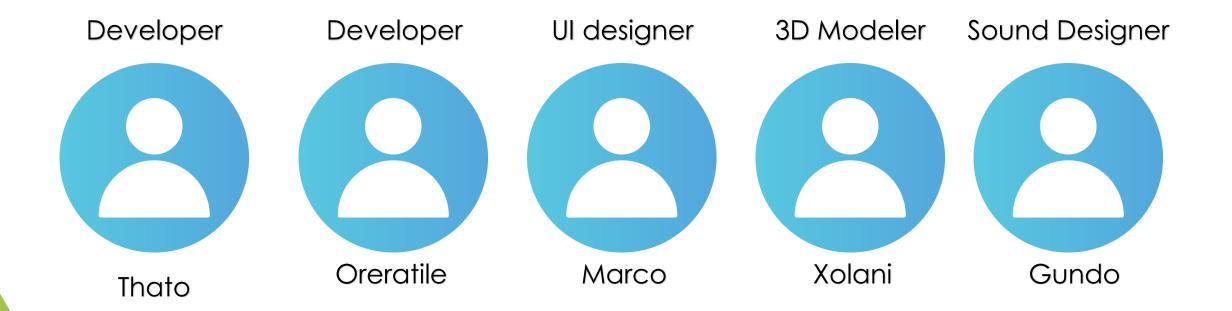
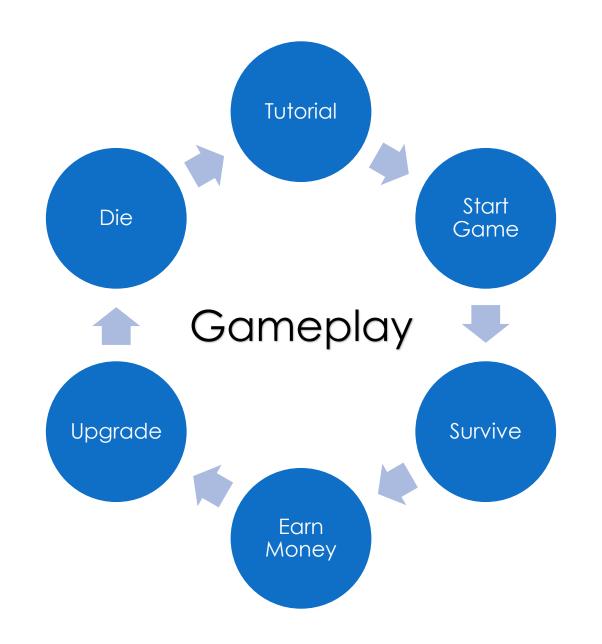


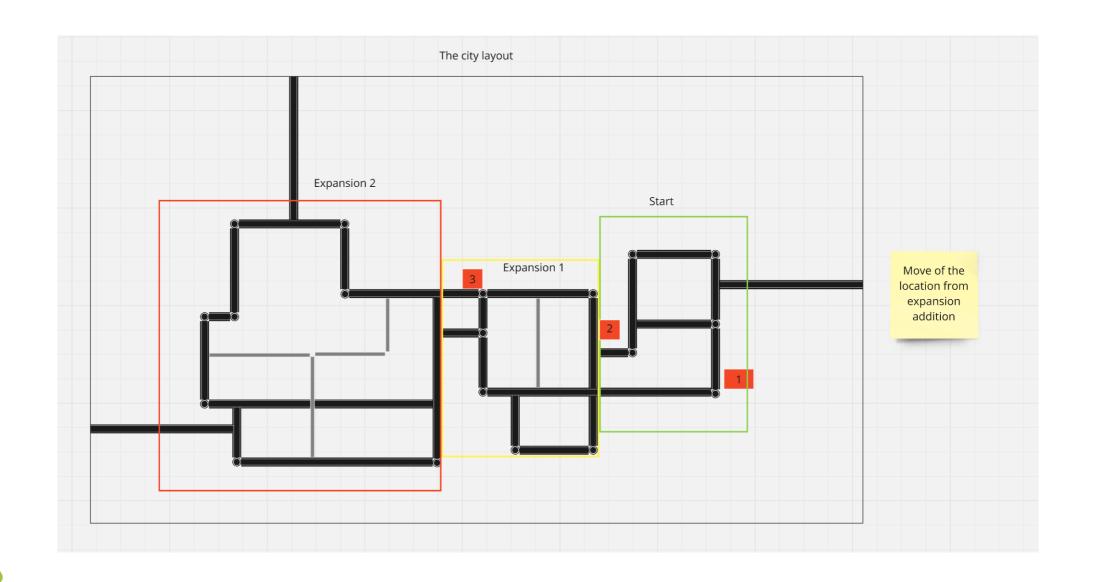
Our Team



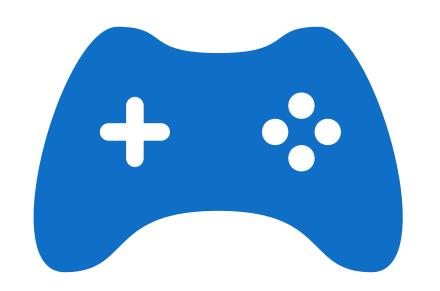
What is Our City Our Water?

Keep the citizens happy Keep the manholes clean





Code



```
public class BuyTruck : MonoBehaviour
    public TruckImageManager TruckImageManager;
    public TMP_Text ButtonText;
    public int TruckCost = 5;
    //Gundo edit
    private void Start()
        ButtonText.text = "Buy Truck: \n" + TruckCost;
    public void BuyNewTruck()
        SRC.instance.ButtonPress();
        if(TruckImageManager.TrucksAvailable < 5)</pre>
            if(GameManager.instance.coins >= TruckCost)
                Spawner.instance.spawnCell(Selecting.Instance.placeholder);
                Station.instance.SendOut(Selecting.Instance.placeholder);
                GameManager.instance.UseCoins(TruckCost);
                GameManager.instance.TruckCount++;
                TruckImageManager.TrucksAvailable++;
                TruckImageManager.TrucksInside++;
                TruckCost += 10;
                ButtonText.text = "Buy Truck: \n" + TruckCost;
                TruckImageManager.ChangeImage();
```

```
public int HappinessMeter = 100;
public float changeSpeed; //Gradual Change in Slider
public List<GameObject> ManHolesList = new List<GameObject>();
public static SliderManager instance;
private void Awake()
   instance = this;
void Update()
   HappinessCalculationAndMeterUpdater();
public void addManHoleToList(GameObject manHole)
   ManHolesList.Add(manHole);
void HappinessCalculationAndMeterUpdater()
   int avg = 0;
    for (int i = 0; i < ManHolesList.Count; i++)
       avg += (int)ManHolesList[i].GetComponent<ManHoles>().damageMeter;
   avg /= ManHolesList.Count;
   HappinessMeter = avg;
   HappinessMeterSlider.value = Mathf.MoveTowards(HappinessMeterSlider.value, HappinessMeter,changeSpeed * Time.deltaTime);
    if (HappinessMeter > 70)
       moodIndicatorImage.sprite = happy;
       fillColour.color = Color.green;
   else if (HappinessMeter >= 40)
       moodIndicatorImage.sprite = moderate;
       fillColour.color = Color.yellow;
   else if (HappinessMeter < 40)
       moodIndicatorImage.sprite = angry;
       fillColour.color = Color.red;
```

```
oublic class TruckImageManager : MonoBehaviour
  public static TruckImageManager instance;
  //Truck Image List
  public List<GameObject> Trucks = new List<GameObject>();
  //White - When the truck is inside the building
   [SerializeField] Sprite WhiteTruck;
  [SerializeField] Sprite GrayTruck;
  public int TrucksAvailable:
  public int TrucksOutside;
  public int TrucksInside;
  private void Awake()
      instance = this;
   public void ChangeImage()
      if(TrucksAvailable == 1)
          Trucks[0].GetComponent<Image>().sprite = WhiteTruck;
      else if(TrucksAvailable == 2)
           Trucks[1].GetComponent<Image>().sprite = WhiteTruck;
      else if(TrucksAvailable == 3)
           Trucks[2].GetComponent<Image>().sprite = WhiteTruck;
       else if (TrucksAvailable == 4)
           Trucks[3].GetComponent<Image>().sprite = WhiteTruck;
       else if (TrucksAvailable == 5)
           Trucks[4].GetComponent<Image>().sprite = WhiteTruck;
```

```
public GameObject target;
NavMeshAgent agent;
GameObject station;
GameObject truckDisplay;
[SerializeField] Sprite whiteTruck, GreyTruck;
[SerializeField] float repairTime;
float repairTimeReset;
    agent = GetComponent<NavMeshAgent>();
    station = this.transform.parent.gameObject;
    repairTimeReset = repairTime;
    LinkToImage();
     if(target != null)
        truckDisplay.GetComponent<Image>().sprite = GreyTruck;
        agent.destination = target.transform.position;
         if (Vector3.Distance(transform.position, target.transform.position) <= 2)
            repairTime -= Time.deltaTime;
            if(repairTime <= 0)
                target.GetComponent<ManHoles>().RepairManHole();
                repairTime = repairTimeReset;
                target = null;
     if(target == null)
        agent.destination = station.transform.position;
         if(Vector3.Distance(transform.position, transform.parent.position) <= 2)
            Station.instance.lineUp(gameObject);
            truckDisplay.GetComponent<Image>().sprite = whiteTruck;
gameObject.SetActive(false);
```

```
void LinkToImage()
{
    if(GameManager.instance.TruckCount == 1)
    {
        truckDisplay = GameObject.FindGameObjectWithTag("Image1");
    }
    else if (GameManager.instance.TruckCount == 2)
    {
        truckDisplay = GameObject.FindGameObjectWithTag("Image2");
    }
    else if (GameManager.instance.TruckCount == 3)
    {
        truckDisplay = GameObject.FindGameObjectWithTag("Image3");
    }
    else if (GameManager.instance.TruckCount == 4)
    {
        truckDisplay = GameObject.FindGameObjectWithTag("Image4");
    }
    else if (GameManager.instance.TruckCount == 5)
    {
        truckDisplay = GameObject.FindGameObjectWithTag("Image5");
    }
}
```

```
void Start()
   upgradeCost = 2;
   RepairCost = 1;
   damageMeterSlider = gameObject.transform.GetChild(0).gameObject.transform.GetChild(0).GetComponent<Slider>();
   viewCanvas = gameObject.transform.GetChild(0).GetComponent<Canvas>();
   GameManager.instance.population += 200;
   SliderManager.instance.addManHoleToList(gameObject);
void Update()
   DamageMeterUpdater();
   if(degrade == true && damageMeter > 0)
       StartCoroutine(manHoleDeterioration());
       degrade = false;
   if(damageMeter < 0)
       damageMeter = 0;
void DamageMeterUpdater()
   viewCanvas.transform.LookAt(Camera.main.transform);
   damageMeterSlider.value = damageMeter;
IEnumerator manHoleDeterioration()
   yield return new WaitForSeconds(degradeRate);
   damageMeter -= wearAndTear;
   degrade = true;
public void RepairManHole()
   damageMeter = 100f;
   StopCoroutine(manHoleDeterioration());
   degrade = true;
   //give player Money after repair
   GameManager.instance.coins += (int)repairReward;
public void UpgradeManHole()
   GameManager.instance.UseCoins(upgradeCost);
   manHoleLevel++;
   degradeRate += 3;
   if(wearAndTear > 3)
       wearAndTear -= 1;
   RepairCost += 3;
```

```
Public class ExpantionControler : MonoBehaviour

{
    [SerializeField] List<GameObject > Areas = new List<GameObject>();
    [SerializeField] GameObject stationMovePoint1, stationMovePoint2;
    [SerializeField] GameObject truckStation;
    Vector3 offset = new Vector3(0, 0.5f, 0);
    // Update is called once per frame
    void Update()
    {
        if(GameManager.instance.population >= 3000)
        {
            Areas[0].gameObject.SetActive(true);
            truckStation.transform.position = stationMovePoint1.transform.position + offset;
        }
        if (GameManager.instance.population >= 6000)
        {
            Areas[1].gameObject.SetActive(true);
            truckStation.transform.position = stationMovePoint2.transform.position + offset;
        }
}
```

3D Art

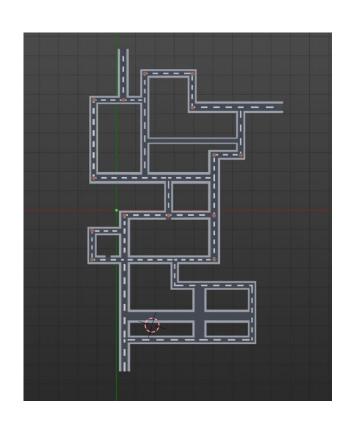
The City

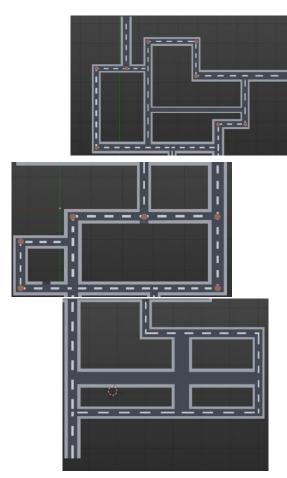




3D Low Poly Objects

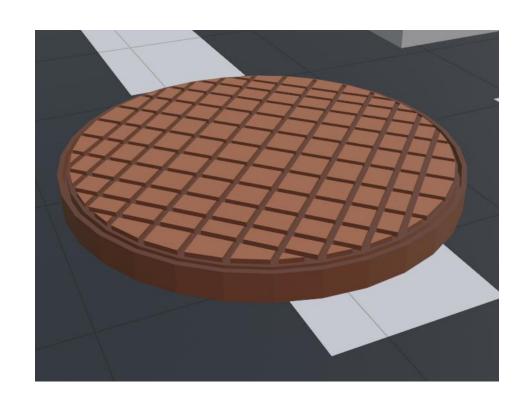
The Layout





- Player Engagement
- Expansion Design
- Areas

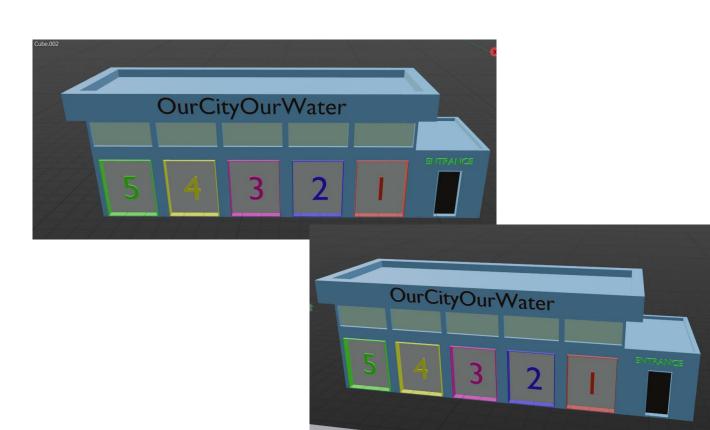
Manholes



- The problem
- Happiness influencer
- Multiple in number

OurCityOurWater Building

- Player Visualisation
- Spawn for trucks
- Colour Scheme
- Relocation



Truck

- The Solution
- Player Character
- Total of five
- Upgradeable

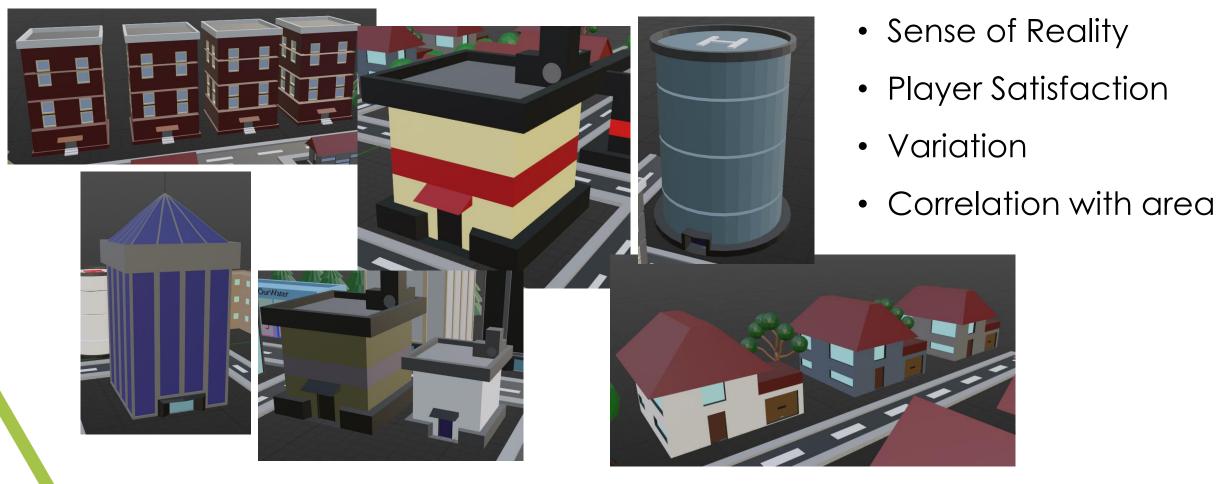


Buildings

- Sense of Reality
- Player Satisfaction
- Variation
- Correlation with area



Buildings



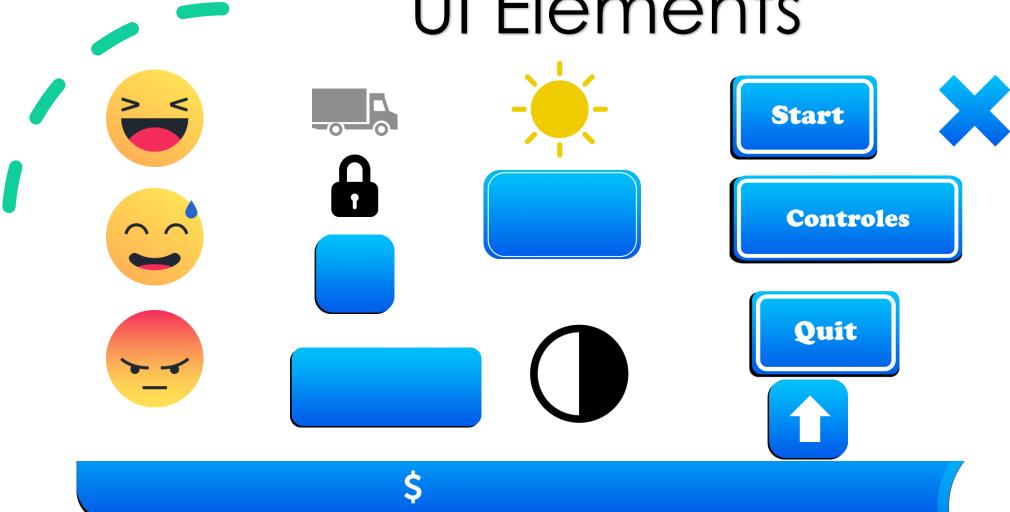
Foliage



- Creative Decision
- Visualisation for players

User Interface

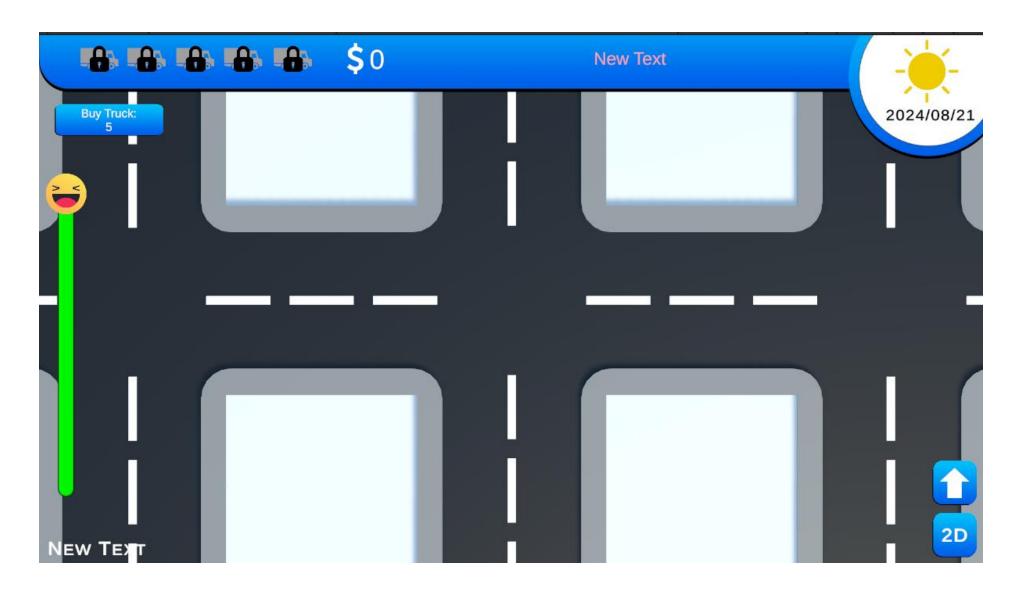
UI Elements

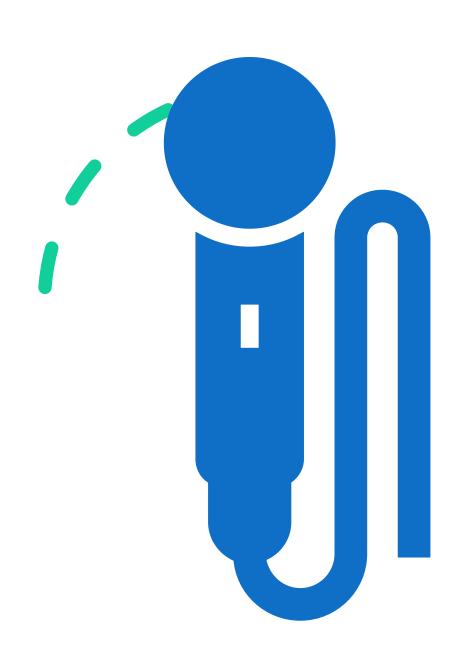


<u>Main Menu</u>



Game Scene

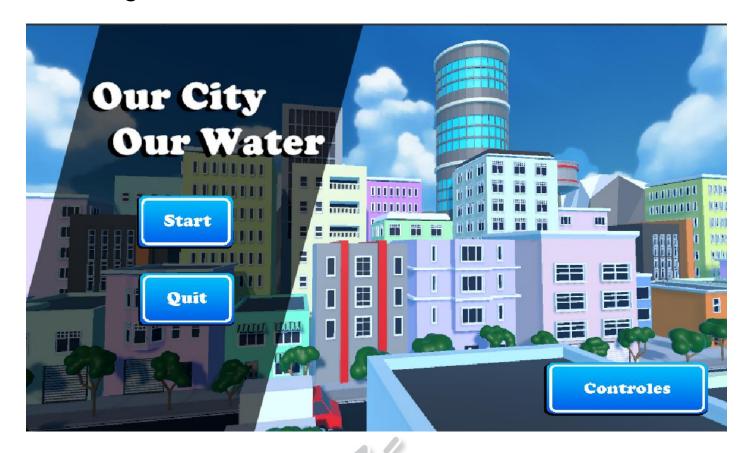




Audio

Music And Sound Effects

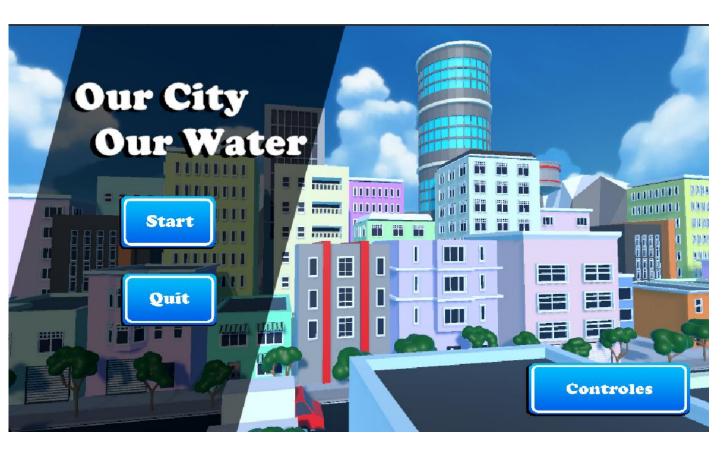
Background: Main Menu



Button Click: Main menu and Gamplay

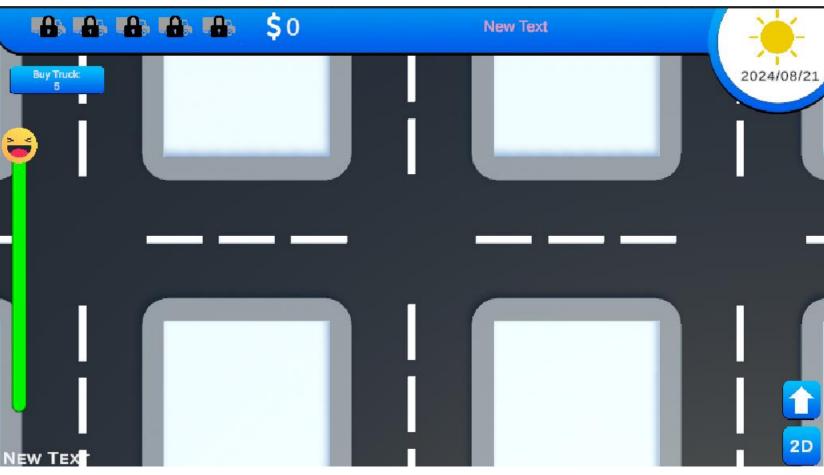






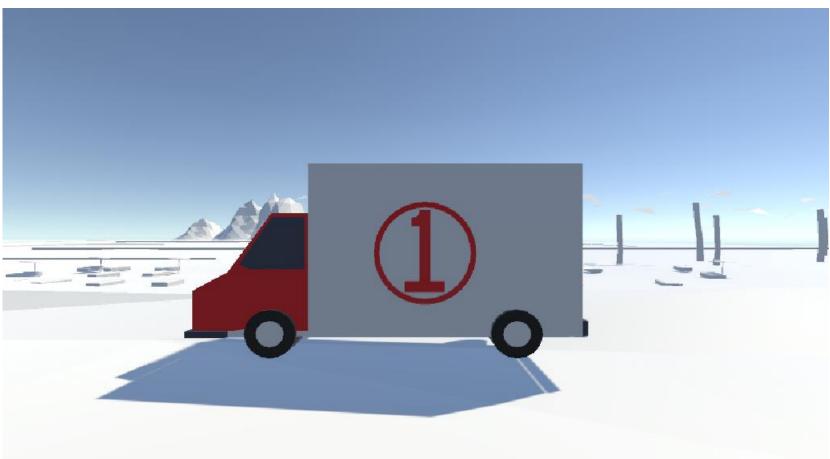
Background: Gameplay





Gameplay: Truck Noise





What we are asking for:

Thank you for listening