Dungeon

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using UnityEngine;
public class PlayerController : MonoBehaviour
    public static PlayerController instance;
    public float moveSpeed;
    private Vector2 moveInput;
    public Rigidbody2D theRB;
    public Transform gunArm;
    public Animator anim;
    public SpriteRenderer bodySR;
    private float activeMoveSpeed;
    public float dashSpeed = 8f, dashLength = .5f, dashCooldown = 1f, dashInvincibility
= .5f;
    [HideInInspector]
    public float dashCounter;
    private float dashCoolCounter;
    [HideInInspector]
    public bool canMove = true;
    public List<Gun> availableGuns = new List<Gun>();
    [HideInInspector]
    public int currentGun;
    private void Awake()
    {
        instance = this;
        DontDestroyOnLoad(gameObject);
    }
    // Start is called before the first frame update
    void Start()
    {
        //theCam = Camera.main;
        activeMoveSpeed = moveSpeed;
        UIController.instance.currentGun.sprite = availableGuns[currentGun].gunUI;
        UIController.instance.gunText.text = availableGuns[currentGun].weaponName;
    }
    // Update is called once per frame
    void Update()
        if (canMove && !LevelManager.instance.isPaused)
            moveInput.x = Input.GetAxisRaw("Horizontal");
            moveInput.y = Input.GetAxisRaw("Vertical");
            moveInput.Normalize();
           theRB.velocity = moveInput * activeMoveSpeed;
            Vector3 mousePos = Input.mousePosition;
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Vector3 screenPoint =
CameraController.instance.mainCamera.WorldToScreenPoint(transform.localPosition);
            if (mousePos.x < screenPoint.x)</pre>
            {
                transform.localScale = new Vector3(-1f, 1f, 1f);
                gunArm.localScale = new Vector3(-1f, -1f, 1f);
            }
            else
            {
                transform.localScale = Vector3.one;
                gunArm.localScale = Vector3.one;
            }
            Vector2 offset = new Vector2(mousePos.x - screenPoint.x, mousePos.y -
screenPoint.y);
            float angle = Mathf.Atan2(offset.y, offset.x) * Mathf.Rad2Deg;
            gunArm.rotation = Quaternion.Euler(0, 0, angle);
        if(Input.GetKeyDown(KeyCode.Tab))
                if(availableGuns.Count > 0)
                    currentGun++;
                    if(currentGun >= availableGuns.Count)
                         currentGun = 0;
                    }
                    SwitchGun();
                } else
                    Debug.LogError("Player has no guns!");
            }
            if (Input.GetKeyDown(KeyCode.Space))
                if (dashCoolCounter <= 0 && dashCounter <= 0)</pre>
                    activeMoveSpeed = dashSpeed;
                    dashCounter = dashLength;
                    anim.SetTrigger("dash");
                    PlayerHealthController.instance.MakeInvincible(dashInvincibility);
                    AudioManager.instance.PlaySFX(8);
                }
            }
            if (dashCounter > 0)
                dashCounter -= Time.deltaTime;
                if (dashCounter <= 0)</pre>
                    activeMoveSpeed = moveSpeed;
                    dashCoolCounter = dashCooldown;
                }
            }
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if (dashCoolCounter > 0)
            {
                dashCoolCounter -= Time.deltaTime;
            }
            if (moveInput != Vector2.zero)
            {
                anim.SetBool("isMoving", true);
            }
            else
            {
                anim.SetBool("isMoving", false);
            }
        } else
            theRB.velocity = Vector2.zero;
            anim.SetBool("isMoving", false);
        }
    }
    public void SwitchGun()
        foreach(Gun theGun in availableGuns)
        {
            theGun.gameObject.SetActive(false);
        }
        availableGuns[currentGun].gameObject.SetActive(true);
        UIController.instance.currentGun.sprite = availableGuns[currentGun].gunUI;
        UIController.instance.gunText.text = availableGuns[currentGun].weaponName;
        AudioManager.instance.PlaySFX(6);
    }
}
```