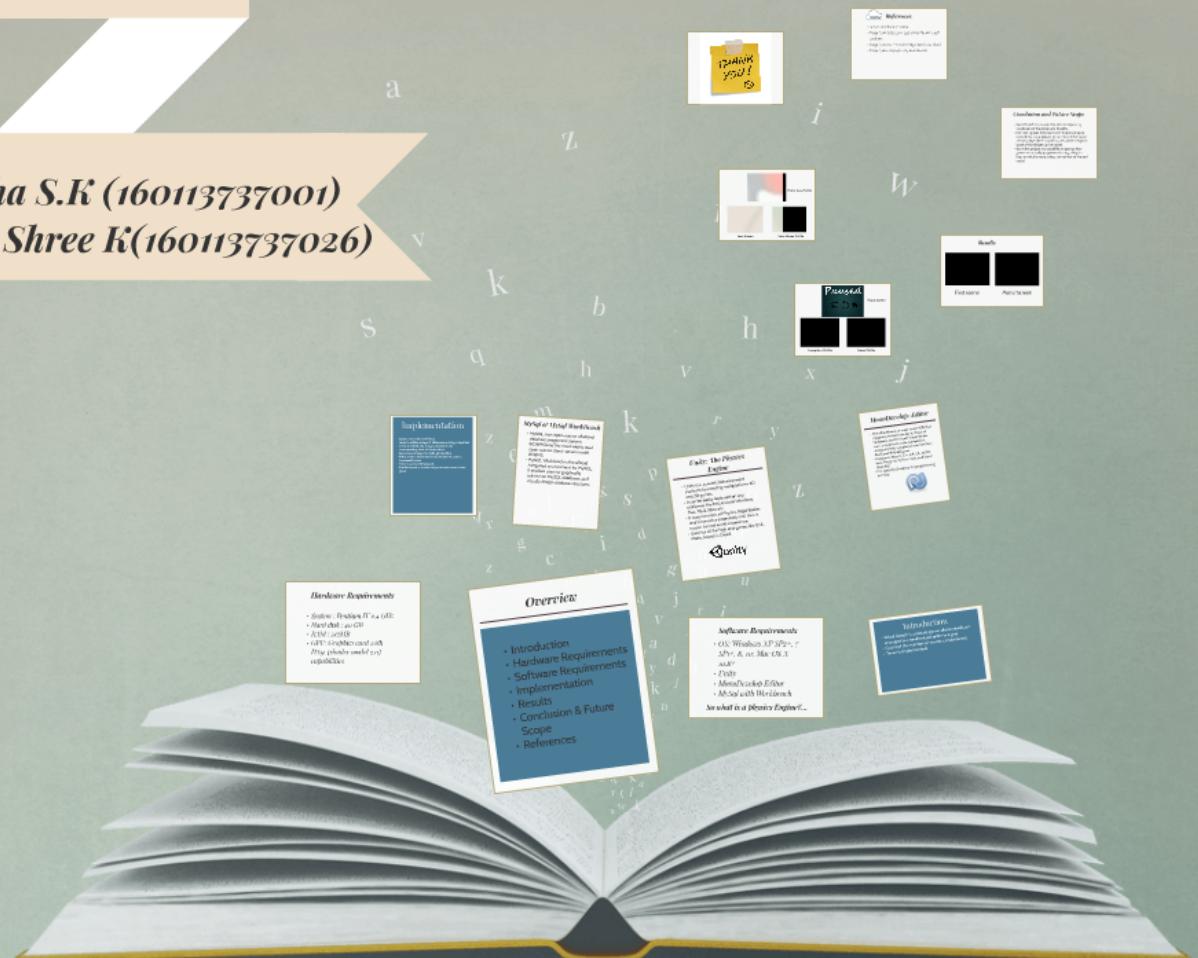


Word Search Using Unity

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Search Using Unity

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Overview

- Introduction
- Hardware Requirements
- Software Requirements
- Implementation
- Results
- Conclusion & Future Scope
- References

Introduction

- Word Search is a puzzle game where words are arranged in a randomized order in a grid.
- Count of the number of words is maintained.
- Timer is implemented.

Hardware Requirements

- *System : Pentium IV 2.4 GHz*
- *Hard disk : 40 GB*
- *RAM : 512MB*
- *GPU: Graphics card with DX9. (shader model 2.0) capabilities*

Software Requirements

- OS: *Windows XP SP2+, 7 SP1+, 8, 10; Mac OS X 10.8+*
- *Unity*
- *MonoDevelop Editor*
- *MySql with Workbench*

So what is a physics Engine?...

Unity: The Physics Engine

- Unity is a powerful development platform for creating multiplatform 3D and 2D games.
- It can be easily deployed on any platforms like iOS, Android, Windows, Mac, PS 3, Xbox etc.
- It uses concepts of Physics, Rigid Bodies and Kinematics extensively and thus is reason for real world experience.
- Used for all the high end games like GTA, Mario, Assassin's Creed.



MonoDevelop: Editor

- MonoDevelop is an open source IDE that integrates features similar to those of NetBeans and Microsoft Visual Studio, such as automatic code completion, source control, a graphical user interface (GUI) and Web designer.
- It supports Boo, C, C++, C#, CIL, D, F#, Java, Oxygene, Python, Vala, and Visual Basic.NET.
- It is specially Designed for programming in Unity.



MySql & MySql WorkBench

- MySQL is an open-source relational database management system (RDBMS); and the most widely used open-source client-server model RDBMS.
- MySQL Workbench is the official integrated environment for MySQL. It enables users to graphically administer MySQL databases and visually design database structures.

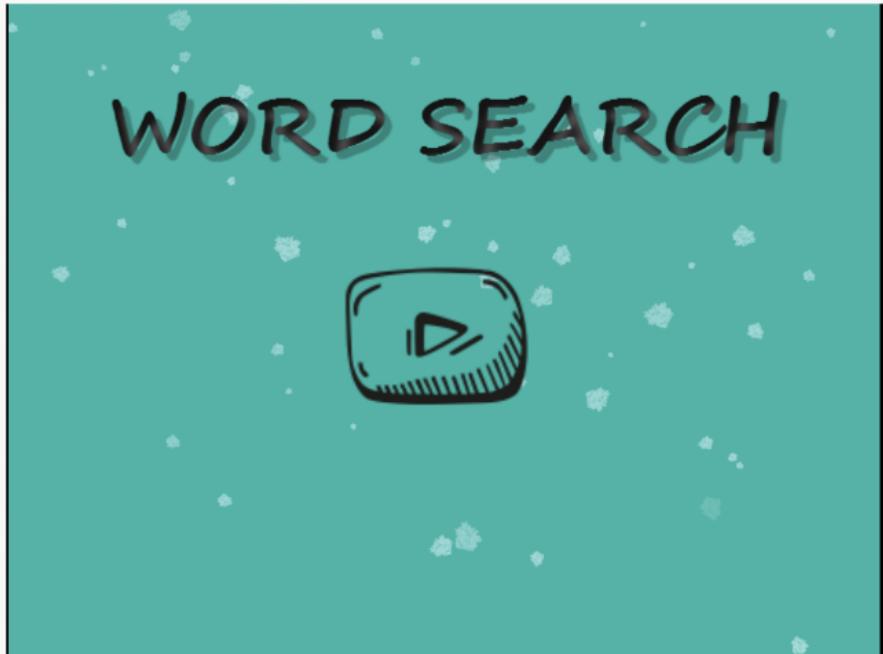


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Implementation

- Scenes are made and linked.
- Script is written using C#. Whenever a string is inputted in the text field, the string is checked in the corresponding table of the database.
- Letters are arranged to make grid prefabs.
- If the string is found and is not already hit, score is increased by one.
- Timer is set to 100 seconds.
- Facility to pause, restart and go to main menu is also given.

Results

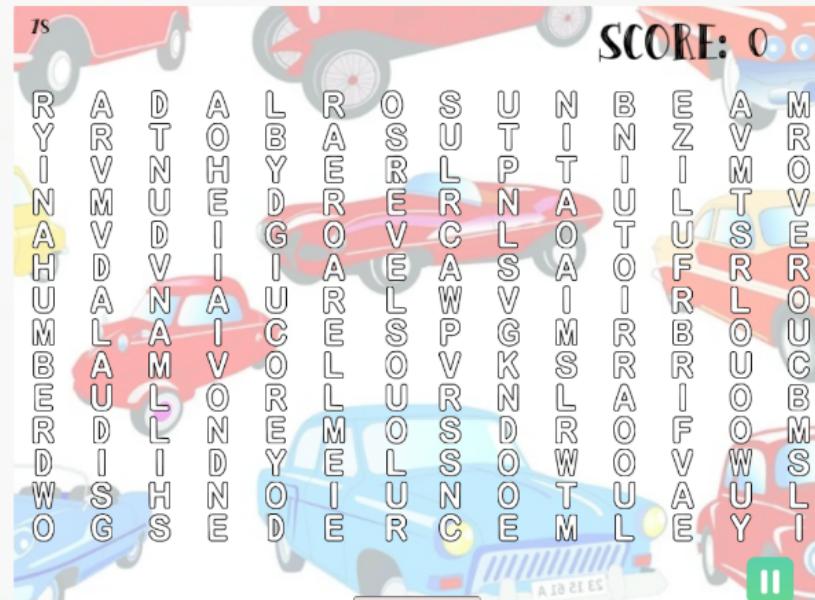


First scene



Menu Screen

Motor Cars Puzzle



Wanna try Again?

Score: 0



Lose Screen

Score: 0



Gem Stones Puzzle



Pause Screen

Score: 0

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

Score: 0

Guess... II

Computers Puzzle

Score: 0

T	Y	E	L	L	O	N	M	A	R	G	R	I	T	R	Y	N	M	T	E	D	B	L	A
Y	E	L	L	O	N	M	A	R	G	R	I	T	R	Y	N	M	T	E	D	B	L	A	O
E	L	L	O	N	M	A	R	G	R	I	T	R	Y	N	M	T	E	D	B	L	A	O	E
L	O	N	M	A	R	G	R	I	T	R	Y	N	M	T	E	D	B	L	A	O	E	U	
O	N	M	A	R	G	R	I	T	R	Y	N	M	T	E	D	B	L	A	O	E	U	O	
N	M	A	R	G	R	I	T	R	Y	N	M	T	E	D	B	L	A	O	E	U	O	E	
M	A	R	G	R	I	T	R	Y	N	M	T	E	D	B	L	A	O	E	U	O	E	U	
A	R	G	R	I	T	R	Y	N	M	T	E	D	B	L	A	O	E	U	O	E	U	O	
R	G	I	T	R	Y	N	M	T	E	D	B	L	A	O	E	U	O	E	U	O	E	U	
G	I	T	R	Y	N	M	T	E	D	B	L	A	O	E	U	O	E	U	O	E	U	O	
I	T	R	Y	N	M	T	E	D	B	L	A	O	E	U	O	E	U	O	E	U	O	O	
R	Y	N	M	T	E	D	B	L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	
Y	N	M	T	E	D	B	L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	O	
N	M	T	E	D	B	L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	O	O	
M	T	E	D	B	L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	
T	E	D	B	L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	
E	D	B	L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	O	
D	B	L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	
B	L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	
L	A	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	O	
A	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	O	O	
O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	O	O	O	
E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	O	O	O	O	
U	O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	O	O	O	O	O	
O	E	U	O	E	U	O	E	U	O	E	U	O	E	U	O	O	O	O	O	O	O	O	
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

Score: 0

Guess... II

Colors Puzzle

Conclusion and Future Scope

- Word Search is a puzzle that aims at improving vocabulary of the player and his skills.
- Connecting SQL database to Unity opens it up to expand into a multiplayer game where information of each player like his name, scores, and the highest score of his till date can be stored.
- So, in this project, we would like to portray how games are actually programmed using a Physics Engine which is more or less a simulation of the real world.



References

- www.wordsearch.com
- <http://unity3dcom/get-unity/download/archive>
- <http://www.monodevelop.com/download>
- <http://dev.mysql.com/downloads>

THANK
you!



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