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using UnityEngine;

public class BossController : MonoBehaviour
{
    public static BossController instance;

    public BossAction[] actions;
    private int currentAction;
    private float actionCounter;

    private float shotCounter;
    private Vector2 moveDirection;
    public Rigidbody2D theRB;

    public int currentHealth;

    public GameObject deathEffect, hitEffect;
    public GameObject levelExit;

    public BossSequence[] sequences;
    public int currentSequence;

    private void Awake()
    {
        instance = this;
    }

    // Start is called before the first frame update
    void Start()
    {
        actions = sequences[currentSequence].actions;

        actionCounter = actions[currentAction].actionLength;

        UIController.instance.bossHealthBar.maxValue = currentHealth;
        UIController.instance.bossHealthBar.value = currentHealth;
    }

    // Update is called once per frame
    void Update()
    {
        if(actionCounter > 0)
        {
            actionCounter -= Time.deltaTime;

            //handle movement
            moveDirection = Vector2.zero;

            if(actions[currentAction].shouldMove)
            {
                if(actions[currentAction].shouldChasePlayer)
                {
                    moveDirection = PlayerController.instance.transform.position -
transform.position;
                    moveDirection.Normalize();
                }

                if(actions[currentAction].moveToPoint && Vector3.Distance(transform.position,
actions[currentAction].pointToMoveTo.position) > .5f)

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        {
            moveDirection = actions[currentAction].pointToMoveTo.position -
transform.position;
            moveDirection.Normalize();
        }
    }

    theRB.velocity = moveDirection * actions[currentAction].moveSpeed;

    //handle shooting
    if(actions[currentAction].shouldShoot)
    {
        shotCounter -= Time.deltaTime;
        if(shotCounter <= 0)
        {
            shotCounter = actions[currentAction].timeBetweenShots;

            foreach(Transform t in actions[currentAction].shotPoints)
            {
                Instantiate(actions[currentAction].itemToShoot, t.position,
t.rotation);
            }
        }
    }
} else
{
    currentAction++;
    if(currentAction >= actions.Length)
    {
        currentAction = 0;
    }

    actionCounter = actions[currentAction].actionLength;
}
}

public void TakeDamage(int damageAmount)
{
    currentHealth -= damageAmount;

    if (currentHealth <= 0)
    {
        gameObject.SetActive(false);

        Instantiate(deathEffect, transform.position, transform.rotation);

        if (Vector3.Distance(PlayerController.instance.transform.position,
levelExit.transform.position) < 2f)
        {
            levelExit.transform.position += new Vector3(4f, 0f, 0f);
        }

        levelExit.SetActive(true);
    }
}

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        UIController.instance.bossHealthBar.gameObject.SetActive(false);
    }
    else
    {
        if(currentHealth <= sequences[currentSequence].endSequenceHealth && currentSequence
< sequences.Length - 1)
        {
            currentSequence++;
            actions = sequences[currentSequence].actions;
            currentAction = 0;
            actionCounter = actions[currentAction].actionLength;
        }
    }

    UIController.instance.bossHealthBar.value = currentHealth;
}

[System.Serializable]
public class BossAction
{
    [Header("Action")]
    public float actionLength;

    public bool shouldMove;
    public bool shouldChasePlayer;
    public float moveSpeed;
    public bool moveToPoint;
    public Transform pointToMoveTo;

    public bool shouldShoot;
    public GameObject itemToShoot;
    public float timeBetweenShots;
    public Transform[] shotPoints;

}

[System.Serializable]
public class BossSequence
{
    [Header("Sequence")]
    public BossAction[] actions;

    public int endSequenceHealth;
}

```