

Bandaru Hrithik 17XJ1A0508 Piyush Raj Pandey 17XJ1A0534 Supritha Reddy 17XJ1A0556 Viswa Janith 17XJ1A0565

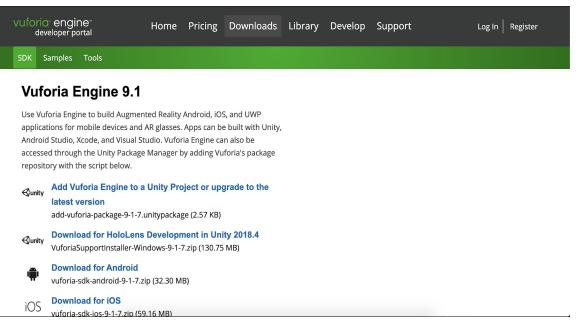
Introduction

What is TimAR?

How is TimAR different from other applications available online right now?

Current limitations of TimAR.

Database and image targets



Vuforia Version We strongly recommend developers to encrypt their key for enhanced security. For more information refer to the article Open Library Article App License Key AcncJqD////AAABmSMzj2eE8k7SqL IY77RjdchreMUDLovh6yK9gwm8dOA Vra+RgtItMm0fbIXw/FOzKvRhKO36/ Add License Delayed Initialization MODE DEFAULT Camera Device Mode Max Simultaneous Tra 1 Max Simultaneous Tra 1 Load Object Targets o Trained Targets Conti ▼ Digital Eyewear Device Type Handheld **▼** Databases Databases will be automatically loaded and activated if its TrackingBehaviour is enabled on scene load. TestDatabase Add Database Disable model extract

8.3.8

What is Vuforia? How do we connect Vuforia and Unity?

Database and the package

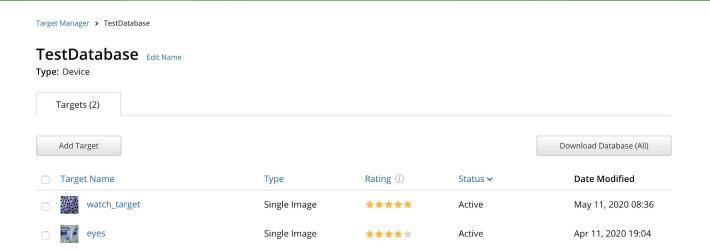
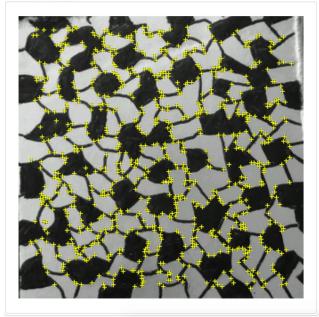




Image Target

Edit Name Remove



Type: Single Image

Status: Active

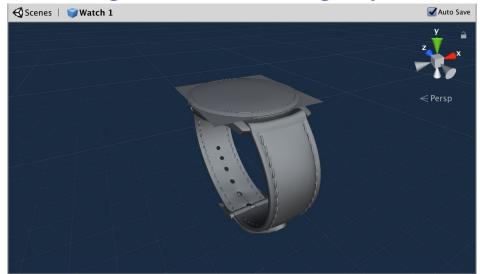
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Augmentable: ***

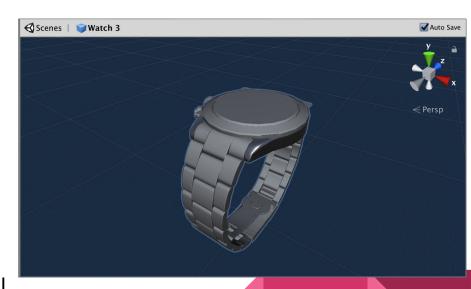
Added: May 11, 2020 08:35 Modified: May 11, 2020 08:36

Update Target Show Features

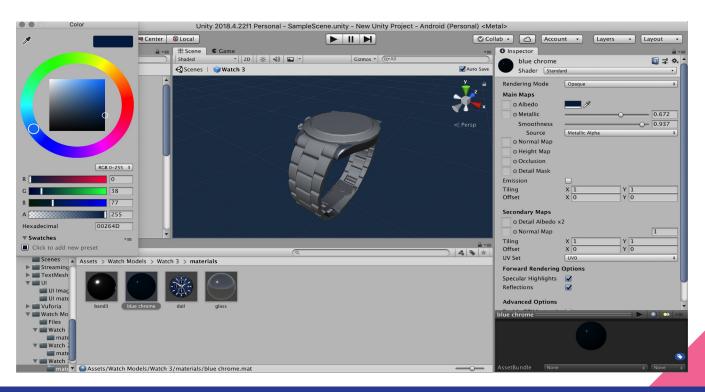
Adding and Setting up Watch Models



A 3D watch models when imported into unity looks like this, all the materials, reflections and textures will be lost.



-We can use any colour and material for the mentioned parts of the watch to make the model.





Created materials can be applied to the different parts watches.

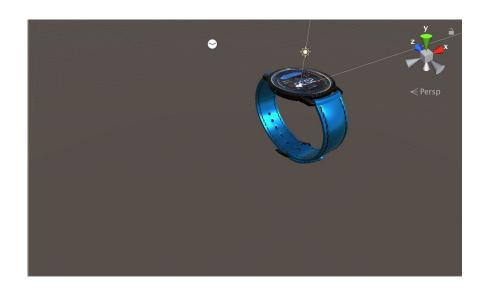


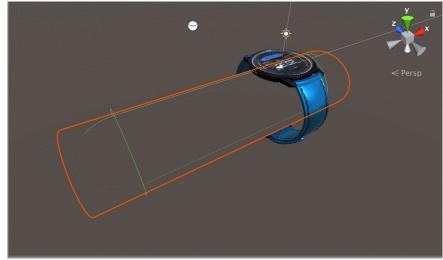






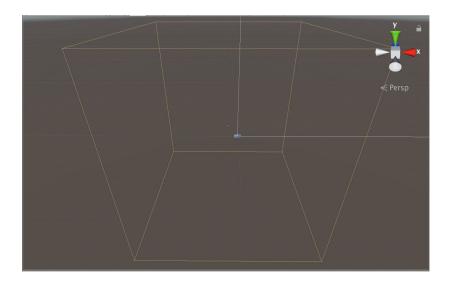
Occlusion





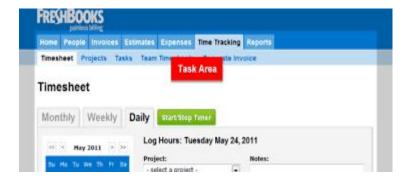
Probe lighting and Reflections





Introduction of UI

- -User interface (UI) design is the process of making interfaces in software or computerized devices with a focus on looks or style.
- -UI design typically refers to graphical user interfaces.
- -The aim is to users find easy to use and pleasurable.



User Interface in UNITY

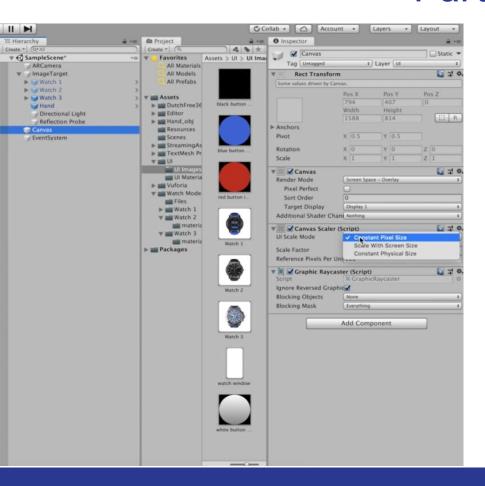
- UI components
- Canvas: The **Canvas** is the area that all UI elements should be inside. The Canvas is a Game Object with a Canvas component on it, and all UI elements must be children of such a Canvas.
- The Canvas has a **Render Mode** setting which can be used to make it render in screen space or world space.

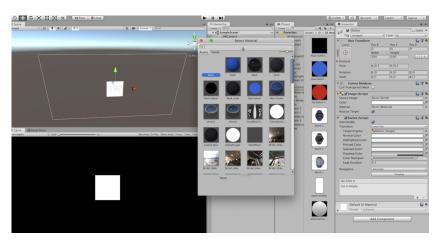
CREATING USER INTERFACE

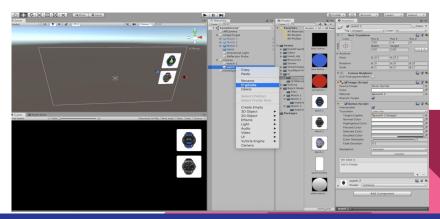




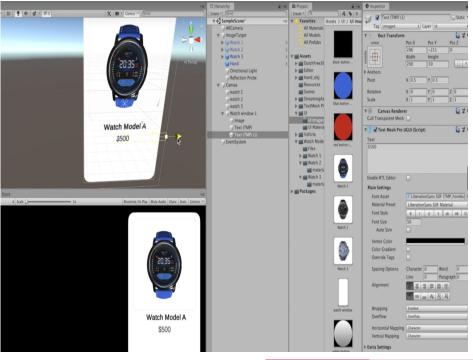
Part 1



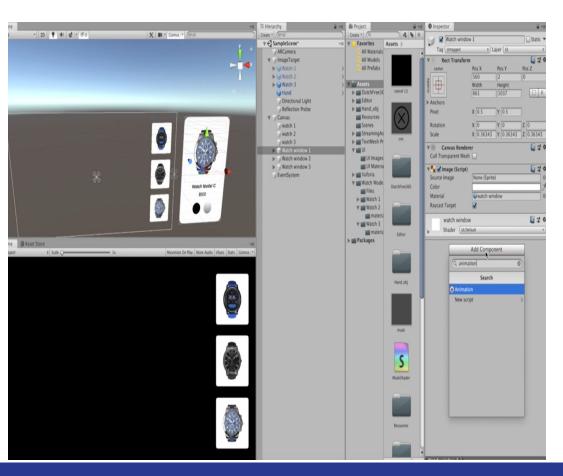


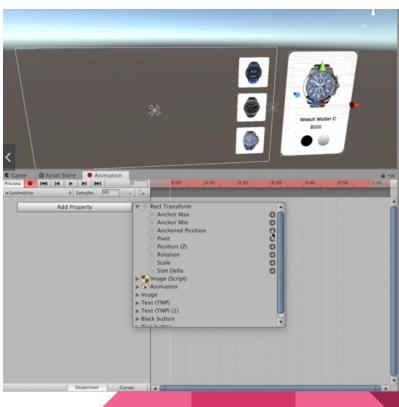






Part 2





C# Scripts
Two Components of Scripting in the program, namely:

Watch Selection



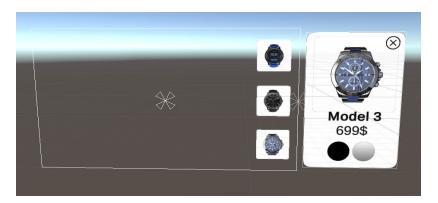
Color Selection

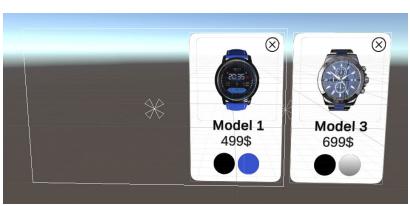






Part 1: Watch Selection



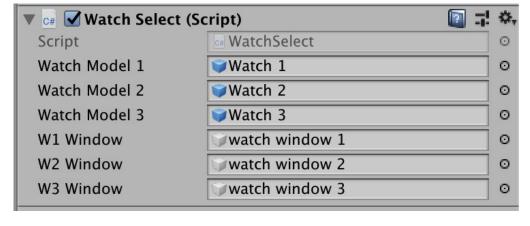


```
public class WatchSelect : MonoBehaviour
{
   public GameObject watchModel1;
   public GameObject watchModel2;
   public GameObject watchModel3;

   public GameObject w1Window;
   public GameObject w2Window;
   public GameObject w3Window;

   Animation w1WindowAnimation;
   Animation w2WindowAnimation;
   Animation w3WindowAnimation;

   void Start()
   {
      w1WindowAnimation = w1Window.GetComponent<Animation>();
      w2WindowAnimation = w2Window.GetComponent<Animation>();
      w3WindowAnimation = w3Window.GetComponent<Animation>();
      w3WindowAnimation = w3Window.GetComponent<Animation>();
   }
}
```



```
ic void watchOneButtonClicked()
   watchModel1.SetActive(true);
   watchModel2.SetActive(false);
   watchModel3.SetActive(false);
   w1WindowAnimation["w1animation"].speed = 1;
   w1WindowAnimation.Play();
oublic void watchTwoButtonClicked()
   watchModel1.SetActive(false);
   watchModel2.SetActive(true);
   watchModel3.SetActive(false);
   w2WindowAnimation["w2animation"].speed = 1;
   w2WindowAnimation.Play();
public void watchThreeButtonClicked()
   watchModel1.SetActive(false);
   watchModel2.SetActive(false);
   watchModel3.SetActive(true);
   w3WindowAnimation["w3animation"].speed = 1;
   w3WindowAnimation.Play();
```

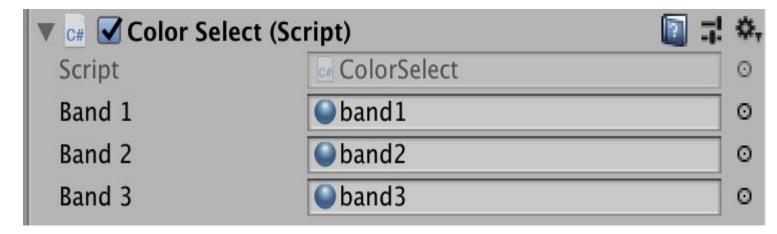
Window Sliding In



```
void CloseButtonClicked()
string buttonName = EventSystem.current.currentSelectedGameObject.name;
if(buttonName == "w1close")
   w1WindowAnimation["w1animation"].speed = -1;
    w1WindowAnimation["w1animation"].time = w1WindowAnimation["w1animation"].length;
    w1WindowAnimation.Play();
else if(buttonName == "w2close")
   w2WindowAnimation["w2animation"].speed = -1;
    w2WindowAnimation["w2animation"].time = w2WindowAnimation["w2animation"].length;
    w2WindowAnimation.Play();
else if(buttonName == "w3close")
    w3WindowAnimation["w3animation"].speed = -1;
    w3WindowAnimation["w3animation"].time = w3WindowAnimation["w3animation"].length;
    w3WindowAnimation.Play();
```

Part 2: Color Selection

```
public class ColorSelect : MonoBehaviour
{
    public Material band1;
    public Material band2;
    public Material band3;
```



```
public void w1ColorSelect()
   string buttonName = EventSystem.current.currentSelectedGameObject.name;
   Color myColor = new Color():
   if(buttonName == "black button")
       print("W1-BLACK");
       ColorUtility.TryParseHtmlString("#000000", out myColor);
       band1.color = myColor;
       print("W1-BLUE");
       ColorUtility.TryParseHtmlString("#0072a1", out myColor);
       band1.color = myColor;
public void w2ColorSelect()
   string buttonName = EventSystem.current.currentSelectedGameObject.name;
   Color myColor = new Color();
    if(buttonName == "black_button")
       ColorUtility.TryParseHtmlString("#000000", out myColor);
       band2.color = myColor;
       ColorUtility.TryParseHtmlString("#740202", out myColor);
       band2.color = myColor;
public void w3ColorSelect()
   string buttonName = EventSystem.current.currentSelectedGameObject.name;
   Color myColor = new Color();
    if(buttonName == "black button")
       ColorUtility.TryParseHtmlString("#464646", out myColor);
       band3.color = myColor;
       ColorUtility.TryParseHtmlString("#6f6c6c", out myColor);
       band3.color = myColor;
```

Code for color selection, for each button





TIME FOR A LIVE DEMONSTRATION

Future Possibilities

- Small World Applications
 - Tatoos
 - Designer Wall Painting
- Bigger Ideas
 - Fully Developed Watch App
 - Furniture
- Final Aim
 - Making a whole new shopping experience with all different kinds of products

THE END