# Unity Developer Intern Assessment

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# 1. Overview

### 1.1 Introduction

GameObject Manager provides an interface for managing scene objects in Unity. It's designed to work with both single and multiple GameObjects.

### 1.2 Installation and Access

To open the GameObject Manager, navigate to Window > GameObject Manager in the Unity's main menu.



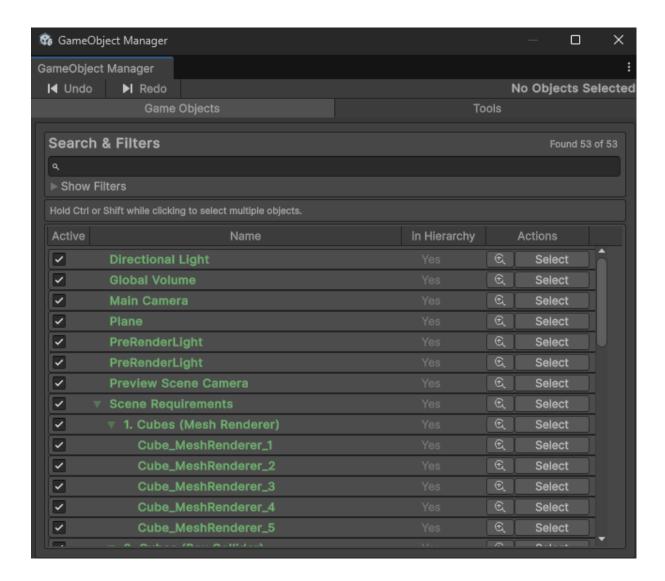
# 2. Interface Overview

The GameObject Manager interface is divided into two main tabs:

# 2.1 GameObjects Tab

The primary tab displays all GameObjects in your scene with filtering options. It includes:

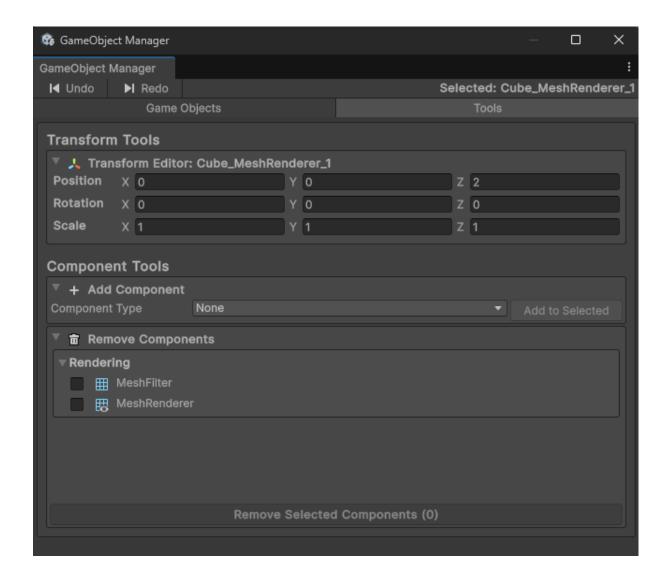
- Search & Filters Panel
- GameObjects List
- Actions for GameObjects



# 2.2 Tools Tab

Contains tools for editing selected GameObjects such as:

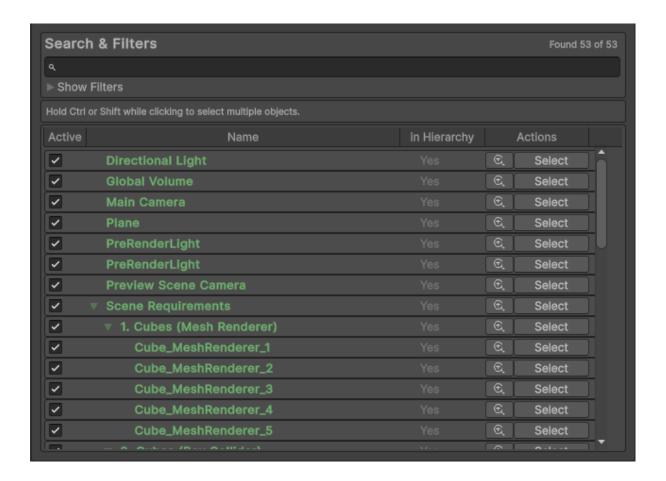
- Transform Tools
- Component Tools



# 3. Features

# 3.1 GameObject Management

In GameObject Manager, you can see all of the GameObjects in the scene with their active state, name, and self active state.



### 3.1.1 Searching

GameObjects can be searched by name. Searching includes:

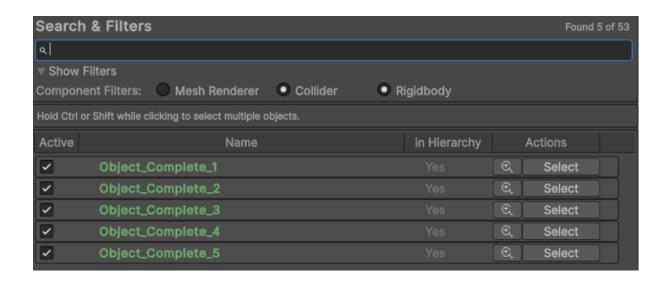
- Dynamic Results: The list updates in real-time as you type
- Results Count: Shows how many objects match the current search



# 3.1.2 Filtering

GameObjects can be filtered by component types. Filtering includes:

- Component Filters: Filter objects by their attached components
- Results Count: Shows how many objects match the filters



# 3.1.3 Active State Toggle

Users can toggle the active state of each GameObject using an on/off checkbox in the GameObject list. Active state also represented by green/red colored texts, green meaning active, and red meaning inactive.



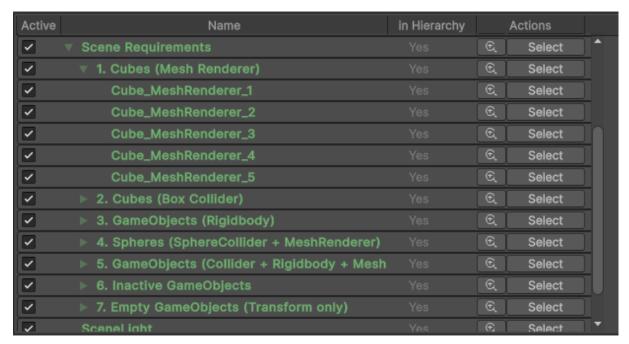
The active state means that the objects is active/inactive by itself whereas in Hierarchy means that the object is active/inactive in hierarchy.



#### 3.1.4 Hierarchical View

GameObjects can expand/collapse based on their hierarchy. This view contains:

- Hierarchical Structure: Parent-child relationships are maintained
- Expandable/Collapsible Nodes: Arrow indicators for objects with children





#### 3.1.5 Multi-Selection

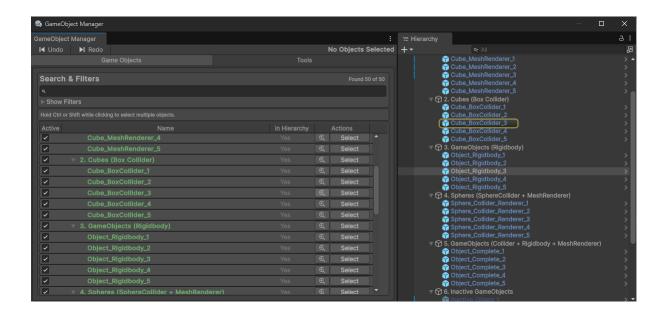
GameObjects can be selected as multiple objects for batch operations. User needs to hold Ctrl or Shift while clicking "Select" to choose multiple objects.



#### 3.1.6 Actions

Ping objects and select GameObjects. Actions contain:

- Ping in Hierarchy: Highlights the object in hiearchy for improving readability
- Select: Selects the object for operations in Tools.



# 3.2 Transform Tools

Edit transform properties of selected GameObjects.

# 3.2.1 Single Object Editing

Modify position, rotation, and scale of the selected GameObject.



# 3.2.2 Batch Operations

Apply the same transform changes to multiple selected GameObjects.



# 3.3 Component Tools

Add and remove components from selected GameObject.



# 3.3.1 Add Components

Add components to selected GameObject.

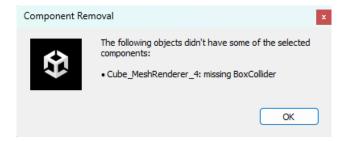


### 3.3.2 Remove Components

Remove components from selected GameObject.



Displays a warning if one or more selected GameObjects do not have the selected component to remove when performing batch removal.



# 3.3.3 Categorized View

Components are organized into logical categories.



# 3.3.4 Visual Icons

Component types are displayed with their associated Unity icons.



# 3.4 Undo/Redo Support

The GameObject Manager fully integrates with Unity's Undo/Redo system, allowing to experiment with changes. It also includes dedicated Undo/Redo buttons.

