

## LAMPIRAN

### A. SCRIPT

#### 1. Splash Screen

##### a. Kontroler Splash Screen

```
public class splash : MonoBehaviour {  
  
    void Start() {  
        StartCoroutine(Example());  
    }  
  
    IEnumerator Example() {  
        yield return new WaitForSeconds(2);  
        Application.LoadLevel ("loading");  
    }  
}
```

##### b. Kontroler Loading

```
public class loading : MonoBehaviour {  
  
    public Transform LoadingBar;  
  
    [SerializeField] private float currentAmount;  
    [SerializeField] private float speed;  
  
    void Update () {  
        if (currentAmount < 100) {  
            currentAmount += speed * Time.deltaTime;  
            Debug.Log ((int)currentAmount);  
        } else {  
            Application.LoadLevel ("menu_utama");  
        }  
  
        LoadingBar.GetComponent<Image> ().fillAmount = currentAmount  
        / 100;  
    }  
}
```

## 2. Menu Utama

```
public class menu : MonoBehaviour {  
  
    public void GoToMainMenu(){  
        Application.LoadLevel("menu_utama");  
    }  
  
    public void keARKamerakegiatanku(){  
        Application.LoadLevel("animasi");  
    }  
  
    public void ExitApplication(){  
        Application.Quit ();  
    }  
}
```

## 3. AR Kamera

### a. Kontroler Sentuhan

```
Namespace Lean.Touch  
{  
    public class LeanScale : MonoBehaviour  
    {  
        [Tooltip("Ignore fingers with StartedOverGui?")]  
        public bool IgnoreStartedOverGui = true;  
  
        [Tooltip("Ignore fingers with IsOverGui?")]  
        public bool IgnoreIsOverGui;  
  
        [Tooltip("Allows you to force rotation with a specific amount  
of fingers (0 = any)")]  
        public int RequiredFingerCount;  
  
        [Tooltip("Does scaling require an object to be selected?")]  
        public LeanSelectable RequiredSelectable;  
  
        [Tooltip("The camera that will be used to calculate the zoom  
(None = MainCamera)")]  
        public Camera Camera;  
  
        [Tooltip("If you want the mouse wheel to simulate pinching th  
en set the strength of it here")]  
        [Range(-1.0f, 1.0f)]  
        public float WheelSensitivity;  
  
        [Tooltip("Should the scaling be performed relative to the  
finger center?")]  
        public bool Relative;  
  
        [Tooltip("Should the scale value be clamped?")]  
        public bool ScaleClamp;  
  
        [Tooltip("The minimum scale value on all axes")]
```

```

public Vector3 ScaleMin;

[Tooltip("The maximum scale value on all axes")]
public Vector3 ScaleMax;

#if UNITY_EDITOR
protected virtual void Reset()
{
    Start();
}
#endif

protected virtual void Start()
{
    if (RequiredSelectable == null)
    {
        RequiredSelectable = GetComponent<LeanSelectable>();
    }
}

protected virtual void Update()
{
    var fingers = LeanSelectable.GetFingersOrClear(IgnoreStartedOverGui, IgnoreIsOverGui, RequiredFingerCount, RequiredSelectable);

    var pinchScale = LeanGesture.GetPinchScale(fingers, WheelSensitivity);

    if (pinchScale > 0.0f)
    {
        if (Relative == true)
        {
            var pinchScreenCenter = LeanGesture.GetScreenCenter(fingers);

            if (transform is RectTransform)
            {
                TranslateUI(pinchScale, pinchScreenCenter);
            }
            else
            {
                Translate(pinchScale, pinchScreenCenter);
            }
        }

        Scale(transform.localScale * pinchScale);
    }
}

protected virtual void TranslateUI(float pinchScale, Vector2 pinchScreenCenter)
{
    var screenPoint = RectTransformUtility.WorldToScreenPoint(Camera, transform.position);

    screenPoint.x = pinchScreenCenter.x + (screenPoint.x - pinchScreenCenter.x) * pinchScale;
    screenPoint.y = pinchScreenCenter.y + (screenPoint.y - pinchScreenCenter.y) * pinchScale;

    var worldPoint = default(Vector3);

```

```

        if (RectTransformUtility.ScreenPointToWorldPointInRectangle(transform.parent as RectTransform, screenPoint, Camera, out worldPoint) == true)
        {
            transform.position = worldPoint;
        }
    }

    protected virtual void Translate(float pinchScale, Vector2 screenCenter)
    {
        var camera = LeanTouch.GetCamera(Camera, gameObject);

        if (camera != null)
        {
            var screenPosition = camera.WorldToScreenPoint(transform.position);

            screenPosition.x = screenCenter.x + (screenPosition.x - screenCenter.x) * pinchScale;
            screenPosition.y = screenCenter.y + (screenPosition.y - screenCenter.y) * pinchScale;

            transform.position = camera.ScreenToWorldPoint(screenPosition);
        }
    }

    protected virtual void Scale(Vector3 scale)
    {
        if (ScaleClamp == true)
        {
            scale.x = Mathf.Clamp(scale.x, ScaleMin.x, ScaleMax.x);
            scale.y = Mathf.Clamp(scale.y, ScaleMin.y, ScaleMax.y);
            scale.z = Mathf.Clamp(scale.z, ScaleMin.z, ScaleMax.z);
        }

        transform.localScale = scale;
    }
}

```

## b. Panel Deskripsi

```

public class targetData : MonoBehaviour
{
    public Transform Deskripsi;
    public Transform PanelDeskripsi;

    void Update()
    {
        StateManager sm = TrackerManager.Instance.GetStateManager();
    }
}

```



```

IEnumerable<TrackableBehaviour> tbs = sm.GetActiveTrackableBehaviours();

foreach (TrackableBehaviour tb in tbs)
{
    string name = tb.TrackableName;
    ImageTarget it = tb.Trackable as ImageTarget;
    Vector2 size = it.GetSize();

    Debug.Log("Active image target:" + name + " - size: " + size.x + ", " + size.y);

    Deskripsi.gameObject.SetActive(true);
    PanelDeskripsi.gameObject.SetActive(true);

    if(name == "tendangan_luar")
    {
        Deskripsi.GetComponent<Text>().text = "<i>Tendangan Dalam,</i> menggunakan kaki bagian dalam. Teknik menendang bola ini berguna untuk memberikan umpan kepada pemain lain dengan jarak yang cukup jauh atau long passing.";
    }

    if (name == "tendangan_dalam")
    {
        Deskripsi.GetComponent<Text>().text = "<i>Tendangan ujung kaki,</i> teknik ini tidak terlalu sering digunakan oleh para pemain hanya dalam kondisi tertentu saja seperti saat terjepit dan tertekan oleh lawan, serta juga bisa dilakukan saat berhadapan satu lawan satu dengan seorang kiper dari tim lawan.";
    }

    if (name == "tendangan_punggung")
    {
        Deskripsi.GetComponent<Text>().text = "<i>Tendangan punggung kaki,</i> Pada umumnya menendang dengan punggung kaki digunakan untuk menembak ke gawang atau shooting.";
    }

    if (name == "baseball")
    {
        Deskripsi.GetComponent<Text>().text = "<i>Memukul bola,</i> ayunkan pemukul bolamu tepat ke arah bola yang dilempar oleh temanmu. Pegang kuat-kuat, jangan sampai pemukul bolanya terlepas.";
    }

    if (name == "dribble_basket")
    {
        Deskripsi.GetComponent<Text>().text = "<i>Memantulkan bola,</i> untuk memantulkan bola yang perlu kamu lakukan adalah fokus kepada langkah kakimu serta bolanya sehingga bolanya tidak memantul ke arah yang lain.";
    }

    if (name == "melempar_bola")
    {
        Deskripsi.GetComponent<Text>().text = "<i>Melempar bola,</i> fokuslah ke arah temanmu dan lempar bola sekuat-

```

```

kuatnya. Lemparlah bola dengan terarah agar tidak membahayakan dirimu
dan sekitarmu.";
    }
    if (name == "Meroda")
    {
        Deskripsi.GetComponent<Text>().text = "<i>Meroda,
</i> Bertumpulah dengan tangan kananmu lalu ayunkan kakimu ke arah kan-
an. Ajaklah salah satu temanmu untuk membantumu meroda. Ingat ketika
kamu mempraktikannya harus diawasi oleh guru.";
    }

    if (name == "melompat")
    {
        Deskripsi.GetComponent<Text>().text = "<i>Melompa
t,</i> ambilah ancang-
ancang yang cukup kemudian melompatlah. Ketika kamu mendarat gunakanlah
kedua kakimu sebagai tumpuan.";
    }
}
}
}

```

### c. Kontroler utama

```

namespace Vuforia
{
    /// <summary>
    /// A custom handler that implements the ITrackableEventHandler
    interface.
    /// </summary>
    public class DefaultTrackableEventHandler : MonoBehaviour,
        ITrackableEventHandler
    {
        //-----Begin Sound-----
        public AudioSource soundTarget;
        public AudioClip clipTarget;
        private AudioSource[] allAudioSources;

        //function to stop all sounds
        void StopAllAudio()
        {
            allAudioSources = FindObjectsOfType(typeof(AudioSource))
as AudioSource[];
            foreach (AudioSource audioS in allAudioSources)
            {
                audioS.Stop();
            }
        }

        //function to play sound
        void playSound(string ss)
        {
            clipTarget = (AudioClip)Resources.Load(ss);
            soundTarget.clip = clipTarget;
            soundTarget.loop = false;
            soundTarget.playOnAwake = false;
        }
    }
}

```

```

        soundTarget.Play();
    }

//-----End Sound-----

#region PRIVATE_MEMBER_VARIABLES

private TrackableBehaviour mTrackableBehaviour;

#endregion // PRIVATE_MEMBER_VARIABLES

#region UNITY_MONOBEHAVIOUR_METHODS

void Start()
{
    mTrackableBehaviour = GetComponent<TrackableBehaviour>();
    if (mTrackableBehaviour)
    {
        mTrackableBehaviour.RegisterTrackableEventHandler(this);
    }

    //Register / add the AudioSource as object
    soundTarget =
    (AudioSource)gameObject.AddComponent<AudioSource>();
}

#endregion // UNITY_MONOBEHAVIOUR_METHODS

#region PUBLIC_METHODS

/// <summary>
/// Implementation of the ITrackableEventHandler function
called when the
/// tracking state changes.
/// </summary>
public void OnTrackableStateChanged(
    TrackableBehaviour.Status
previousStatus,
    TrackableBehaviour.Status
newStatus)
{
    if (newStatus == TrackableBehaviour.Status.DETECTED ||
        newStatus == TrackableBehaviour.Status.TRACKED ||
        newStatus ==
TrackableBehaviour.Status.EXTENDED_TRACKED)
    {
        OnTrackingFound();
    }
    else
    {
        OnTrackingLost();
    }
}

#endregion // PUBLIC_METHODS

```

```
#region PRIVATE_METHODS

private void OnTrackingFound()
{
    Renderer[] rendererComponents =
    GetComponentInChildren<Renderer>(true);
    Collider[] colliderComponents =
    GetComponentInChildren<Collider>(true);

    // Enable rendering:
    foreach (Renderer component in rendererComponents)
    {
        component.enabled = true;
    }

    // Enable colliders:
    foreach (Collider component in colliderComponents)
    {
        component.enabled = true;
    }

    Debug.Log("Trackable " + mTrackableBehaviour.TrackableName
    + " found");
}
```

II. LAMPIRAN - LAMPIRAN