## **Project Report**



# Fall 2024 CSE-411L Intro to Game Development Lab

Submitted by:

Ali Asghar(21PWCSE2059)

Muhammad Sadeeq(21PWCSE2028)

Suleman Shah(21PWCSE1983)

Muhammad Shahab(21PWCSE2074)

Submitted to:

Engr. Abdullah Hamid

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Department of Computer Systems Engineering
University of Engineering and Technology, Peshawar

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## **Project Report: League of Assassin's**

## Introduction

League of Assassins is a top-down stealth action game set in meticulously crafted 3D environments where players assume the role of an elite assassin. With a knife for silent kills and a gun equipped with a silencer for discreet ranged eliminations, players must infiltrate various locations to eliminate high-profile targets while staying undetected.

## **Gameplay Features**

The following are the main gameplay features of this game.

## **Top-Down Gameplay**

The game features a top-down perspective, providing players with a strategic view of the environment and allowing them to plan their movements and stealth tactics effectively. The 3D environments are rich and detailed, offering multiple pathways, hiding spots, and opportunities for environmental interaction, which are crucial for completing stealth-based missions.

#### **Player Character - The Assassin**

Players take on the role of a skilled assassin belonging to the prestigious League of Assassins. The character is equipped with two primary weapons:

#### 1. Knife

A silent, close-range weapon that allows the player to eliminate targets quietly and without alerting others. It is ideal for stealth kills when the player is up close to enemies.

#### 2. Silenced Gun

A range weapon with a silencer attached, ensuring that the gunshots do not alert nearby enemies. However, the gun has limited ammunition, so players must use it strategically, balancing between silent knife kills and careful gunshots when needed.

The key challenge is to carefully use both weapons in combination, determining when to rely on stealthy knife kills or when the silenced gun is necessary to eliminate distant or harder-to-reach targets.

#### **Stealth and Assassination**

At the heart of the gameplay is the need for stealth. The environment is full of patrolling enemies and obstacles, and players must navigate these spaces without being detected. Enemy AI is programmed with dynamic behavior patterns, including patrolling and standing guard

#### **Detection System**

Enemies have a field of vision. If the player enters this field, they risk being detected. The player's goal is to avoid detection by using cover, staying out of sight, and using the silenced gun or knife when appropriate. The player must plan their approach carefully to avoid triggering alarms or being seen.

## **Level Objectives and Approaches**

Each mission has a central target the player must eliminate. There are multiple ways to complete the objectives:

## 1. Stealth Kill (Silent Approach)

The player avoids detection by using the knife and silenced gun to take out enemies quietly. The target is killed without alerting anyone, and no chaos is caused. This approach reflects a true assassin's skill and rewards players with high fame.

#### 2. Discreet Gunshots (Silenced Approach)

The player uses the silenced gun to eliminate the target or any necessary guards. Although this still maintains a level of discretion, it's riskier than relying on the knife. Players must be cautious with the gun's limited ammo.

## 3. Avoid Combat (Non-violent Approach)

The player may decide to avoid killing other enemies entirely, focusing only on the target. By bypassing most guards and using stealth to reach the target undetected, the player avoids unnecessary bloodshed, which can impact the ending.

#### 4. Failed Stealth

If the player is detected during the mission, the game forces a shift to combat mode. The player may then choose to fight their way out or attempt a hasty escape, but they will suffer a loss in reputation, and the mission ends in failure.

#### **3D Environments**

The game takes place in a detailed urban scene that features both exterior and interior spaces. The environment includes intricately designed buildings, furnished interiors, and various props that enhance immersion. Players can navigate through open streets, enter buildings, and utilize the surroundings for strategic gameplay. The level design encourages stealth, offering hiding spots, interactive objects, and multiple ways to approach objectives.

## **Input Controls**

There are two types of controls: Touch-Based (Point & Click) and Joystick.

#### • Touch-Based (Point & Click):

Players can tap on the screen to move their character to the selected location. This control scheme is ideal for a more tactical and calculated playstyle.

## • Joystick:

A virtual joystick allows for full manual movement, giving players precise control over their character's positioning and actions. The right side of the screen can be used for camera movement, while additional on-screen buttons enable interactions such as crouching, sprinting, and using special abilities. This setup is suited for players who prefer a more hands-on and immersive experience.

#### **Combat Mechanics:**

- When a player is near an enemy, they can use a **melee knife** for a silent takedown.
- If the enemy is within the **laser sight** of the pistol, players can take a ranged shot for a quick elimination.

## **Contribution of Each Group Member**

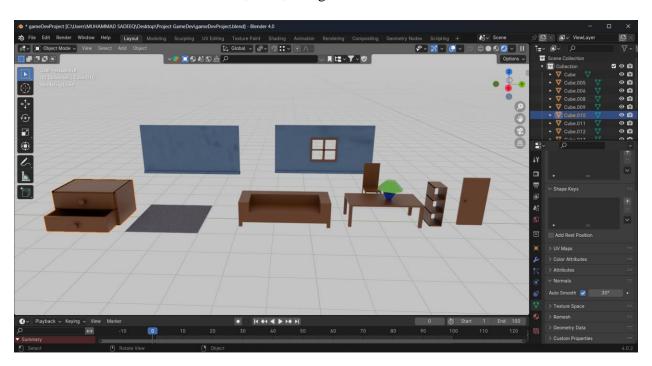
The contribution of each group member is described as follows.

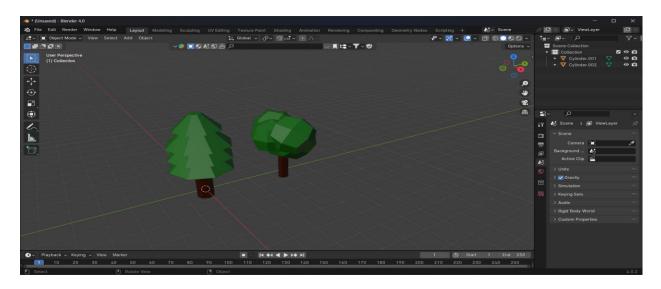
## Muhammad Sadeeq's Contribution as a 3D Artist

As the 3D Artist, Sadeeq was responsible for creating various models essential to the game. These models were designed, textured, and optimized for performance in Unity. Below are the key models he created:

## 1. Environment Assets

- Walls: Designed low-poly walls with textures to create an immersive game world.
- **Props:** Created objects such as table, chairs, doors, and lamp to enhance the game environment.
- Terrain Features: Modeled, trees, and grass to add realism to outdoor areas.





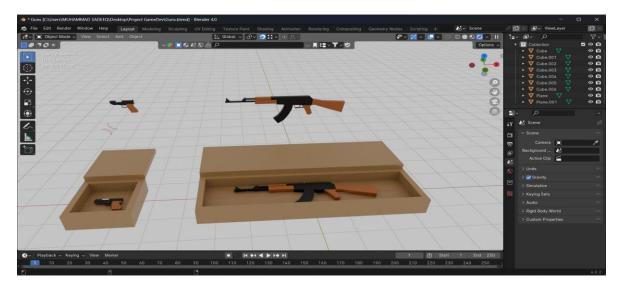
## 2. Character Models

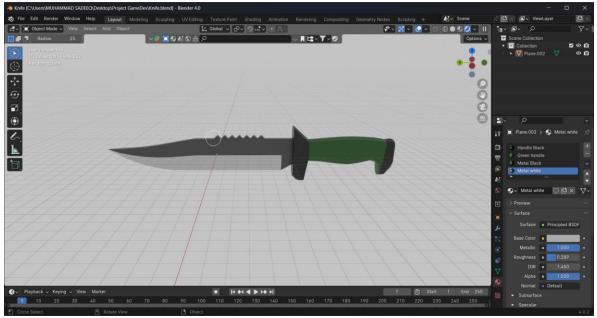
- **Main Character:** Downloaded a 3D model for playable character, fixing and optimization of it mesh, ensuring proper rigging and animation compatibility.
- NPCs (Non-Playable Characters): Created enemy NPC from the main character by making changes in it mesh and materials.



## 3. Weapons & Items

- Weapons: Modeled guns, other weapons based on game requirements.
- Collectibles: Designed gun boxes, and other collectible items.





## **Tools & Software Used**

- **Blender:** 3D modeling, texturing, and UV unwrapping.
- Unity 3D: Integration of 3D assets into the game.
- **Mixamo:** For rigging the characters

- Challenge: High-poly models affected performance.
  - o **Solution:** made low-poly asset
- Challenge: Texture misalignment issues.
  - o **Solution:** Proper UV unwrapping and texture mapping.
- Challenge: Importing models with animations.

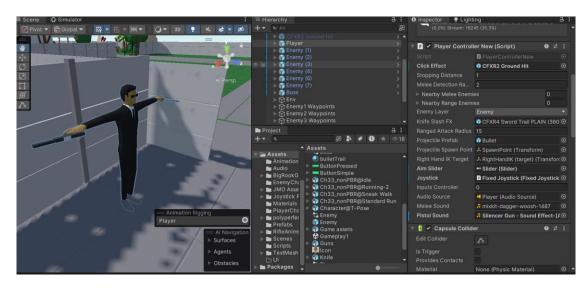
• **Solution:** Ensured correct rigging and exported models in FBX format for seamless Unity integration.

## Ali Asghar's Contribution as Main Logic Designer

As the Main Logic Designer, Ali Asghar was responsible for implementing core gameplay mechanics and system logic. He designed and optimized game interactions, ensuring smooth and efficient execution in Unity. Below are the key areas he contributed to:

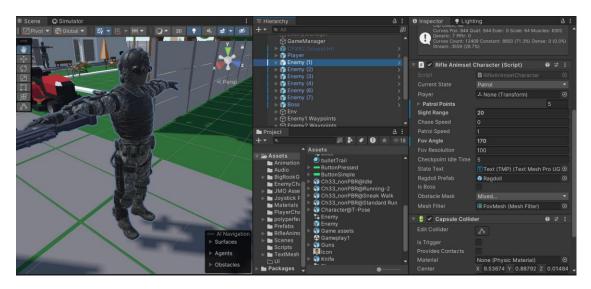
## 1. Gameplay Mechanics

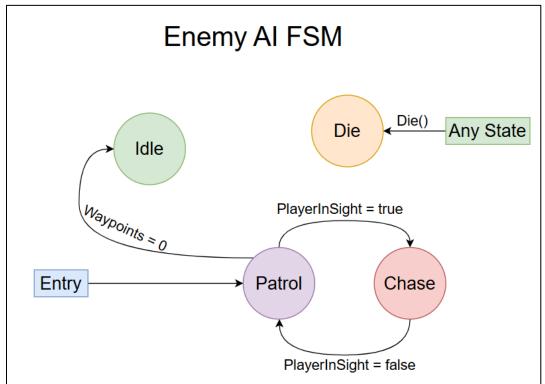
- **Player Input Controls:** Developed responsive player movement, handling inputs and physics interactions.
- Combat System: Implemented shooting mechanics, enemy AI behavior, and damage calculations.



## 2. AI & Game Systems

- **Enemy AI:** Programmed NPC behaviors, including patrolling, attacking, and reacting to the player.
- **State Management:** Utilized state machines to manage different game states such as idle, attack, and chase.





- Challenge: AI pathfinding was inefficient in complex environments.
  - o **Solution:** Implemented NavMesh for dynamic navigation and obstacle avoidance.
- Challenge: Player inputs felt unresponsive.
  - o **Solution:** Refined input handling with interpolation and better physics calculations.

## Suleman Shah's Contribution as Level and Game Designer

As the Level and Game Designer, Suleman Shah was responsible for designing engaging game environments and ensuring a seamless player experience. He crafted immersive levels, balanced game mechanics, and optimized player progression. Below are the key areas he contributed to:

## **Level Design & Environment Development**

- **Map Layouts:** Designed well-structured game levels, ensuring balanced pacing and exploration opportunities.
- **Environmental Storytelling:** Created immersive environments that enhanced narrative and player engagement.
- Player Navigation: Designed clear pathways and objectives to ensure intuitive movement and interaction.





- Challenge: Levels felt too linear, reducing player engagement.
  - o **Solution:** Introduced multiple pathways and hidden areas to encourage exploration.
- **Challenge:** Players struggled with navigation due to poor visibility of objectives.
  - o **Solution:** Enhanced visual cues and lighting to guide players more effectively

## Muhammad Shahab's Contribution as UI Designer

As the UI Designer, Muhammad Shahab was responsible for creating an intuitive and visually appealing user interface. He focused on usability, accessibility, and aesthetic consistency to enhance the player's experience. Below are the key areas he contributed to:

## **User Interface Design**

Menu & HUD Design: Developed user-friendly menus, heads-up displays (HUDs), and interactive elements.



- Challenge: UI elements were cluttered, reducing usability.
  - o **Solution:** Simplified layouts and implemented clear visual hierarchies.
- Challenge: Inconsistent UI responsiveness across different devices.
  - o **Solution:** Used scalable design techniques and adaptive UI components.

## **Code Screenshots**

## **PlayerController Script**

```
PlayerControllerNew.cs X
Assets > Scripts > ♥ PlayerControllerNew.cs > ♥ PlayerControllerNew > ♥ aimSlider
  8 v public class PlayerControllerNew : MonoBehaviour
           private Animator animator;
           private Vector3 target;
           private NavMeshPath path; // Stores the calculated path
           private int currentWaypoint = 0; // Current waypoint in the path
           public GameObject clickEffect;
           public float stoppingDistance = 0.5f; // Stop before reaching exact point
           public float meleeDetectionRadius = 3f; // Adjust as needed
           public List<Collider> nearbyMeleeEnemies;
           public List<Collider> nearbyRangeEnemies;
           public LayerMask enemyLayer; // Assign this in the Inspector
           public GameObject knifeSlashFX;
           public float rangedAttackRadius = 10f; // Adjust as needed
           public GameObject projectilePrefab; // Assign in Inspector
           public Transform projectileSpawnPoint; // Assign a spawn point for the projectile
           public Transform rightHandIKTarget;
```

```
private Collider GetClosestMeleeEnemy(){
    Collider closest = null;
    float closestDistance = float.MaxValue;

foreach (Collider enemy in nearbyMeleeEnemies){
    float distanceToEnemy = Vector3.Distance(transform.position, enemy
    if (distanceToEnemy < closestDistance){
        closest = enemy;
        closestDistance = distanceToEnemy;
    }

return closest;

return closest;

}</pre>
```

```
public void PerformMelee(){
   var enemy = GetClosestMeleeEnemy();
   if (NavMesh.CalculatePath(transform.position, enemy.transform.position, NavMesh.All
        if (path.corners.Length > 1){
            currentWaypoint = 0;
           target = path.corners[currentWaypoint]; // Set first waypoint
            StartWalking();
   Vector3 direction = (enemy.transform.position - transform.position).normalized;
   transform.rotation = Quaternion.LookRotation(direction); // Rotate towards next poi
   // Play melee attack sound
   if (audioSource != null && meleeSound != null)
        audioSource.PlayOneShot(meleeSound);
   animator.SetBool("IsMelee", true);
   StartCoroutine(DisableIsMeleeParam());
   RifleAnimsetCharacter enemyChar = enemy.GetComponent<RifleAnimsetCharacter>();
   enemyChar.Die();
   knifeSlashFX.SetActive(true);
   if (enemyChar.isBoss)
       GameManager.Instance.GameWin();
```

```
IEnumerator DisableIsMeleeParam(){
    yield return new WaitForSeconds(1f);
    animator.SetBool("IsMelee", false);
}

1reference

public void PerformRangeAttack(){
    var enemy = GetClosestEnemyInRange();
    if (enemy == null) return;

Vector3 direction = (enemy.transform.position - transform.position).normalized;
    if (audioSource != null && pistolSound != null)
        audioSource.PlayOneShot(pistolSound);
```

```
void StartWalking(){
    animator.SetFloat("InputMagnitude", 1f);
    animator.SetFloat("Vertical", 1f);
    animator.SetBool("IsStopRU", false);
    animator.SetBool("IsStopLU", false);
void StopWalking(){
    animator.SetFloat("InputMagnitude", 0f);
    animator.SetFloat("Vertical", 0f);
    animator.SetBool("IsStopRU", true);
    animator.SetBool("IsStopLU", true);
0 references
public void UpdateAimRotation(float value){
    if (rightHandIKTarget != null){
        rightHandIKTarget.localRotation = Quaternion.Euler(0, 0, value);
void JoystickInputs(){
    float horizontal = joystick.Horizontal;
    float vertical = joystick.Vertical;
    // Convert joystick input to world direction
```

```
// Convert joystick input to world direction
Vector3 inputDirection = new Vector3(horizontal, 0, vertical);
if (inputDirection.magnitude > 0.1f) {
    // Align input with the camera's forward direction
   Vector3 cameraForward = Camera.main.transform.forward;
    cameraForward.y = 0; // Ignore vertical tilt
   Vector3 cameraRight = Camera.main.transform.right;
    cameraRight.y = 0;
    // Compute movement direction relative to the camera
   Vector3 moveDirection = (cameraRight * horizontal + cameraForward * vertical
    // Set animator parameters
    animator.SetFloat("InputMagnitude", 1);
    animator.SetFloat("Vertical", inputDirection.magnitude);
    animator.SetBool("IsStopRU", false);
    animator.SetBool("IsStopLU", false);
    // Rotate character exactly toward movement direction
   transform.rotation = Quaternion.LookRotation(moveDirection);
else{
    // Idle state
    animator.SetFloat("InputMagnitude", 0);
    animator.SetFloat("Vertical", 0);
    animator.SetBool("IsStopRU", true);
    animator.SetBool("IsStopLU", true);
```

```
void PointClickInputs(){
   Rect allowedScreenArea = new Rect(100, 100, Screen.width, Screen.height - 300);

if (Input.GetMouseButtonDown(0) && allowedScreenArea.Contains(Input.mousePosition)){

Ray ray = Camera.main.ScreenPointToRay(Input.mousePosition));

int layerMask = LayerMask.GetMask("Ground");

if (Physics.Raycast(ray, out RaycastHit hit, Mathf.Infinity, layerMask)){

//Debug.Log(hit.transform.name);

// Debug.Log("DISTANCE" + Vector3.Distance(hit.transform.position, transform.if (Vector3.Distance(hit.transform.position, transform.position) < 2.2f){

Debug.Log("RETURNNED");
return;
}

clickEffect.SetActive(true);
clickEffect.transform.position = hit.point;
Debug.Log("Hit Position: " + hit.point);</pre>
```

```
if (NavMesh.CalculatePath(transform.position, hit.point, NavMesh.AllAreas, pa
if (path.corners.Length > 1){
    currentWaypoint = 0;
    target = path.corners[currentWaypoint];
    StartWalking();
}

StartWalking();

MoveAlongPath();
```

**Enemy AI Script** 

```
ssets > Scripts > 🕻 RifleAnimsetCharacter.cs > 😭 RifleAnimsetCharacter
     public class RifleAnimsetCharacter : MonoBehaviour
         public enum State { Patrol, Chase, Idle, Die }
         public State currentState = State.Patrol;
         public Transform player;
         public Transform[] patrolPoints;
         private Transform currentWaypoint;
         public float sightRange = 10f;
         public float chaseSpeed = 1f;
         public float patrolSpeed = 0.5f;
         public float fovAngle = 90f;
         public int fovResolution = 20;
         public float checkpointIdleTime = 5f; // Time to idle at a ch
         private Animator animator;
         private int currentPatrolIndex = 0;
         private bool playerSpotted = false;
```

```
private bool gameOverTriggered = false;
public TMP_Text stateText;
public GameObject ragdollPrefab;
public bool isBoss = false;
private Mesh fovMesh;
public LayerMask obstacleMask; // To detect obstacles
public MeshFilter meshFilter;
void Start(){
    animator = GetComponent<Animator>();
    animator.SetBool("IsAware", true);
   if (player == null) player = GameObject.FindGameObjectWithTag("Player").transform;
   currentState = State.Patrol;
    fovMesh = new Mesh();
    if (meshFilter != null) meshFilter.mesh = fovMesh;
void LateUpdate(){
   if (meshFilter != null) DrawFOV();
```

```
void Update(){
   if (!gameOverTriggered && playerSpotted){
       gameOverTriggered = true;
       GameManager.Instance.GameOver();
       Destroy(this);
   switch (currentState){
           Patrol();
          Chase();
          break;
           Idle();
           break;
           Die();
           break;
void Patrol(){
   if (patrolPoints.Length == 0){
       currentState = State.Idle;
```

```
currentState = State.Idle;
        animator.SetFloat("Speed", 0);
        return;
    animator.SetFloat("Speed", patrolSpeed);
    currentWaypoint = patrolPoints[currentPatrolIndex];
    Vector3 direction = (currentWaypoint.position - transform.position).normalized;
    // Smoothly rotate towards the waypoint using Quaternion.Slerp
    Quaternion targetRotation = Quaternion.LookRotation(direction);
    transform.rotation = Quaternion.Slerp(transform.rotation, targetRotation, Time.de
    if (Vector3.Distance(transform.position, currentWaypoint.position) < 0.5f){</pre>
        currentPatrolIndex = (currentPatrolIndex + 1) % patrolPoints.Length;
        StartCoroutine(IdleAtCheckpoint()); // Idle at checkpoint for a while
    if (PlayerInSight()){
        currentState = State.Chase;
        animator.SetFloat("Speed", chaseSpeed);
        playerSpotted = true;
        return;
void Chase(){
```

```
void Chase(){
              if (!PlayerInSight()){
                  currentState = State.Patrol;
                  animator.SetFloat("Speed", patrolSpeed);
                  return;
103
104
105
              // Smoothly rotate towards the player using Quaternion.Slerp
106
              Vector3 direction = (player.position - transform.position).normalized;
              Quaternion targetRotation = Quaternion.LookRotation(direction);
107
108
              transform.rotation = Quaternion.Slerp(transform.rotation, targetRotation, Time.delt
              animator.SetFloat("Speed", chaseSpeed);
109
110
111
          void Idle(){
              playerSpotted = PlayerInSight();
          public void Die(){
116
117
              Instantiate(ragdollPrefab, transform.position, transform.rotation);
118
              Destroy(gameObject);
119
120
          bool PlayerInSight(){
              float distanceToPlayer = Vector3.Distance(transform.position, player.position);
              if (distanceToPlayer <= sightRange){</pre>
                  Vector3 directionToPlayer = (player.position - transform.position).normalized;
```

```
Vector3 directionToPlayer = (player.position - transform.position).normalized;
        float angleToPlayer = Vector3.Angle(transform.forward, directionToPlayer);
        if (angleToPlayer < fovAngle / 2){</pre>
            if (Physics.Raycast(transform.position, directionToPlayer, out RaycastHit h
                if (hit.transform == player){
   return false;
void DrawFOV(){
   // Lists to store local-space vertices and triangle indices.
   List<Vector3> vertices = new List<Vector3>();
   List<int> triangles = new List<int>();
   vertices.Add(Vector3.zero);
   float stepAngle = fovAngle / fovResolution;
    for (int i = 0; i \leftarrow fovResolution; i++){}
        // Calculate the current angle relative to the forward direction.
        float angle = -fovAngle / 2 + stepAngle * i;
        // Compute the world-space direction.
       Vector3 worldDirection = Quaternion.Fuler(0, angle, 0) * transform.forward:
```

```
// Calculate the default end point in world space.
Vector3 worldVertex = transform.position + worldDirection * sightRange;

// If an obstacle is hit, update the endpoint.
if (Physics.Raycast(transform.position, worldDirection, out RaycastHit hit, sig
worldVertex = hit.point;
}

// Convert the world-space vertex to local space relative to this transform.
Vector3 localVertex = transform.InverseTransformPoint(worldVertex);
vertices.Add(localVertex);
}

// Create triangles for the mesh using a triangle fan.
// Starting from the center (vertex 0), each pair of consecutive vertices forms a t for (int i = 1; i < vertices.Count - 1; i++){
    triangles.Add(0); // Center of the fan.
    triangles.Add(i); // Current boundary point.
    triangles.Add(i) // Current boundary point.
```

```
private IEnumerator IdleAtCheckpoint(){

currentState = State.Idle;
animator.SetFloat("Speed", 0);
yield return new WaitForSeconds(checkpointIdleTime); // Wait for the checkpoint
currentState = State.Patrol; // Resume patrolling after idle time
}

}
```

## **GameManager Script**

```
public void GameOver(){
    Debug.Log("Game Over!");
    gameOverPanel.gameObject.SetActive(true);
    inGamePanel.gameObject.SetActive(false);
}

1 reference
public void GameWin(){
    Debug.Log("Game Win!");
    gameWinPanel.gameObject.SetActive(true);
}

1 reference
public void EnableKnifeButton(){
    inGamePanel.EnableKnifeButton();
}

1 reference
public void DisableKnifeButton();
}

1 reference
public void DisableKnifeButton();
}

1 reference
public void EnableFistolButton();
}

2 reference
public void EnablePistolButton();
}

1 reference
public void EnablePistolButton();
}

1 reference
public void EnablePistolButton();
}

1 reference
public void DisablePistolButton();
}

1 references
public void DisablePistolButton();
}
```

```
public void EnableCutscenePanel(){
    cutscenePanel.SetActive(true);
}

2 references
public void DisableCutscenePanel(){
    cutscenePanel.SetActive(false);
}

2 references
public void EnableInGameUI(){
    inGamePanel.gameObject.SetActive(true);
}

1 reference
public void DisableInGameUI(){
    inGamePanel.gameObject.SetActive(false);
}
```

**Bullet Script** 

**CameraFollow Script** 

#### **Cutscene Script**

```
yield return new WaitForSeconds(switchDelay);
       SetTarget(targets[currentTargetIndex]);
        currentTargetIndex = (currentTargetIndex + 1) % targets.Length;
    } while (currentTargetIndex != targets.Length - 1);
    SetTarget(targets[currentTargetIndex]);
    GameManager.Instance.player.enabled = true;
    GameManager.Instance.DisableCutscenePanel();
    GameManager.Instance.EnableInGameUI();
    Destroy(gameObject);
void SetTarget(Transform target){
   cameraFollow.target = target;
public void SkipCutscene(){
   StopAllCoroutines();
    SetTarget(targets[targets.Length - 1]);
    GameManager.Instance.player.enabled = true;
   GameManager.Instance.DisableCutscenePanel();
    GameManager.Instance.EnableInGameUI();
    Destroy(gameObject);
```

LaserCollider Script

## **SettingsController Script**

```
public class SettingsController : MonoBehaviour{
   public ToggleGroup toggleGroup;
   public Toggle toggleOption1;
   public Toggle toggleOption2;
   private string playerPrefKey = "InputsControl";
   public GameObject settingsPanel;
   public GameObject mainMenuPanel;
   public Button backButton;
   void Start(){
       LoadToggleState();
       backButton.onClick.AddListener(BackPressed);
   public void OnToggleChanged(){
       // Get the active toggle
       Toggle activeToggle = toggleGroup.GetFirstActiveToggle();
       if (activeToggle != null){
           int toggleIndex = activeToggle == toggleOption1 ? 0 : 1;
           PlayerPrefs.SetInt(playerPrefKey, toggleIndex);
```

```
PlayerPrefs.SetInt(playerPrefKey, toggleIndex);
PlayerPrefs.Save();
}

1reference
void LoadToggleState(){
int savedValue = PlayerPrefs.GetInt(playerPrefKey, 1); // Default to 1

// Set the correct toggle active based on saved value
if (savedValue == 0)
toggleOption1.isOn = true;

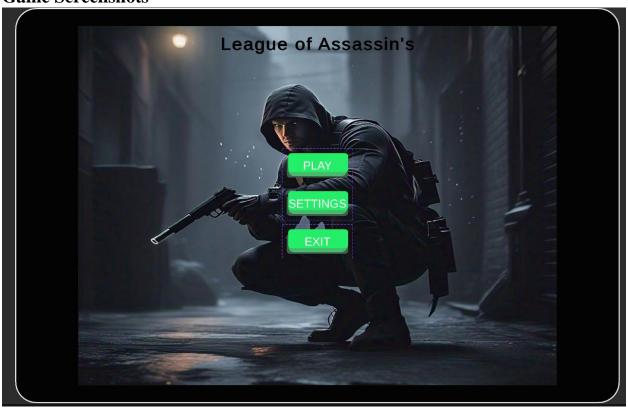
else
toggleOption2.isOn = true;

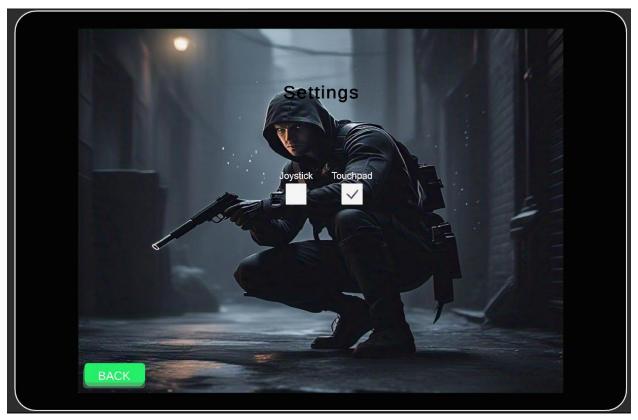
}

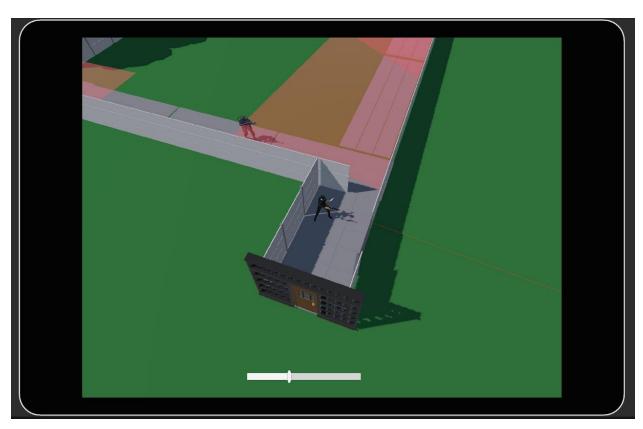
1reference
void BackPressed(){
settingsPanel.SetActive(false);
mainMenuPanel.SetActive(true);

44
}
```

# **Game Screenshots**









## **Topics Covered from the Course**

The following topics from the course were covered during the project.

- 1. Level Designing
- 2. PlayerPrefs
- 3. C# Scripting
- 4. Built-In Unity Methods (OnTriggerEnter, OnTriggerExit etc)
- 5. Animator Controllers and Animations
- 6. Input System
- 7. Unity UI
- 8. Unity Physics

## Conclusion

League of Assassins offers rich and immersive stealth experience, where careful planning, precise execution, and tactical thinking are essential to success. Whether you prefer silent knife kills, discreet gunshots, or non-violent approaches, the game rewards those who can navigate its dangerous world with finesse and precision. Your reputation as an assassin will shape your journey in the League of Assassins, and only the most skilled will achieve the highest fame and respect.