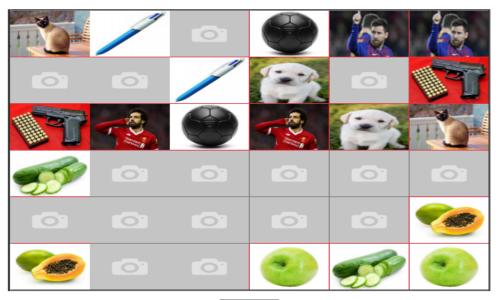
Memory Game





Size OF Grid	
6*6	•
time	
5 minute	•
Apply	

score: 20



SOLVE

Time :1 : 39 Remain :3 : 21

Design:

Data structure

array:

1-mainArr: which contains all cells in grid (contains all of objects which cantain images)

- 2-images:which contain path to each imgae
- 3- tempArray: it contains cells for one row only and it is used to built mainArr

object:

1-mainObject: (size n*m /2) which contains all information about each image and it is used to ditrbute images randamly all over the grid

2-OB: which contain the reference number of image and the image it'self and it is used to built tempArray

3-tO: it contains a- (item -- which means the number of images connected to this object)

b- (full -- defult is false but it wii be true when the item is 2)

c - (num-- reference for number of image)

and it is used to build mainObject

Function:

1-addEventListener:this is a built-in function in javascript used in

- 1- button "Apply"
- 2- each single cell in grid
- 3- button "solve"
- 2-win(): it make h1 "Well done Apeer" and play sounds
- 3- sleep(time): which wait specific time and it used after choseing two no-match photo to

wait 1 second then they turned over

4- setInterval(function(),time): which change the timer every second

User Manual:

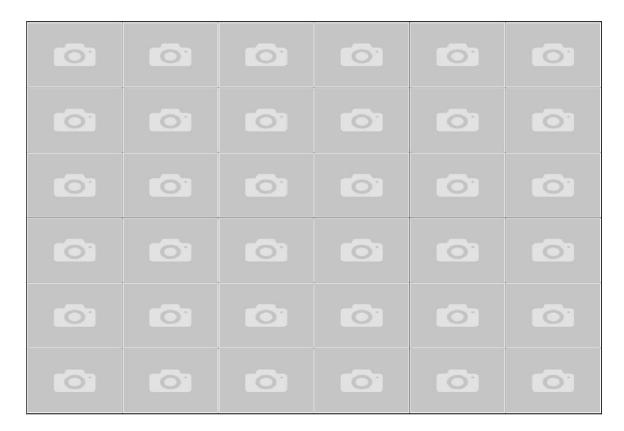


starting the game ,user will find box which consist of two lists and button "Apply

- first list to determine the size of grid and there are 11 diffrenet sizes
 - (6*6 6*7 6*8 -6*9 6*10 -7*8 7*10 8*9 8*10 9*10 10*10)
- second list to determine time and there are 5 option

(without time - 5 minute - 10 minute - 15 minute -20 minute)

- then press on the button "apply " to make the grid
- -then the grid apeers

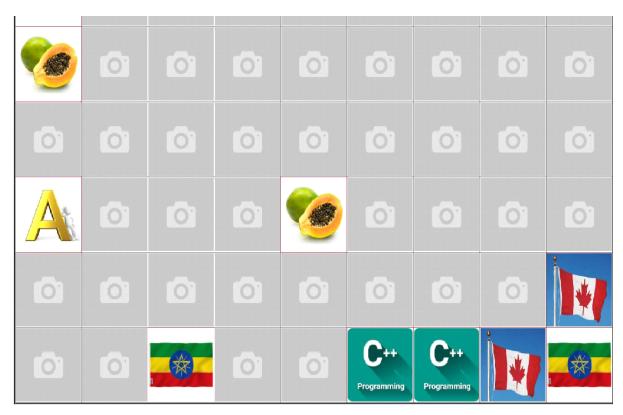


pressing on any of the cells the image will apeer and the press on the second cell , if both of image are the same it will still apeer and the score will increase by 2 , else the two images will turned over in 1 second

- player will win if he finds all pairs , lose when the time ends (if he choose the option "without time " the game will continue to infinity)
- -To play again (or start anther game even is the first doesn't finish yet) just determine the size and the time then press apply

Exmple For The Game

Finding pairs



SOLVE

Time :2 : 24 Remain :12 : 36

pressing on button solve (all pairs appear and the time stop)



After finding all pairs

WELL DONE!!!!

score: 36



TWO TIMER

Time :1 : 5 Remain :3 : 55

if time finishes all images will apears



SOLVE

Time :5 : 0 Remain :0 : 0

Extra

- 1- playing sounds (using library HOWL)every time choosing cells and other sound for finding pairs and other sound when the player wins
- 2- using Bootstrab 4 (beside using css) to Design the site
- 3- dynamic size which allows 11 Different sizes
- 4-Descending time and the game is off if this time finishes