

이모션티니핑

플레이스토어:

https://play.google.com/store/apps/details?id=com.entereal.emotio nteenieping

ios

https://apps.apple.com/kr/app/%EC%9D%B4%EB%AA%A8%EC%85%98%ED%8B%B0%EB%8B%88%ED%95%91/id6450882377

사용한 스킬

- FireBase Auth
- FireBase Messaging
- FireBase Realtime Database(현재는 사용안함)
- FireBase RemoteConfig
- 뒤끝
- GoogleSignin
- GPGS(현재는 사용안함)
- 인앱결제(안드로이드,ios)
- DotTween
- WebCam



인앱 결제 (뒤끝 영수증 검증)

```
public PurchaseProcessingResult ProcessPurchase(PurchaseEventArgs args)
    GameManager.Instance.UiManager.ActiveIndicatePage(false);
    Debug.LogError("ProcessPurchase");
    BackendReturnObject validation = Backend.Receipt.IsValidateGooglePurchase(args.purchasedProduct.receipt, "receiptDescription", false);
  UNITY_108
    if (validation.lsSuccess())
        if (String, Equals (args, purchased Product, definition, id. Purchase Product Id. String Comparison, Ordinal))
           Debug LogError(string.Format("ProcessPurchase: PASS, Product: "{0}", args.purchasedProduct.definition.id));
            GameManager.Instance.DataManager.BuyCompleteByPurchaser(PurchaseProductId);
           GameManager.Instance.DataManager.SendSaveData(TransactionType.Update, "ProcessPurchase");
        Debug LogError(string.Format("ProcessPurchase: FAIL, Unrecognized product: '{0}'", args.purchasedProduct.definition.id));
    return PurchaseProcessingResult.Complete;
public void TryPurchaseProduct(string id)
     GameManager.Instance.UiManager.ActiveIndicatePage(true);
     if (!IsInitialized())
           Initialize();
     PurchaseProductId = id:
```

BuyProductID(PurchaseProductId);



```
float diff = Mathf.Abs(prevAngle - currentAngle);
if (diff >= halfPieceAngle)

{
    if (isIndicatorOnTheLine)
    {
        audioSource.PlayOneShot(audioSource.clip);
    }
    prevAngle = currentAngle;
    isIndicatorOnTheLine = !isIndicatorOnTheLine;
}

currentAngle = wheelCircle.eulerAngles.z;
})
OnComplete(() =>

_isSpinning = false;
```

.DORotate(targetRotation, spinDuration, RotateMode.FastBeyond360)

.SetEase(Ease.InOutQuart)

if (onSpinEndEvent != null)

onSpinStartEvent = null; onSpinEndEvent = null;

onSpinEndEvent.Invoke(piece);
audioSource.PlayOneShot(endAudioClip);

.OnUpdate(() =>

룰렛기능 BezierCurve

WebCam&티니핑 움직이기

```
WebCamDevice[] devices = WebCamTexture.devices;
   int selectedCameraIndex = -1;
       if (devices[i].isFrontFacing == false)
           selectedCameraIndex = i;
    if (selectedCameraIndex >= 0)
       // 선택된 카메라에 대한 새로운 WebCamTexture를 생성
       textureWebCam = new WebCamTexture(devices[selectedCameraIndex].name);
       // 원하는 FPS를 설정
       if (textureWebCam != null)
           textureWebCam.requestedFPS = 60;
   // objectTarget으로 카메라가 표시되도록 설정
    if (textureWebCam != null)
       renderer.material.mainTexture = textureWebCam;
       renderer.transform.localScale = initialScale;
void BGScale()...
/// WebCamStart
public void OnPlayButtonClick()...
```

public void OnStopButtonClick()...

```
if (Input.GetMouseButton(0))
        Touch touch = Input.GetTouch(0);
        if (!EventSystem.current.lsPointerOverGameObject(touch.fingerId))
            Ray ray = Camera.main.ScreenPointToRay(touch.position);
            int laverMask = LaverMask.GetMask("Deco");
            if (Physics Raycast(ray, out hit, Mathf.Infinity, layerMask))
                Vector3 worldPosition = hit.point;
                Vector3 newPosition = new Vector3(worldPosition.x, worldPosition.y, originz);
                CatchTeenieping.transform.position = newPosition;
                Debug.Log("UI에 터치되었습니다.");
if (Input.touchCount == 2)
    Touch touch1 = Input.GetTouch(0);
    Touch touch2 = Input.GetTouch(1);
    float distance = Vector2.Distance(touch1.position, touch2.position);
    float prevDistance = Vector2.Distance(touch1.position - touch1.deltaPosition, touch2.position - touch2.deltaPosition);
    float deltaDistance = distance - prevDistance;
    float zoomSpeed = 0.005f;
    float scaleFactor = 1.0f + (deltaDistance * zoomSpeed);
    Vector3 currentScale = CatchTeenieping.transform.localScale;
    Vector3 newScale = currentScale * scaleFactor;
   newScale.x = Mathf.Clamp(newScale.x, minScale, maxScale);
   newScale.y = Mathf.Clamp(newScale.y, minScale, maxScale);
   newScale.z = Mathf.Clamp(newScale.z, minScale, maxScale);
   CatchTeenieping.transform.localScale = newScale;
yield return null;
```

```
irebaseApp.CheckAndFixDependenciesAsync().ContinueWith(task =>
   if (task.lsCompleted)
       if (task.Result == DependencyStatus.Available)
           auth = FirebaseAuth.DefaultInstance;
           firebaseConnet = true;
           FirebaseRemoteConfig.DefaultInstance.SetDefaultsAsync(serverKeyValue).ContinueWithOnMainThread(task =>
               FetchData();
           Debug.Log("Could not resolve all Firebase dependencies: " + task.Result.ToString());
       Debug.Log("Dependency check was not completed, Error: " + task.Exception.Message);
void FetchData()
   FirebaseRemoteConfig.DefaultInstance.FetchAsync(TimeSpan.Zero).ContinueWithOnMainThread(fetchTask =>
        if (fetchTask.lsCompleted)
           FirebaseRemoteConfig.DefaultInstance.ActivateAsync().ContinueWithOnMainThread(activateTask =>
               string serverType = FirebaseRemoteConfig.DefaultInstance.GetValue("ServerType").StringValue;
               Debug.Log("ServerType: " + serverType);
                if (serverType == "0" || serverType == "1")
                    DataManager.I.ServerType = (DataManager, Server)int.Parse(serverType);
                isFecth = true;
            1);
           Debug.LogError("Failed to fetch data");
```

FireBase RemoteConfig

GoogleSignIn & 파이어베이스 & 뒤끝연동

```
#region 로그인 & 로그아웃
                                                                                                          void GetLiveData()
                                                                                                              IsGetData = false;
                                                                                                              var bro = Backend.Chart.GetChartListV2();
참조 1개
public void GetData()...
                                                                                                              if (!bro.lsSuccess())
                                                                                                                 Debug.LogError("에러가 발생했습니다: " + bro.ToString());
private void SignInWithGuestLogin()...
                                                                                                              JsonData ison = bro.FlattenRows();
                                                                                                              for (int i = 0; i < ison.Count; i++)
private void SignInWithGoogleOnFirebase()...
                                                                                                                 ChartCardV2 chartCard = new ChartCardV2();
                                                                                                                 chartCard.chartName = json[i]["chartName"].ToString();
/// <param name="task"></param>
                                                                                                                 chartCard.selectedChartFileId = json[i]["selectedChartFileId"].ToString();
                                                                                                                 ChartDatakeyValue[json[i]["chartName"].ToString()] = json[i]["selectedChartFileId"].ToString();
internal void OnAuthenticationFinished(Task<GoogleSignInUser> task)...
                                                                                                              IsGetData = true;
                                                                                                              SetData();
/// <param name="isSuccess"></param>
                                                                                                          public T ChartData≤T≥() where T : class
/// <param name="errorMessage"></param>
/// <param name="token"></param>
                                                                                                             Type type = typeof(T);
                                                                                                             string classname = type.Name;
                                                                                                             string chartId = ChartDatakeyValue[classname];
private void OnGoogleLoginCallback(bool isSuccess, string errorMessage, string token)...
                                                                                                              var bro = Backend.Chart.GetChartContents(chartId);
public void BackendLogin()...
                                                                                                                 Debug.LogError($"(chartid)의 차트를 불러오는 중, 에러가 발생했습니다.: " + bro);
                                                                                                              JsonData ison = bro.FlattenRows();
private void GhestLogin()...
private void Logout()....
                                                                                                                 object myInstance = Activator.CreateInstance(type);
                                                                                                                 foreach (var field in type.GetFields())
/// <param name="_Code"></param>
                                                                                                                    field.SetValue(myInstance, Convert.ChangeType(json[i][field.Name].ToString(), field.FieldType));
/// <param name="_message"></param>
public void CodeCheck(string _Code, string _message)...
                                                                                                             return data;
```

소개 영상:

https://www.youtube.com/watch?v=5jtGv-boAaE

https://www.youtube.com/shorts/qLWoEDDnyAk

BJ 영상:

https://www.youtube.com/watch?v=13VLe-coavs

https://www.youtube.com/watch?v=gFHRfyNiE-s

봐주셔서 감사합니다.

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