Juliana Caldeira Thome 420-JV8-AS C1_GAME ENGINE I

Cooking with Grandma
Final Assignment of Game Engine

Presented to Ms. Marc-André Larouche

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Table of Contents

U	ser Manual:	3
	Rules to Win:	3
	Default Controls:	3
U	ser Stories	3
	User Story 1	3
	User Story 2	3
	User Story 3	4
	User Story 4	4
	User Story 5	4
	User Story 6	5
	User Story 7	5
	User Story 8	5
	User Story 9	5
	User Story 10	6
В	ibliography	6
	Unity Packages:	6
	Links for Music in the Game:	7
	Script:	7
	Learning sources:	8

User Manual:

Rules to Win:

The player must collect 25 flowers, 3 liters of milk, 15 mushrooms, and one egg. In addition, it must be done in less than 5 min. Otherwise, the player will lose. Besides, in order for the player to win, the player must collect enough flowers and mushrooms to sell and get enough coins to buy the 3 liters of milk.

Default Controls:

Left-Click mouse → Shoot the Enemy (This option is only available when the enemy is trigger, which is trigger when the player collects an egg).

- K → Opens and closes General actions.
- G → Opens and closes Grandma Notes (game story).
- I → Opens and closes the inventory.
- E → Opens and closes conversations. Also, pick items when it is pressed on pickable objects.
- ESC → Opens and closes Pause Menu.

User Stories

User Story 1

As a player, I want a terrain with space to constrain. So, I can know where I can play.

- [x] Create the terrain.
- [x] Create the script avoid water.

User Story 2

As a player, I want to be able to pick some flowers and eggs. So, I can fulfill the game requirements that allow me to win.

- [x] Add the flowers that can be picked from the terrain.
- [x] Add the eggs that can be picked.
- [x] Create an Inventory when you click it will show you your items.

- [x] Create Script Raycast and add to the main camera.
User Story 3
As a player, I want NPCs with animations. So, I can feel the game is alive.
- [x] Add townies.
- [x] Create Scrip WalkingNpc.
- [x] Add the talking functionality to the Script Raycast.
- [x] Change animation sit for male and female.
- [x] Create NavMeshSurface.
- [x] Add animations.
User Story 4
As a player, I want a main menu before I start my game. So, I can start my game easily
- [x] Add Main menu.
- [x] Add button Settings.
- [x] Add button Exit.
- [x] Add all settings.
- [x] Add Main menu Scripts.
User Story 5
As a player, I want a pause menu with a return button, a main menu button, and a settings button.
- [x] Add Pause menu.
- [x] Fix Inventory look.
- [x] Add Settings button.
- [x] Add MainMenu button.
- [x] Add settings.

- [x] Add all the functionality to GameManager Script.
User Story 6
As a player, I want a Timer and a way to win the game. So, the game is more exciting, and I have time to finish the game.
- [x] Add Victory and GameOver.
- [x] Polish game decoration.
- [x] Add timer.
User Story 7
As a player, I want an enemy. So, the game can be more intense and exciting.
- [x] Add a weapon, that just show up if the user the enemy appears too.
- [x] Add functionality shoot able only if the egg is got by the player.
- [x] Add an enemy to shoot.
User Story 8
As a player, I want a list of controls in my main menu and an easy way to always look at it. So, I know how to play the game.
- [x] Add a visual list of controls to the main menu.
- [x] Add a keycode to the player access list of controls.
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User Story 9

As a player, I want a store in my game. So, I can sell my items and buy the last item. Therefore, I can win.

- [x] Add value for all objects.
- [x] Add a store.
- [x] Add coin counter.
- [x] Add constrains for sale

User Story 10

As a player, I want the game to have a story. So, I will feel more connected to the game.

- [x] Add all the story pop-ups.
- [x] Fix any bugs.
- [x] Create build game.
- [x] Add load scene.
- [x] Add more lights.

Bibliography

Unity Packages:

input system

terrain tools

Standard Assets (for Unity 2018.4)

2D Sprite

SimpleSky --> Sky prefabs

Stylized Grass Texture \rightarrow Terrain paint

Stylize Water Texture → Terrain paint

Stylize Rock Texture → Terrain paint

RPG Poly Pack - Lite → Terrain prefabs

Polygonal Foliage Asset Package → Terrain prefabs

Low Poly Nature Assets Sample \rightarrow Terrain prefabs

Lowpoly Medieval Peasants - Free pack → NPCS

Water Effect Fits For Lowpoly Style \rightarrow Water prefab

Simple Low Poly Nature Pack → Terrain prefabs

Low Poly Fence Pack → Fence prefabs

Simplistic Low Poly Nature → Terrain prefabs

Fantasy RPG Cursor Pack → Cursor and crossair

Villager Animations Pack FREE → Animations / prefabs that NPC are interacting

Basic Motions FREE Pack → Animations

Everyday Motion Pack Free → Animations

Main Menu with Parallax Effect FREE → Main menu Background Assets

RPG inventory icons → Pause menu icons and Inventory icons

Food Icons Pack → Game icons

Low Poly Arsenal - Copper → Bow and arrow asset

Note: Every animation used in the game had a modification in the animator

Links for Music in the Game:

Relax by Derek Clegg→ https://creativecommons.org/licenses/by-nc-sa/4.0/

 $RainForest\ Sound\ \rightarrow\ \underline{http://soundbible.com/1818-Rainforest-Ambience.html}$

Script:

User Story 1→ RigidbodyFirstPersonController Script → Credit: Standart Asset

User Story 1→ AvoidWater Script → Credit: Marc-André Larouche

User Story 4→ Main Menu Script part PanelToggle → Credit: Marc-André Larouche

User Story 4→ Loading Scene Code → Credit: Marc-André Larouche

User Story 4→ Script SetGFX → Credit: Marc-André Larouche

User Story 4→ Script SetResolution → Credit: Marc-André Larouche

Learning sources:

 $\underline{\text{https://docs.unity3d.com/ScriptReference/Input.GetKeyDown.html}} \rightarrow \text{Getkeydown}$

https://docs.unity3d.com/ScriptReference/MonoBehaviour.Invoke.html → Invoke to disappear my texts

https://docs.unity3d.com/ScriptReference/Cursor-visible.html → Remembering how to use Cursor visible

https://docs.unity3d.com/ScriptReference/Rigidbody-interpolation.html → Understanding how to work with rigidbody

https://docs.unity3d.com/ScriptReference/RigidbodyConstraints.html → Understanding how to work with rigidbody

https://docs.unity3d.com/Manual/class-Animator.html → Animations / Learning how to use animator

https://docs.unity3d.com/Manual/InverseKinematics.html → Animations

https://docs.unity3d.com/ScriptReference/Time-timeScale.html → Trying to pause the game

https://docs.unity3d.com/Manual/Navigation.html → For NPC animation script/ about navigation system

https://docs.unity3d.com/ScriptReference/AI.NavMeshAgent-destination.html → For NPC animation script / About Ai

 $\underline{\text{https://docs.unity3d.com/2019.3/Documentation/Manual/nav-AgentPatrol.html}} \rightarrow \text{For NPC animation script}$

https://docs.unity3d.com/ScriptReference/AI.NavMeshAgent.SetDestination.html → For NPC animation script

https://docs.unity3d.com/ScriptReference/AI.NavMeshAgent.html → For NPC animation script

 $\underline{\text{https://docs.unity3d.com/Manual/nav-BuildingNavMesh.html}} \rightarrow \text{For NPC animation / Learning about navmesh}$

https://docs.unity3d.com/Manual/com.unity.kinematica.html → For NPC animation / Learning how to make it work

 $\underline{\text{https://docs.unity3d.com/Manual/AudioMixer.html}} \rightarrow \text{For Music in Settings' panel}$

https://docs.unity3d.com/ScriptReference/Audio.AudioMixer.SetFloat.html → Understanding audiomixer

<u>https://answers.unity.com/questions/1585291/how-to-load-audio-slider-values-from-playerprefs-a.html</u> → Learning how to create an audio slider

https://docs.unity3d.com/ScriptReference/Mathf.Log10.html → Learning why use Mathf.Log10 to create script for audio slider

 $\underline{\text{https://answers.unity.com/questions/1516472/spawn-an-object-at-the-location-of-an-empty-gameob.html} \rightarrow \textbf{How to spawn things}$

 $\underline{\text{https://docs.unity3d.com/Manual/UNetSpawning.html}} \rightarrow \text{Learning how to spawn things}$

 $\underline{\text{https://answers.unity.com/questions/266239/spawning-ammo.html}} \rightarrow \text{Learning how to spawn things}$