Sudharshanan Balaji

20BAI1242

Add Tileamap in scene and add a background:



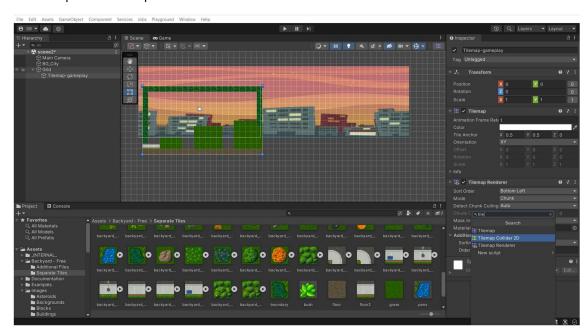
Create Tilemap:



Put tiles according to play:



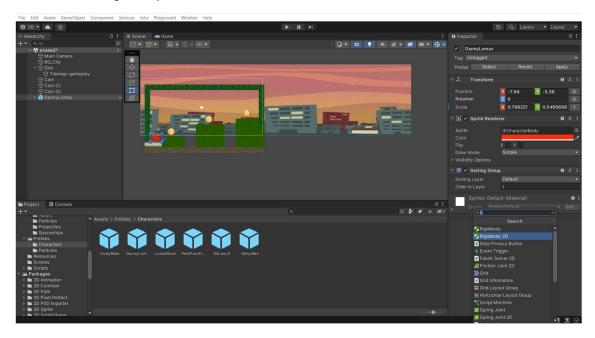
Add Component tilemap collider:



Polygon collider to collectables:



Add charac and rigid body to character:



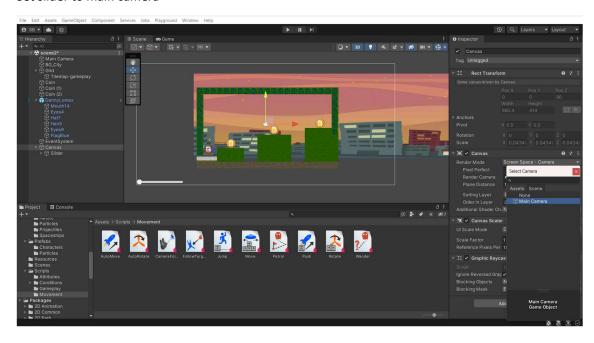
Add Jump and movement script:



Add slider:



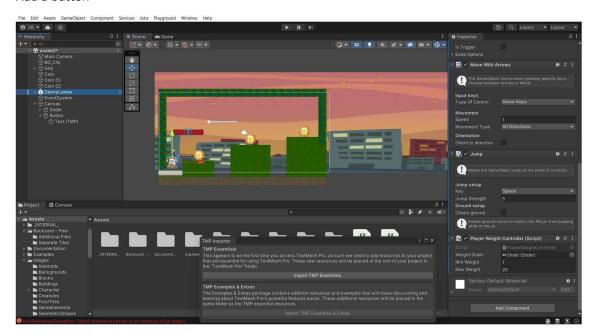
Set slider to main camera



Change the order in layer to 1 in canvas



Add a button



Add prarallax Script to Background and increase speed;



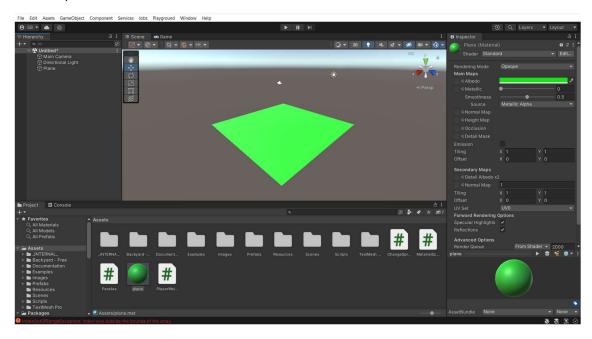
Add User interface prefab



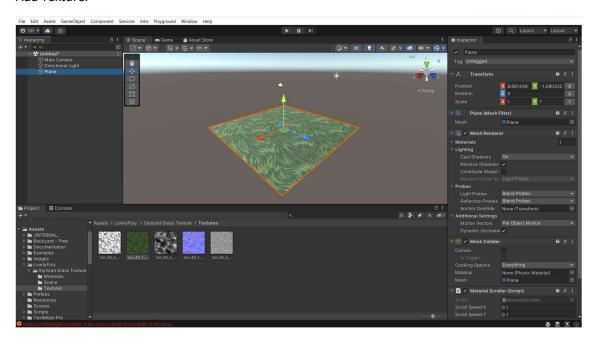
Gameplay Link:

https://drive.google.com/file/d/1cv1n98gXzc7nrXU8weQ aJfE3UFLllQK/view?usp=share link

Create a plane and add a material



Add Texture:



Game play link:

https://drive.google.com/file/d/163ddY3SFprprymi-vwmiKHlLtAUBmKOp/view?usp=sharing

Scripts used:

Material Scroll

```
using UnityEngine;
public class MaterialScroller : MonoBehaviour {
   public float scrollSpeedX = 0.1f;
   public float scrollSpeedY = 0.1f;
   new private Renderer renderer;
   void Start() {
       renderer = GetComponent<Renderer>();
   }
   void Update() {
       float offsetX = scrollSpeedX * Time.time;
       float offsetY = scrollSpeedY * Time.time;
       renderer.material.mainTextureOffset = new Vector2(offsetX, offsetY);
   }
}
```

Change color:

```
using UnityEngine;
using UnityEngine.UI;
public class ChangeSpriteColor : MonoBehaviour {
   public SpriteRenderer spriteRenderer;
   public Button colorButton;
   void Start() {
       spriteRenderer = GetComponent<SpriteRenderer>();
       colorButton.onClick.AddListener(xyz);
   }
   void xyz() {
       spriteRenderer.color = Color.blue;
   }
}
```

Parallax:

```
using System.Collections;
using System.Collections.Generic;
using UnityEngine;
public class Parallax : MonoBehaviour {
   public float parallaxSpeed = 0.02f;
   public Transform cameraTransform;
   private Vector3 lastCameraPosition;
   void Start() {
       lastCameraPosition = cameraTransform.position;
   }
   void FixedUpdate() {
```

```
float deltaMovement = cameraTransform.position.x -
lastCameraPosition.x;
    Vector3 backgroundPosition = transform.position;
    backgroundPosition.x += deltaMovement * parallaxSpeed;
    transform.position = backgroundPosition;
    if (cameraTransform.position == lastCameraPosition) {
        Vector3 simulatedMovement = new Vector3(parallaxSpeed *
        Time.fixedDeltaTime, 0, 0);
        transform.position -= simulatedMovement;
    }
    lastCameraPosition = cameraTransform.position;
}
```

PlayerWeightControl:

```
using UnityEngine;
using UnityEngine.UI;
public class PlayerWeightController : MonoBehaviour {
   public Slider weightSlider;
   public float minWeight = 1f;
   public float maxWeight = 20f;
   private Rigidbody2D playerRigidbody;
   void Start() {
        playerRigidbody = GetComponent<Rigidbody2D>();
        weightSlider.onValueChanged.AddListener(OnWeightChanged);
   }
   void OnWeightChanged(float value) {
        float weight = Mathf.Lerp(minWeight, maxWeight, value);
        playerRigidbody.mass = weight;
   }
}
```