



legenda est
Battlezone

❖ Requirement Specification:-

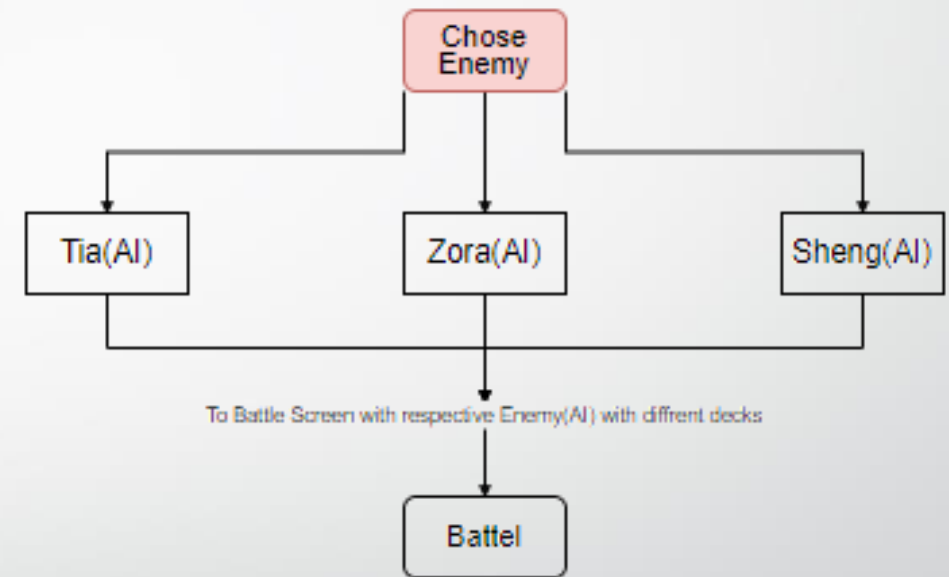
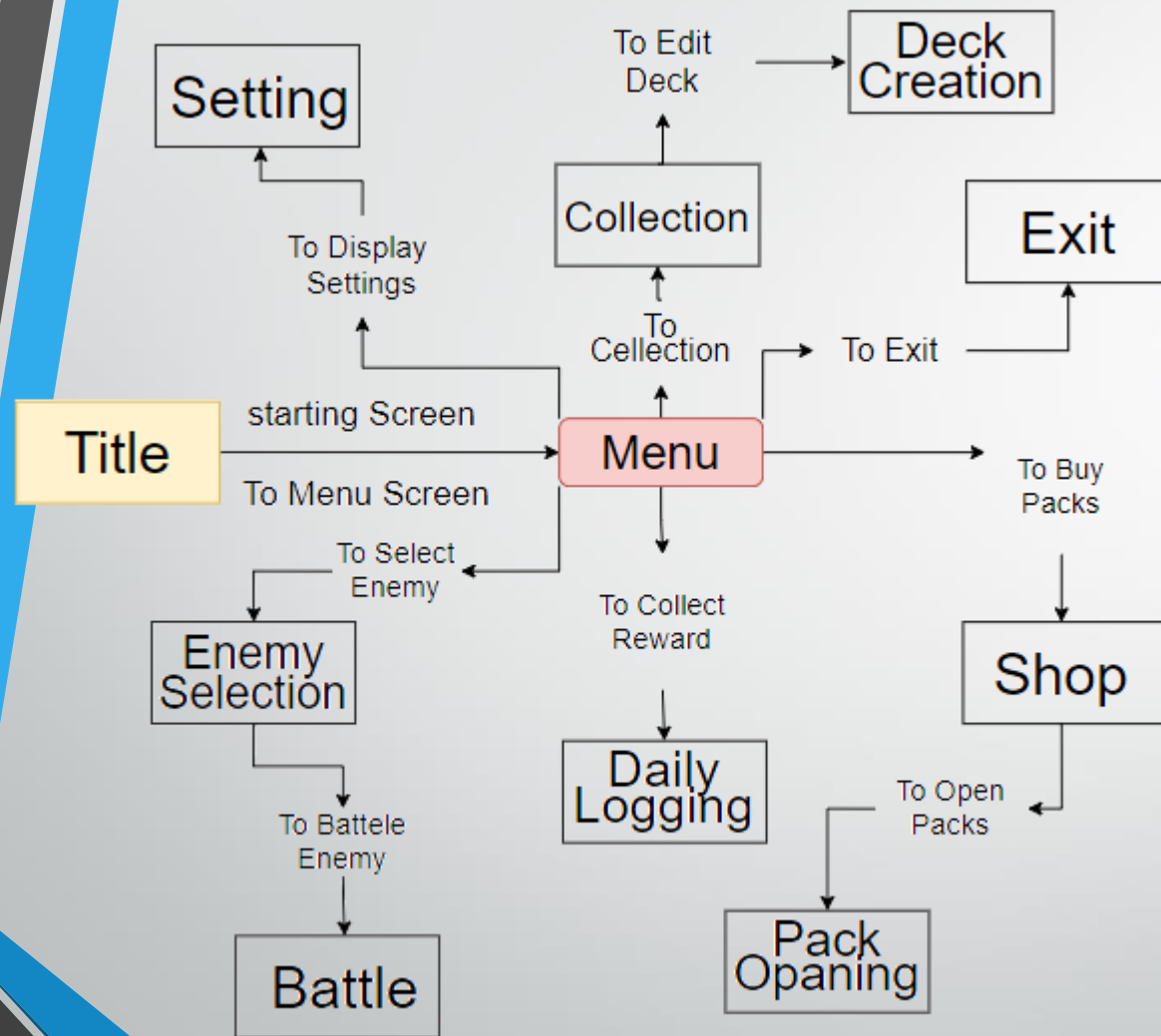
➤ Software

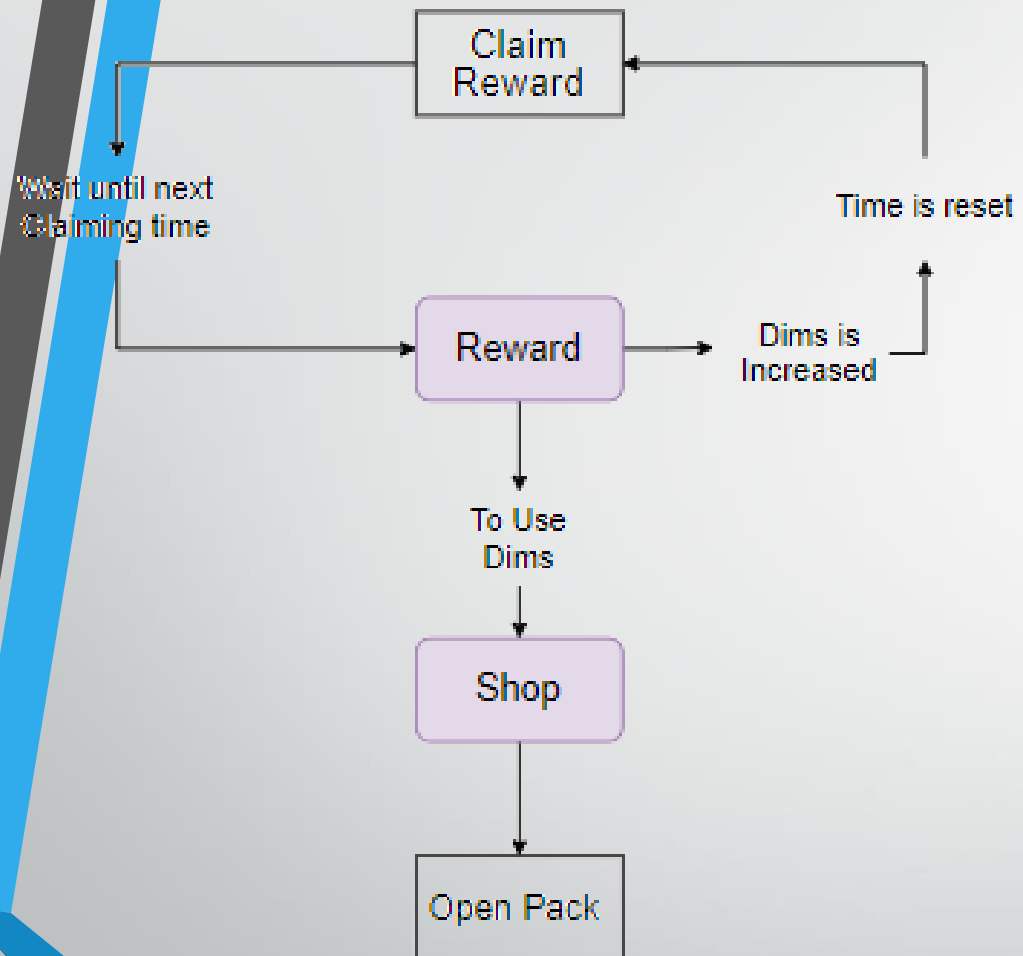
- ✚ Unity Game Engine (2020.3.2f1 Personal 64-bit)
- ✚ Unity Hub
- ✚ Visual studio 2019
- ✚ Android SDK

➤ Hardware

- ✚ Laptop / Pc
- ✚ Processor- AMD Ryzen 5 3600
- ✚ 250GB SSD / 500GB HDD
- ✚ MIN 2GB Graphic Card

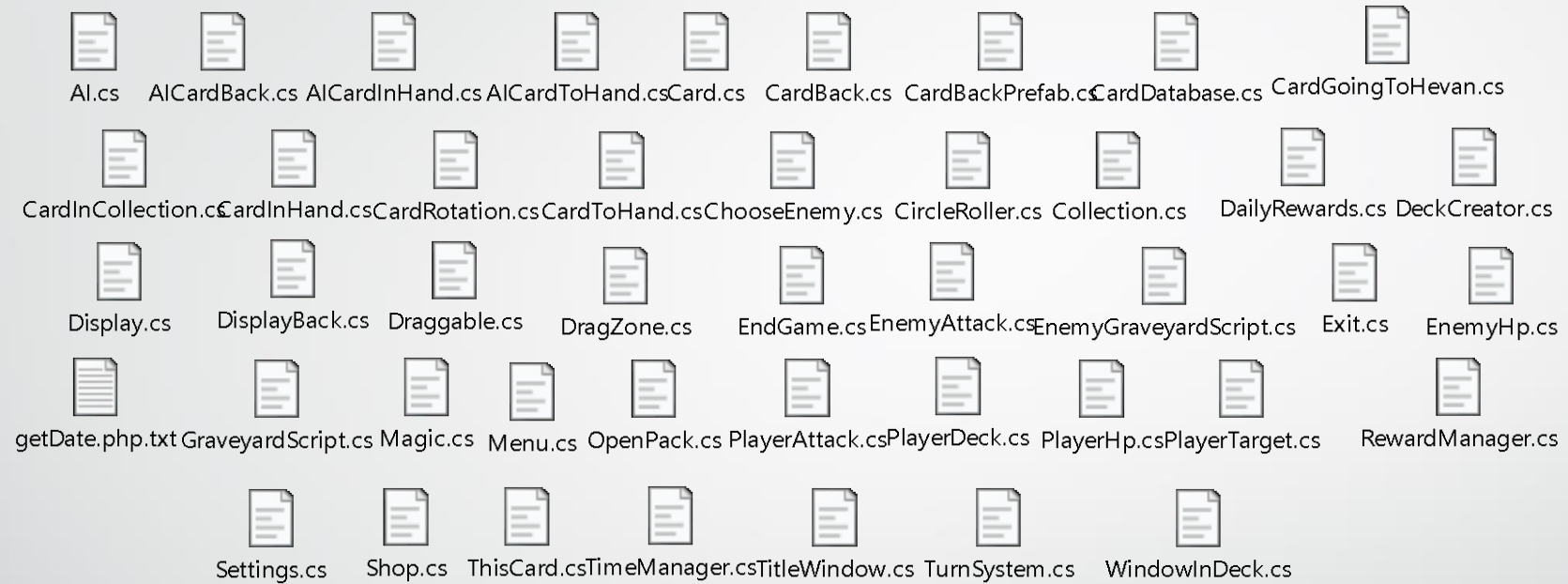
System Design:





❖ System Implementation

✓ Script's



✓ Scene's



✓ Algorithms / Script Methodology

```
if (o==0)
{
    int j=0;
    howManyCards=0;
    foreach (Transform child in Hand.transform)
    {
        howManyCards++;
    }
    foreach (Transform child in Hand.transform)
    {
        cardsInHand[j]=child.GetComponent<AICardToH
and>().thiscard[o];
        j++;
    }
    for (int i = 0; i < 25; i++)
    {
        if (i>=howManyCards)
        {
            cardsInHand[i]=CardDatabase.cardList[o];
        }
    }
    j=0;
}
if (TurnSystem.isYourTurn==false)
{
    for (int i = 0; i < 25; i++)
    {
        if (cardsInHand[i].id !=0)
        {
            if (currentCost>= cardsInHand[i].cardCost)
            {
                AiCanSummon[i]=true;
            }
        }
    }
}
```

```
else
{
    for (int i = 0; i < 25; i++)
    {
        AiCanSummon[i]=false;
    }
}
if (TurnSystem.isYourTurn==false)
{
    drawPhase=true;
}
if (drawPhase==true && summonPhase==false && at
tackPhase==false)
{
    StartCoroutine(WaitFiveSummonPhase());
}
if (TurnSystem.isYourTurn==true)
{
    drawPhase=false;
    summonPhase=false;
    attackPhase=false;
    endPhase=false;
}
if (summonPhase==true)
{
    summonID=0;
    summonThisId=0;
    int index=0;
    for (int i = 0; i < 25; i++)
    {
        cardsID[index]= cardsInHand[i].id;
        index++;
    }
}
```

```
//-----ALGORITHM-----
-----
for (int i = 0; i < 25; i++)
{
    if (cardsID[i]!=0)
    {
        if (cardsID[i]> summonID)
        {
            summonID=cardsID[i];
        }
    }
}
//-----END-----
-----
summonThisId=summonID;
foreach (Transform child in Hand.transform)
{
    if (child.GetComponent<AICardToHand>().id== summo
nThisId && CardDatabase.cardList[summonThisId].cardCost<=
currentCost)
    {
        child.transform.SetParent(Zone.transform);
        TurnSystem.currentEnemyCost-
= CardDatabase.cardList[summonThisId].cardCost;
    }
    summonPhase=false;
    attackPhase=true;
}
```

```

if (o==0)
{
    int k=0;
    int howManyCards2=0;
    foreach (Transform child in Zone.transform)
    {
        howManyCards2++;
    }
    foreach (Transform child in Zone.transform)
    {
        canAttack[k]=child.GetComponent<AICardToHand>().c
anAttack;
        k++;
    }
    for (int i = 0; i < 25; i++)
    {
        if (i>=howManyCards2)
        {
            canAttack[i]=false;
        }
    }
    k=0;
}

```

```

if (o==0)
{
    int l=0;
    int howManyCards3=0;
    foreach (Transform child in Zone.transform)
    {
        howManyCards3++;
    }
    foreach (Transform child in Zone.transform)
    {
        cardsInZone[l]=child.GetComponent<AICardToHand>
().thiscard[o];
        l++;
    }
    for (int i = 0; i < 25; i++)
    {
        if (i>=howManyCards3)
        {
            cardsInHand[i]=CardDatabase.cardList[o];
        }
    }
    l=0;
}

```

```

if (attackPhase==true && endPhase == false)
{
    for (int i = 0; i < 25; i++)
    {
        if (canAttack[i]==true)
        {
            PlayerHp.staticHp-
= cardsInZone[i].cardAttack;
        }
        endPhase=true;
    }
    if (endPhase==true)
    {
        AiEndPhase=true;
    }
}

```


❖ ScreenShots:-



Title Screen

Menu
Screen



Welcome To Shop

Your Dims  70

Buy Card Pack

10

Buy More



Buy More Card Pack at
one time

+ 2 -
Confirm

Pack Opening Screen

Shop Screen





Welcome To Shop

Your Dims  70

Buy Card Pack

10

Buy More



Buy More Card Pack at
one time

+

2

-

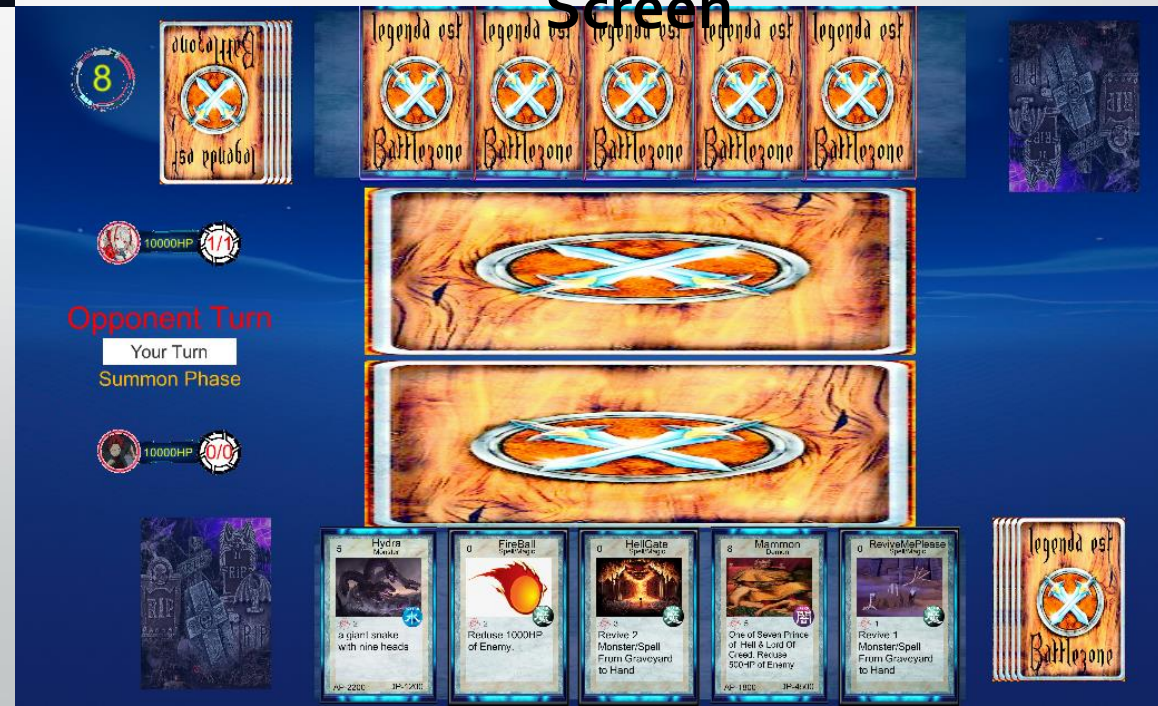
Confirm

Chose Your Opponent



Enemy Selection Screen

Battle Screen



8



10000HP



Opponent Turn

Your Turn

Summon Phase



10000HP





Exit Screen

Reward
Screen



Magic Creation

Exit





Thank You