

MapAssignment

@Eoin Ocathasaigh

@Java version 17

## Description

This is a console or command line-based program that creates a HashMap that reads in words and their respective embeddings from a user specified text file. Furthermore, the program searches for similarities in the words based on a user's input and prints those similarities and their respective scores to a user specified output file.

## To Run

Given the file has been unzipped properly.

Navigate to the file in the cmd & run the following to start the application:

```
java -cp ../dsa.jar ie.atu.sw.Runner
```

Navigate through the programs options to observe its functionality.

## Features

- Ability to specify the file being used to retrieve the word embeddings from. Program will search for them in parent directories.
- Search for a words existence in the map, if the word isn't present you will be directed back to the menu towards an option that will allow you to add a word to the file along with its embeddings
- Add an additional word to the file and in turn the map, as previously stated the user will have the ability to add the word on top of its 50 embeddings to the map. Afterwards the program will reload to repopulate the map with the words the user wants to use.
- Allow user to specify not only the output file the words and their similarities are being printed to but also allow them to specify exactly how many outputs they would like.