# Unity Developer Intern Assessment

#### **Objective**

The goal of this assessment is to create a custom Unity Editor window that allows users to list and manage GameObjects in the scene. The window should provide filtering, searching, toggling active states, and support for Undo/Redo functionality.

#### Requirements

#### GameObject List

- Display all GameObjects in the current scene within the custom Editor window.
- The list should include each GameObject's **name** and **active state**.

### **Editing Selected GameObjects**

- When a GameObject is selected from the list, the user should be able to edit its Position, Rotation, and Scale
  values.
- Any modifications must support Undo/Redo functionality.

#### Search Bar

- Users should be able to search for GameObjects by name.
- The search should dynamically update the displayed results as the user types.

#### **Filtering**

- Users should be able to filter GameObjects based on their components.
- The filtering options should allow users to display only GameObjects that contain:
  - o A Mesh Renderer component
  - A **Collider** component (e.g., BoxCollider, SphereCollider, etc.)
  - A **Rigidbody** component

#### **Active State Toggle**

• Users should be able to toggle the active state of each GameObject using an on/off checkbox in the list.

#### **Undo/Redo Support**

• All modifications should be reversible using **Undo/Redo** actions.

#### Multi-Selection & Batch Editing

- Users should be able to select multiple GameObjects and modify their Position, Rotation, and Scale simultaneously.
- The tool should also allow batch operations such as:
  - Adding a component to all selected GameObjects
  - Removing a component from all selected GameObjects

### **Scene Setup**

The scene should include the following GameObjects, each with unique names:

- 1. 5 Cubes with a Mesh Renderer component.
- 2. 5 Cubes with a Box Collider component.
- 3. **5 GameObjects** with a **Rigidbody** component.
- 4. 5 Spheres with both Sphere Collider and Mesh Renderer components.
- 5. 5 GameObjects with a Collider, Rigidbody, and Mesh Renderer components.

- 6. **5 Inactive** GameObjects.
- 7. **5 GameObjects** that contain only a **Transform** component.

## Technical Requirements $\mathcal{O}$

• Use Unity 6000.0.40f1

### Deliverables *⊘*

- Fully functional Unity project folder.
- Documentation about the developed module

### Submission Instructions $\mathscr{O}$

- Submit the Unity project via a Git repository link (e.g., GitHub, GitLab).
- Include all documentation and the gameplay video (if any) in the repository.
- Ensure the repository is public or provide access if it is private.