

A thick dark grey vertical bar runs down the left side of the page. An orange arrow-shaped banner points to the right from this bar, containing the date. Below the banner, several thin, curved lines in black and grey sweep upwards from the bottom left corner.

24 Dec 2017

Software Maintenance Coursework 2 Report

Diamond Hunter (Christmas Edition)

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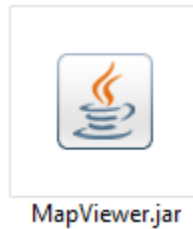
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Introduction

The aim of this coursework was to create a viewer for the map of the Diamond Hunter game that allows the user to change the position of the axe and the boat. The new positions of the items should be saved and loaded into the game. Also, GitHub was expected to be used effectively.

MapView



In the end, 2 jar files were compiled. The first one, MapViewer.jar, is the standalone map viewer application which allows the user to modify the positions of the items and save them or reset them to default. As we are close to Christmas, the application has been designed to reflect Christmas and its celebrations!

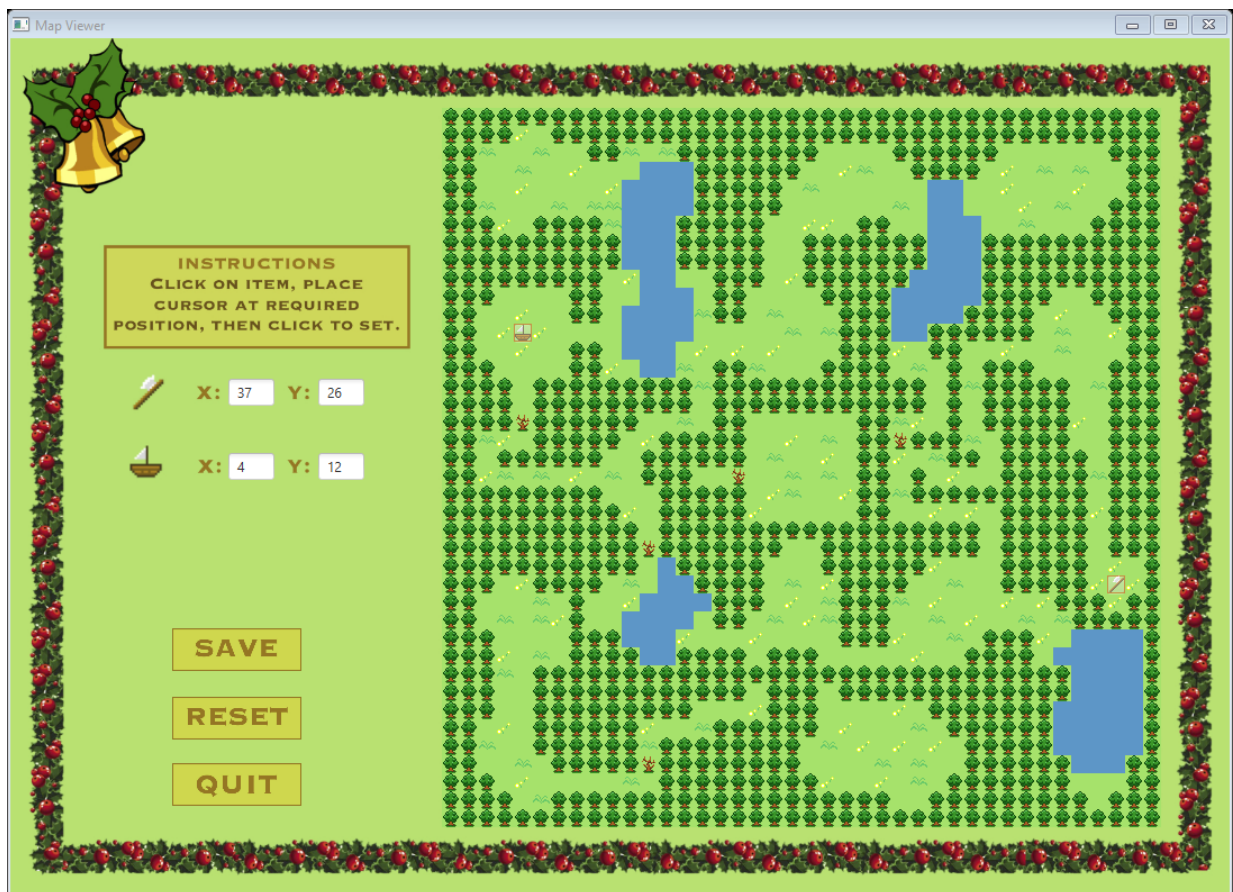


Figure 1 - MapViewer.jar

Changing position of an item

To change the position of an item, click on it and then click on the desired new position. The X and Y coordinate values will change accordingly. You can also change an item's position by modifying its X and Y coordinates in the text boxes. The item will appear immediately at the coordinates entered.



Figure 2 - Initial Positions



Figure 3 - New Positions

Saving new positions

To save the new position(s) of the items, click on SAVE button. The coordinates of the items are then saved to a file “coordinates.pskm”. Every time the Map Viewer is launched, the coordinates from that file is loaded. If the file is not found, then the default positions are loaded.

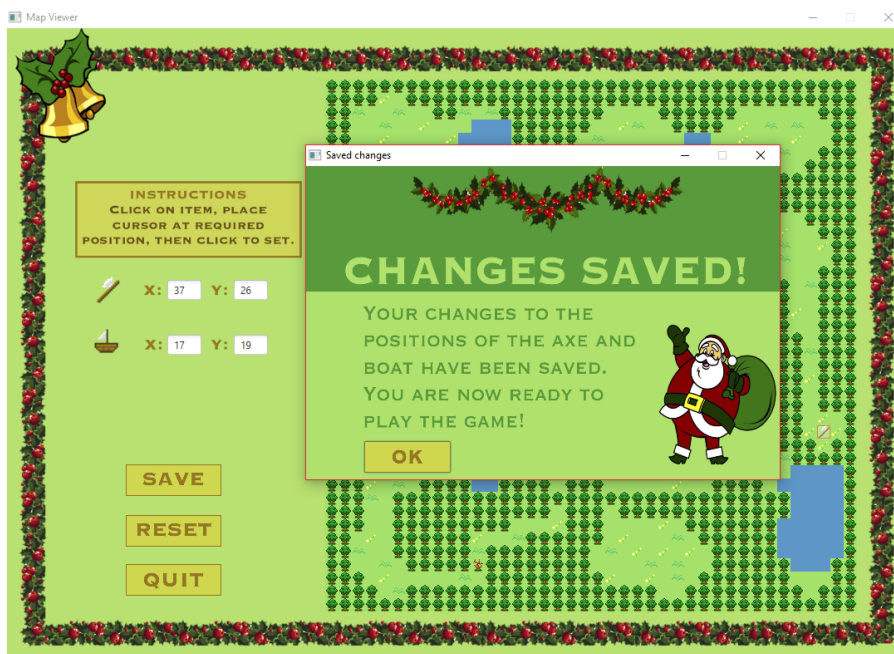


Figure 4 - Changes Saved



coordinates.pskm

Placing an item on an invalid position

Placing an item on, for example, a tree, will display a no-entry sign.



Figure 5 - Invalid Positions

Entering coordinates that are less than 0 or larger than 40 will place the items on the border (which consists of trees) and will thus display a no-entry sign.

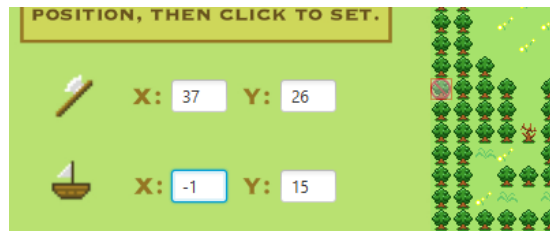


Figure 6 - Invalid Coordinates

If one or both items are placed at an invalid position, the user will not be able to save the coordinates. The following warning will be shown.



Figure 7 – Clicking on SAVE Button when Invalid Positions entered

Reset to default positions

If the user wishes to reset the items back to their original positions, click on the RESET button.



Figure 8 - Initial Positions



Figure 9 - Clicking on RESET Button

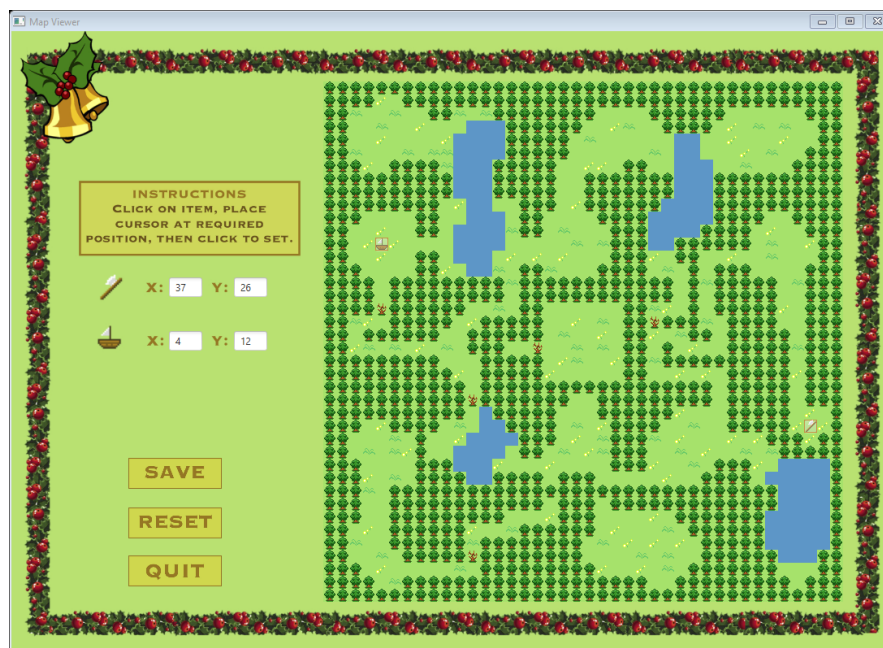


Figure 10 - New Positions After Reset

Quitting

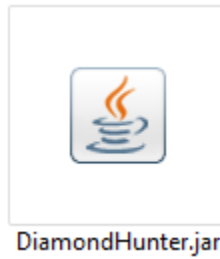
To quit the map viewer, click on the QUIT button. Note that changes made will be discarded if they have not been saved.



Figure 11 - Clicking on QUIT Button

DiamondHunter

The second jar file, DiamondHunter.jar, is the actual game.



Its menu has been slightly customized for Christmas and modified to add the option EDIT MAP.



Figure 12 - Diamond Hunter Menu

Opening the Map Viewer

Select the option EDIT MAP to open the Map Viewer.

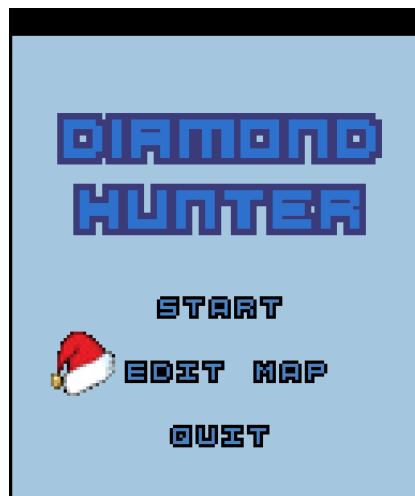


Figure 13 - Selecting EDIT MAP

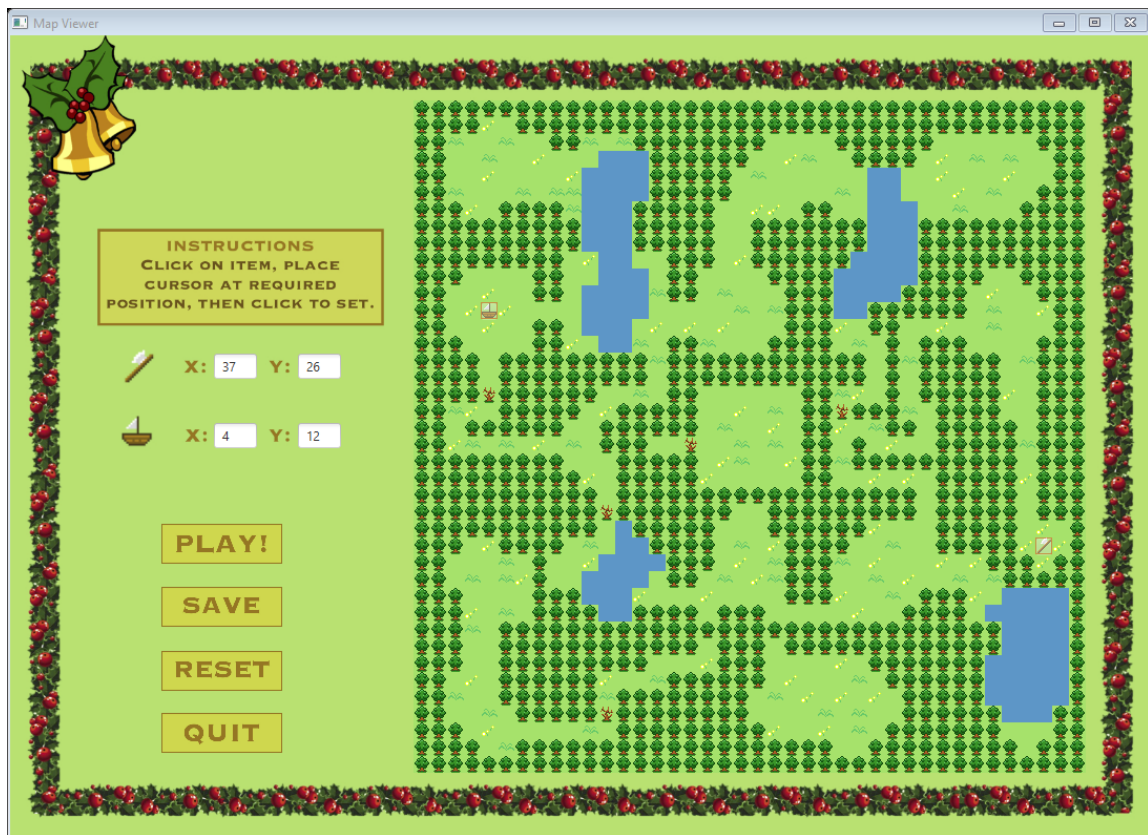


Figure 14 - Map Viewer is opened

The only difference between the stand-alone map viewer and the one in the DiamondHunter.jar application is the PLAY! button. This means that the player can start the game from the map viewer.

Playing the game

After making any desired changes and saving them, click on the PLAY! button. The game should load the new coordinates from the “coordinates.pskm” file and start. If the file is not found, the default positions are loaded.



Figure 15 - Clicking on PLAY! Button

Quitting

If the user clicks on the QUIT button on the Map Viewer, a confirmation box appears, informing that the game also will be closed.



Figure 16 - Clicking on QUIT Button

GitHub

The GitHub Desktop app was downloaded to synchronize all our works by linking it to our repository <https://github.com/mayur2797/SWMCW2>. GitHub was of great assistance to help us track changes made by the team members and merge our work.