains abstract PlayerBase
		20.02.2020	class with its methods and
			attributes.
PolarExplorer	3 KB	26.03.2020	Contains PolarExplorer class
1			with its methods(overridden)
			and attributes.
Rope	1 KB	26.03.2020	Contains Rope class with its

			methods(overridden) and attributes.
Shovel	1 KB	26.03.2020	Contains Shovel class with its methods(overridden) and attributes.
BlizzardTest	3 KB	30.04.2020	Contains the tests for the Blizzard class functionality
GameTest	2 KB	30.04.2020	Contains the tests for the GameTest class functionality
PlayerBaseTest	11 KB	30.04.2020	Contains the tests for the PlayerBaseTest class functionality

10.1.2 Compilation

The main requirements for the environment for the successful compilation are:

- Any operating system: Windows, OSX, Linux.
- IntelliJ IDEA
- JDK 11 (Correto 11)

10.1.3 Run

In order to be able to run the executable program:

- Set the configuration: Main method in GameMain
- Class path of module: Icefield.desktop.main

There are 2 options to start the game after you pressed: Run 'GameMain'. The first one is to see some information in the terminal and to interact with the console. User should specify the commands and the program will be running following this commands. The second option is to read the input from the file. All the commands and workflow of the game is specified in there. In each case user will see the output of the actions.

In order to be able to run the tests the user should go to the test folder under the com.rim.Icefield. There are 3 test files. By right click on the file user can specify if he wants to run the test or if he wants to run it with the coverage.

10.2 Test protocols

Overall Coverage Summary

Package	Class, %	Method, %	Line, %
all classes	83,3% (15/ 18)	50,4% (58/ 115)	33,1% (267/ 806)

Coverage Breakdown

Package 🔻	Class, %	Method, %	Line, %
com.rim.IceField.desktop	0% (0/1)	0% (0/ 2)	0% (0/4)
com.rim.IceField	88,2% (15/ 17)	51,3% (58/ 113)	33,3% (267/ 802)

27 April 2020

10.2.1 Test-case1: Creating a Player

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.2 Test-case2: Stepping on an unstable iceberg

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.3 Test-case3: Stepping on a hole

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.4 Test-case4: Edge of the map

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.5 Test-case5: Player in the water without a diving suit

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.6 Test-case6: Player in the water with a diving suit

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.7 Test-case7: Save the character

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.8 Test-case8: Removing of snow by hand

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.9 Test-case9: Removing of snow by shovel

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.10 Test-case10: Blizzard blowing

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.11 Test-case11: Picking the item

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.12 Test-case12: Impossible to pick the item

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.13 Test-case13: Impossible to pick the item case 2

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.14 Test-case14: Eat food

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.15 Test-case15: Polar explorer skill use

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.16 Test-case16: Eskimo skill use

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.17 Test-case17: Heat level reaches 0

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.18 Test-case18: Win scenario of the game

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.2.19 Test-case19: Lose scenario of the game because of Blizzard

Name of the tester	Anna Hramova
Date & time of test	27.04.2020 9:00

10.3 Evaluation

Name of the team member	Participation (%)
Alghaith Ahmad	20
Andreea Daniela Moraru	20
Anna Hramova	20
Danil Stefaniuc	20
Dinu Botan	20

10. 4 Protocol

This iteration was proceeding in a real agile way considering meetings, Kanban board used and communication between developers. Protocol is a more abstract view on our project workflow, but the real one you can find on github. We created tasks (issues), assigned them and could see at which stage is everyone. Every new error found by testing or just by code review was specified there.

The link: https://github.com/AirinB/IceField/projects/2

Start (date &	Duration	Performer(s)	Activity description
time)	(hours)	name	
21.04.2020	2	Stefaniuc,	Meeting: discussion of the result and
16.00		Botan,	inaccuracies of the last week's job.
		Alghaith,	Discussion of the prototype program,
		Moraru,	tasks assigning. The result is: Hramova is
		Hramova	responsible for the tests cases, Stefaniuc is

			responsible for the game logic and some methods, Moraru is responsible for the modifications in all classes regarding the methods lofgic, Botanu is respondible for the cration of inputs and outputs used in the game, Alghaith is respondible for the map creation and displaying in the console.
23.04.2020 16.00	3	Stefaniuc	Resolving the issues with some methods of the methods of PlayerBase, Game and other classes.
23.04.2020 16.00	3	Moraru	Resolving the issues with some methods of the methods of PlayerBase, Game and other classes.
24.04.2020 16.00	1	Hramova	Several tests creation and finding minor errors.
25.04.2020 10.00	2	Stefaniuc, Botan, Alghaith, Moraru,	Meeting: Discussion of the tasks implementing and their future updating.
25.04.2020 13.00	3	Stefaniuc	Updating of the methods implemented.
25.04.2020 14.00	3	Botan	Proceeding with inputs and outputs.
25.04.2020 14.00	5	Hramova	Creation of test cases.
26.04.2020 16.00	3	Moraru	Updating of the methods implemented.
26.04.2020 12.00	6	Alghaith	Creation of map and it's view in the console.
27.04.2020 9.00	4	Stefaniuc, Botan, Alghaith, Moraru, Hramova	Meeting: Review of the new changes. Discussion of the test-cases. Applying minor modifications to the methods. Filling out the word document: List of files, Run, Evaluation, Protocol sections. Creation of Javadoc comments.
27.04.2020 13.00	1	Stefaniuc, Botan, Alghaith, Moraru, Hramova	Meeting: Final review of the Prototype program delivered.