### Guide for Loading Models onto a HoloLens Using Unity

#### **Step 1: Connect the Router**

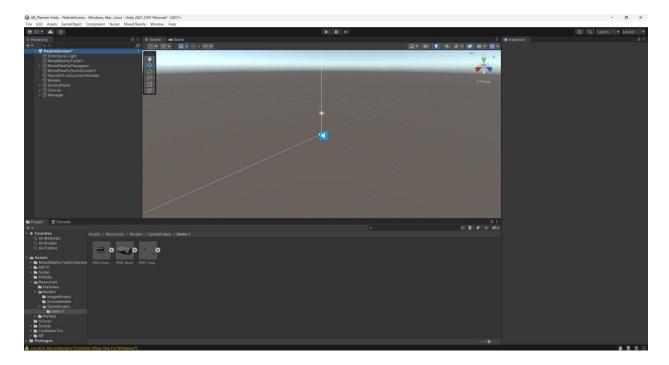
- 1. Plug the router into an electrical outlet.
- 2. Ensure the router powers on.
- 3. Connect both the computer running Unity and the HoloLens to the **HiveHoloLens** network.

#### **Step 2: Prepare the Model Files**

- 1. Obtain the model file(s) from HIVE/Mauro.
- 2. Create a folder for the patient and place model file(s) into this folder.
- 3. Place the patient folder into the project's "SpineModels" folder.
  - The file path is relative to where the project is stored and should look like this:

### **Step 3: Open the Unity Project**

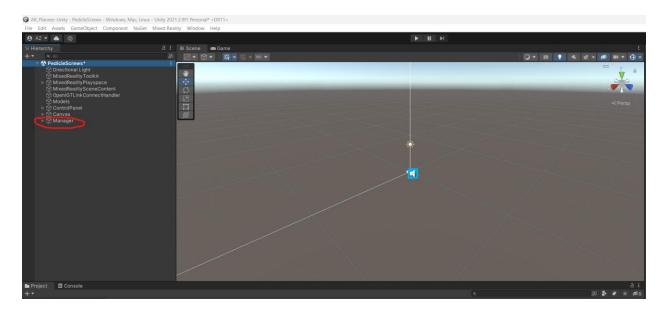
- 1. Open Unity Hub.
- 2. Select the AR\_Planner-Unity project to open the project.



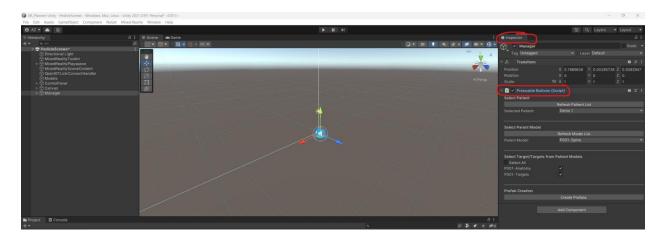
Screen Shot of the AR Project open in Unity

# **Step 4: Configure the Manager Object**

1. In the **Hierarchy** window (located on left hand side), locate and select the **Manager** object.



2. In the **Inspector** window (right hand side), find the **Pressable Buttons** script/component, and expand the component via the dropdown button if it is not already expanded.



**Step 5: Select the Patient** 

- 1. Within the Pressable Buttons component, click on Refresh Patient List.
- 2. Choose the target patient by selecting their file name from the refreshed patient list.

#### **Step 6: Prepare the Patient Model**

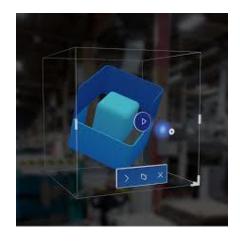
- 1. Identify the main model used for registration (typically the skin model for this use case).
- 2. Set this model as the parent model.
- 3. Check the box next to any model you want to appear opaque.
- 4. Click on **Create Prefab** to generate the prefab with the selected models and configurations.

# Step 7: Prepare HoloLens for Holographic Remoting

1. From the **Start/Home** menu, ensure that the HoloLens is connected to the **HiveHoloLens** network.



- 2. Select the Holographic Remoting Player app.
- 3. You should see a cube in front of you. Press through the center of the cube to launch the app. Note that the cube in the image below is for a different application but will look similar to the one you see.

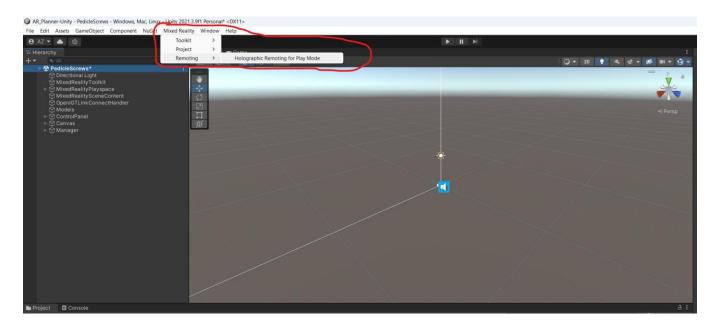


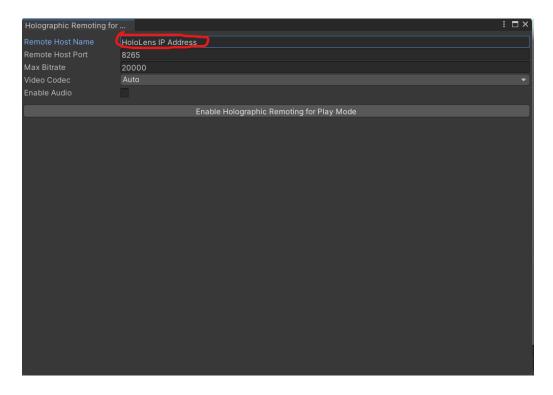
4. Once the app is launched, a window displaying the headset's IP address will appear. Write down this IP address.



Step 8: Configure Unity for Holographic Remoting

- 1. Select the **Mixed Reality** tab from the top toolbar.
- 2. In the **Mixed Reality** menu, choose **Remoting**, then click on **Holographic Remoting** for Play Mode.





- 3. Enter the HoloLens' IP address in the Remote Host Name section.
- 4. Click **Enable Holographic Remoting for Play Mode** if it is not already enabled (the button will say **Disable** if remoting is already enabled), then close the remoting window.

# **Step 9: Start the Holographic Remoting Session**

- 1. Make sure that your computer is connected to the **HiveHoloLens** network!!!!
- 2. In Unity, click **Play** to begin the holographic remoting session.

