

404 MEMORY NOT FOUND

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WHAT IS 404 MEMORY NOT FOUND?



3 DIMENSIONAL



FIRST PERSON



CLOSED WORLD



PUZZLE

STORY OF THE GAME



404 Memory Not Found takes place in Hacettepe University Computer Engineering Department.



The player is stuck inside the building and they have lost their memories.



In order to regain their memories and to get out of the building they have to collect certain objects.





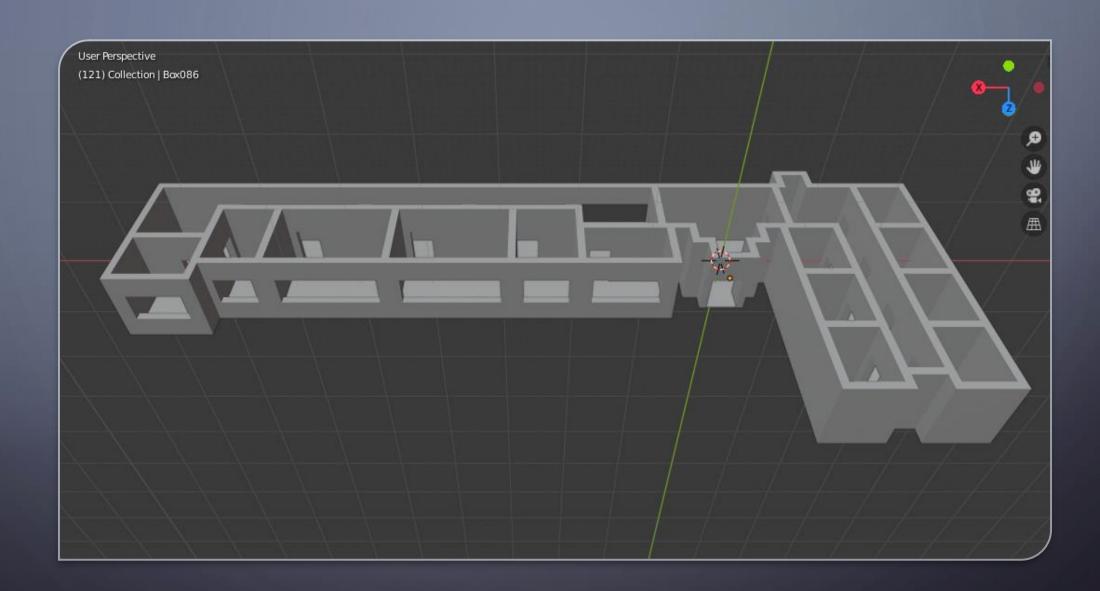
To move forward in the game, the player has to collect the memory items.

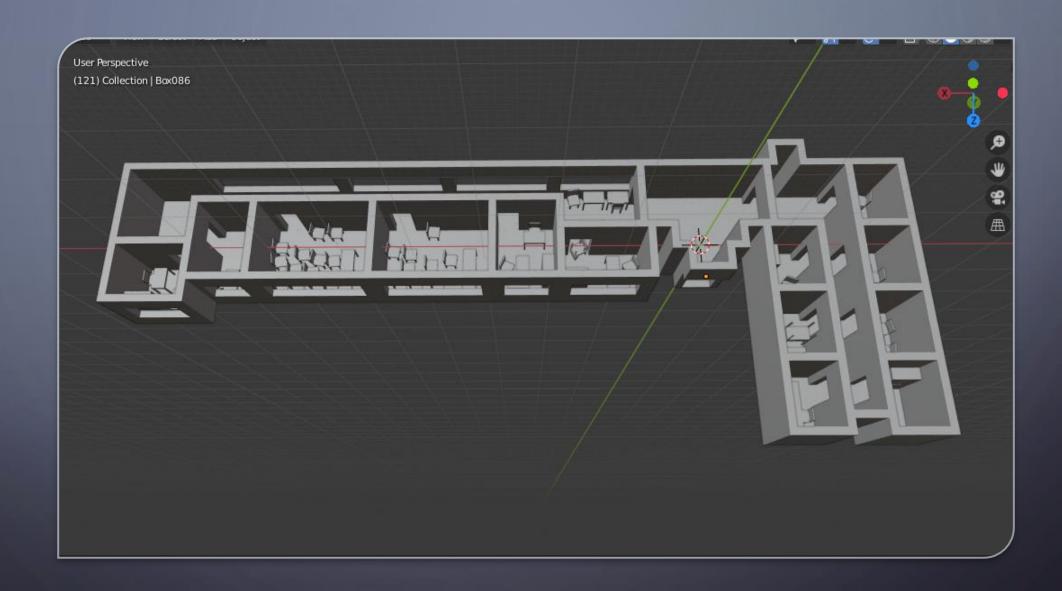


After each item, the building opens up another part of the building.

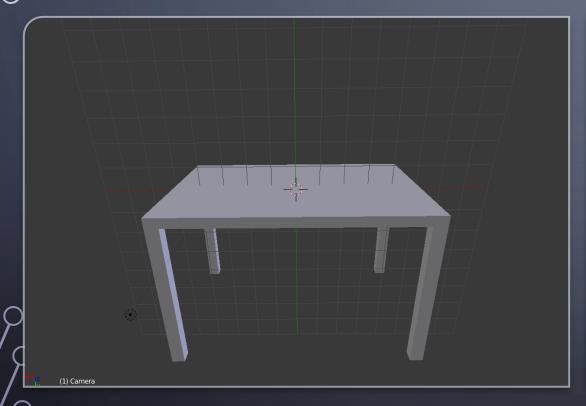
MAP AND OBJECTS

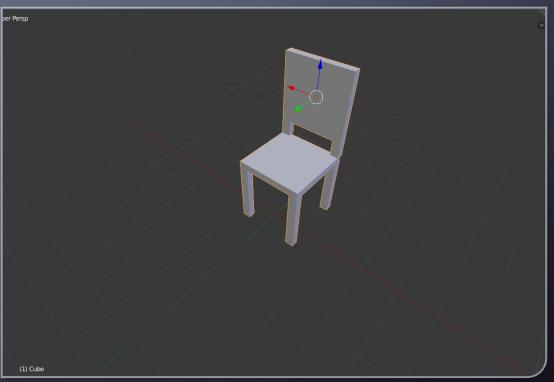
- We designed the map of the building based on our department's first floor.
- The map is designed with 3D MAX program.
- The other objects were created with Blender program.
- To convert the object files into .smf files 3D Object Converter was used.
- There is a hidden easter egg object in the game.

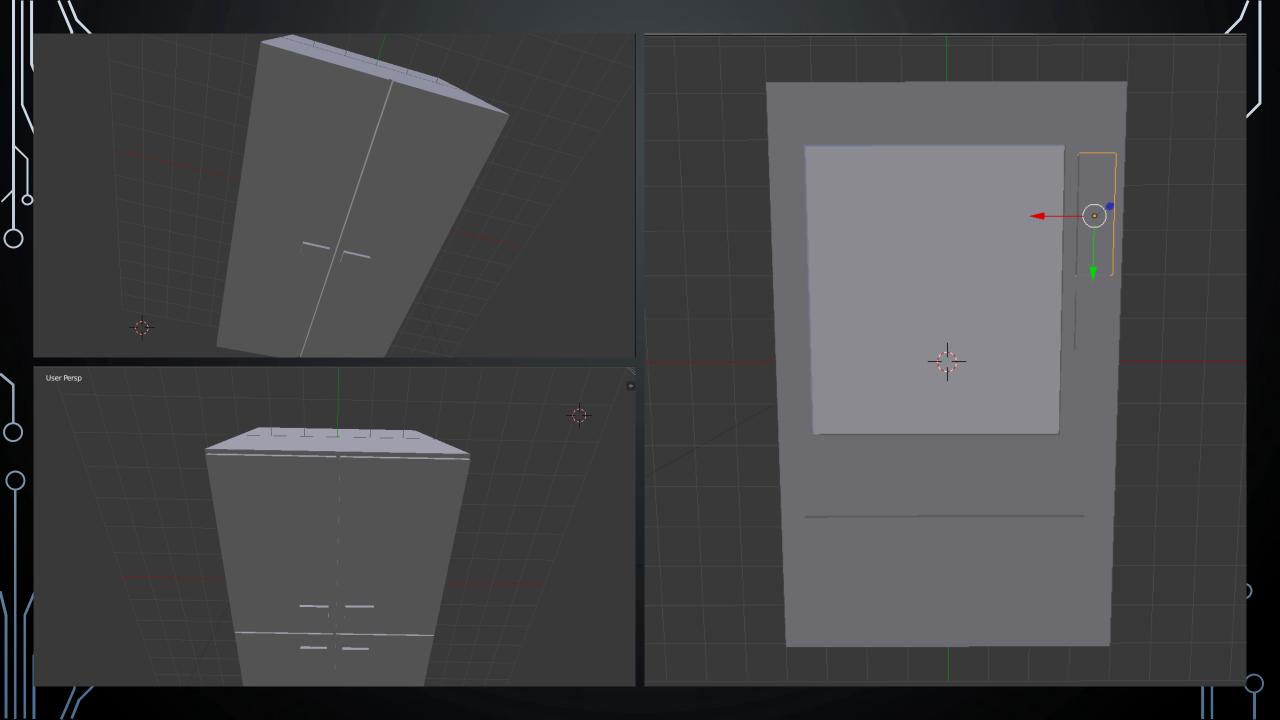




MOVABLE OBJECTS

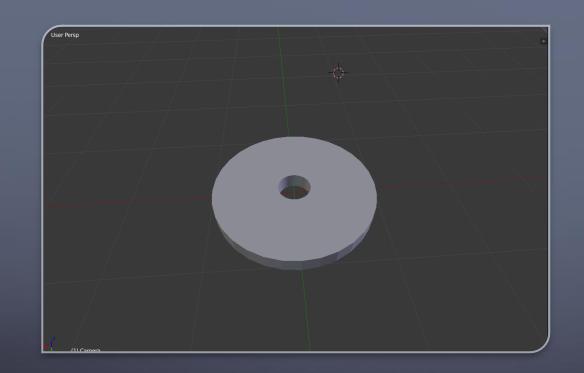


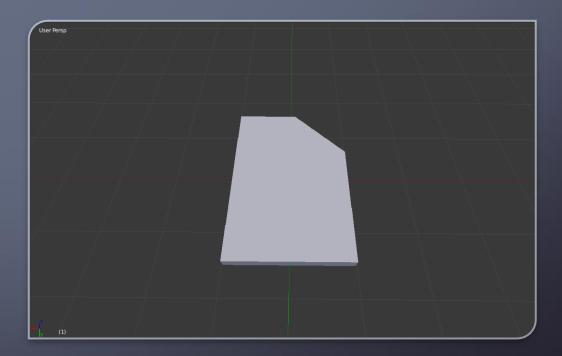




COLLECTIBLE ITEMS







GAME MECHANISM



CAMERA



LIGHT



OBJECT INTERACTIONS

CAMERA



404 Memory Not Found is designed as a 'first person view' game.



To move the character on the XZ axis we use WASD buttons. Shift key changes the speed of the player. Also we use the mouse input to change the camera's angle. We learned about the Mouse input from assignment 4 and 5.

LIGHT



To hold the lamp we use F button and this button also teleports the light into our hand.



While the button is pressed if we push down on + and – keys then the light's intensity changes accordingly.

OBJECT INTERACTIONS



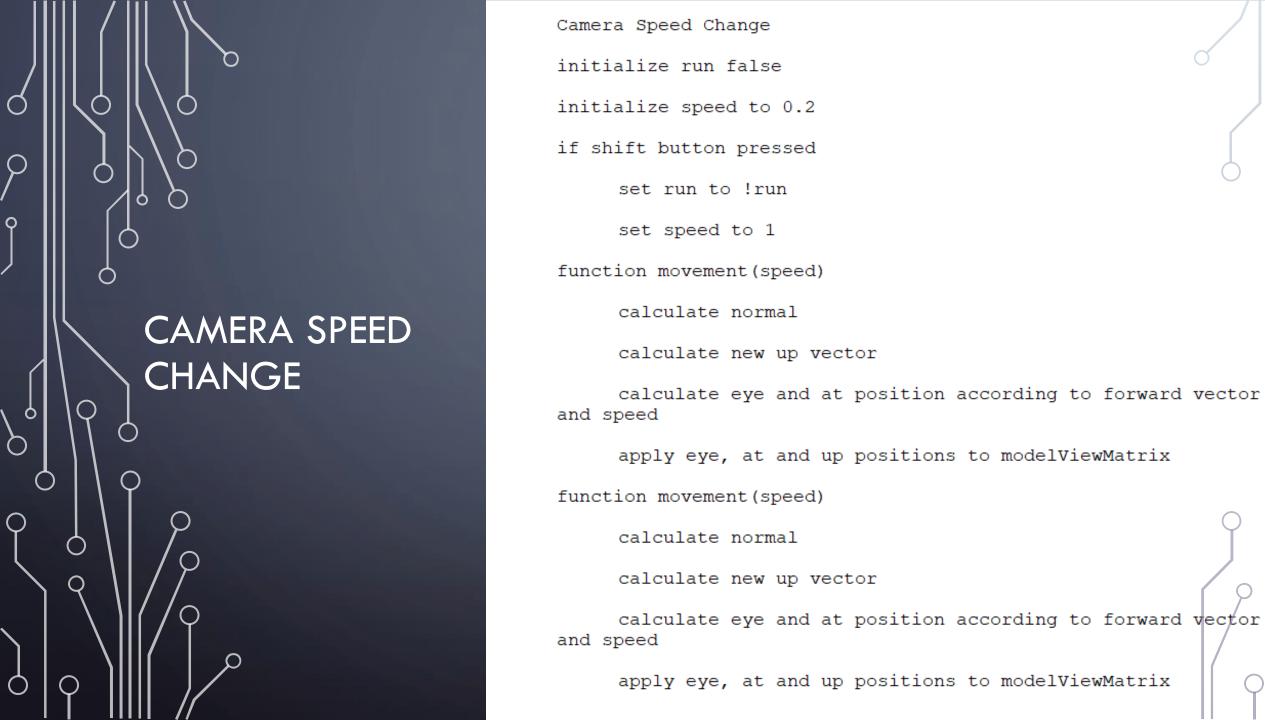
To interract with the objects, after geting close to the item E button is used. After pressing the E button, with the left and right arrow keys object can be rotated.



Collectible items always rotate around itselfs and when the player gets on the same coordinate as the item then object is collected and the game opens up a new part of the map.



Object Picking initialize holditem false if E button pressed if in the range of chair set holditem to !holditem set chair's coordinates final position calculated in render else if in the range of vending machine set holditem to !holditem set vending machine's coordinates final position calculated in render else if in the range of table set holditem to !holditem set table's coordinates final position calculated in render else if in the range of cabinet set holditem to !holditem set cabinet's coordinates final position calculated in render



SOME EXTRA **FEATURES**



Background music



Sound effects



Adding texture to the objects with webgl



The game ends in 10 minutes. If the player can't get out in the time frame, game finishes and closes itself.

REFERENCES AND LIBRARIES USED

- Jquery library for reading object model files.
- Angel's MV is used to implement the camera.
- http://learnwebgl.brown37.net/07 cameras/camera linear motion.html was used to help with the camera movement as well.