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UNIVERSITY OF MUMBAI

Academic Year 2021-2022

SBL-Java Mini-Project

Lexlore



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Course Code: CSL304

Problem Definition

- This is a sort of throwback to the old childhood classic game known as "Word Search". With Java we bring the nostalgia into the digital word.
- Our project name Lexlore, is clever hybrid of the Lex meaning words And Explore which comes with searching for them.

Hardware

- **Processor: 1.5GHz or faster**
- **Memory: 4GB (4,096MB) RAM**
- **Free HDD space: 3GB**

Software

- **OS: 64-bit Windows 7 or later or OS X 10.11 or later**
- **Programming language: Java 16.0.2 or High**
- **IDE: Visual Studio Code**



Functions/Libraries/Packages

- **Package: javax.Swing**
 - **setVisible()**
 - **setFocusPainted()**
 - **setBounds()**
 - **addActionListener()**
 - **Containers Like JFrame and JPanel**
 - **Elements like JButton, JLabel, JTextfield**
 - **LayoutManagers to use the GridLayout and BorderLayout**
- **Library: File and FileWriter**
 - **File allows us to read the text files which are generated as the user adds words**
 - **FileWriter writes those files**



Algorithm

- Take a title and 10 words from the user from a JTextField.
- These words are then stored in a Textfile with the Filename as the title entered in the previous step.
- When you click the "Play" Button our program reads the contents of the text file from the previous step.
- This step makes it all work. These words are then added onto the GridLayout of Buttons using the Random class.
- The player interacts with the grid with a mouse click as he/she finds the words to mark them.

Project Snapshots

B	J	A	V	A	E	O	P	C	L
R	D	S	W	I	F	T	O	M	T
P	P	H	P	R	U	S	T	R	C
E	B	P	U	D	X	Y	Z	U	S
R	D	F	B	J	M	G	O	A	H
L	U	U	U	S	C	C	P	L	A
E	O	I	F	D	P	U	E	R	R
E	W	Z	C	N	P	Y	Q	K	P
F	S	K	X	M	R	U	B	Y	H
P	M	C	P	Q	T	V	Z	I	F

PHP

CPL

CPP

SWIFT

CSHARP

RUBY

PERL

JAVA

JS

RUST

Exit Game

References

- <https://www.javatpoint.com/java-swing>
- <https://www.javatpoint.com/java-filewriter-class>
- <https://www.google.com/amp/s/www.geeksforgeeks.org/java-swing-jpanel-with-examples/amp/s>



Thank You!

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