

CRITTER CLASH Team 2: CRITTIUM

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*Formally: Erik Games





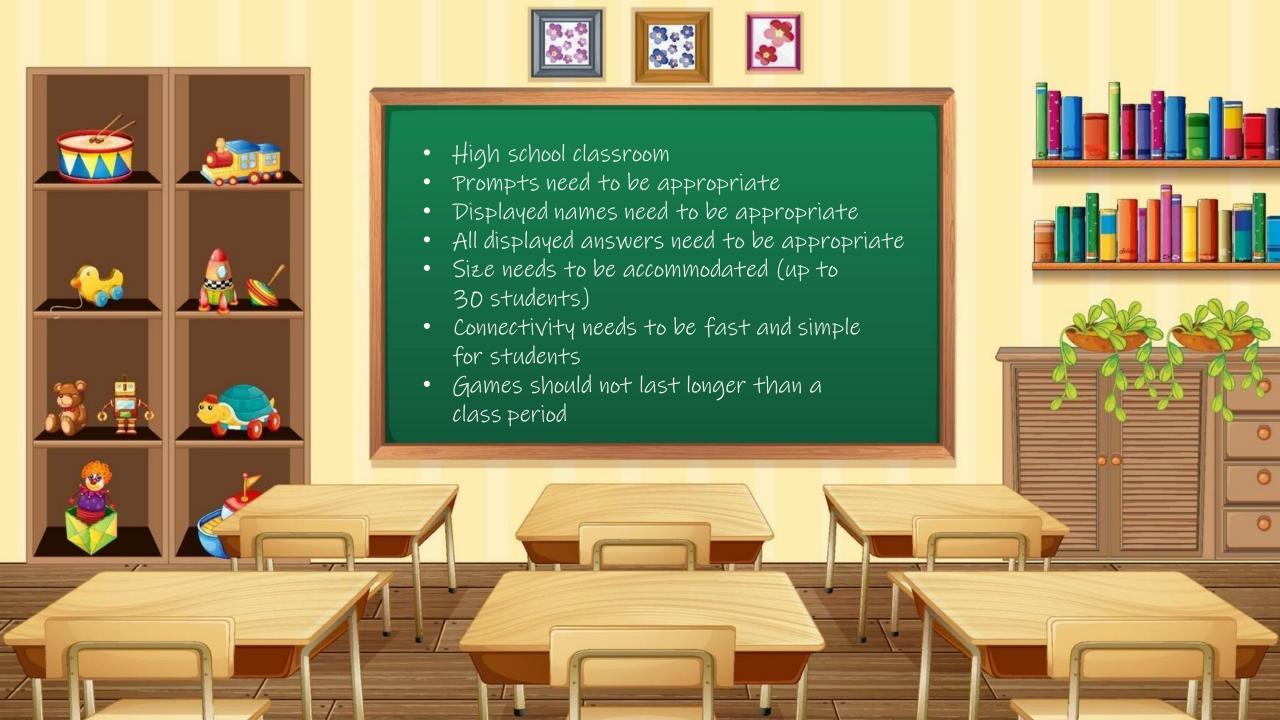
WHAT IS CRITTER CLASH?

A fun, interactive, and engaging solution that aims to make argumentative writing more entertaining for students and teachers alike. Critter Clash is an assortment of games that each have their own specific purpose in introducing and expanding on essential argumentative writing skills while maintaining a fun and open environment within the classroom.



REQUIREMENTS LIST

- R1. There will be a feature that allows the host to disqualify answers.
- R2. Players will be able to choose their usernames.
- R3. There will be a filter on usernames that doesn't allow inappropriate language.
- R4. Players will be able to connect to the host's game through their phone.
- R5. There will be 3-5 minigames that the host can choose from.
- R6. There will be a scoreboard that is displayed, which will keep track of which player is winning.



PROJECT SOLUTION APPROACH



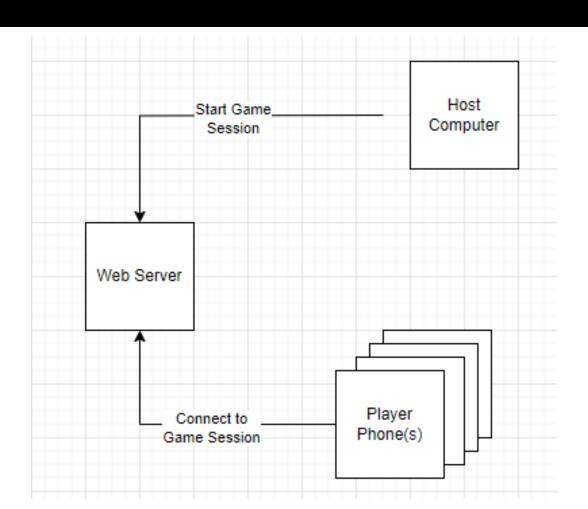




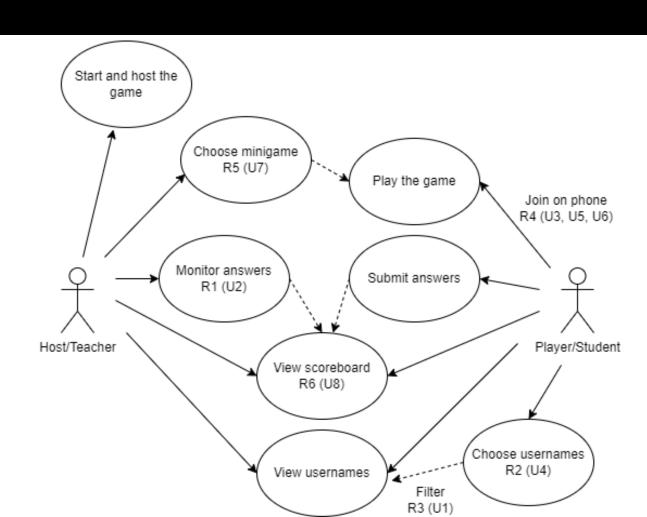
- Start by using Unity's Game Engine to develop the game itself.
- After a lot of head scratching, we decided to base our game on the popular "Jackbox Games"
- We want to keep argumentative writing as the main theme and implement those fundamentals into each game.



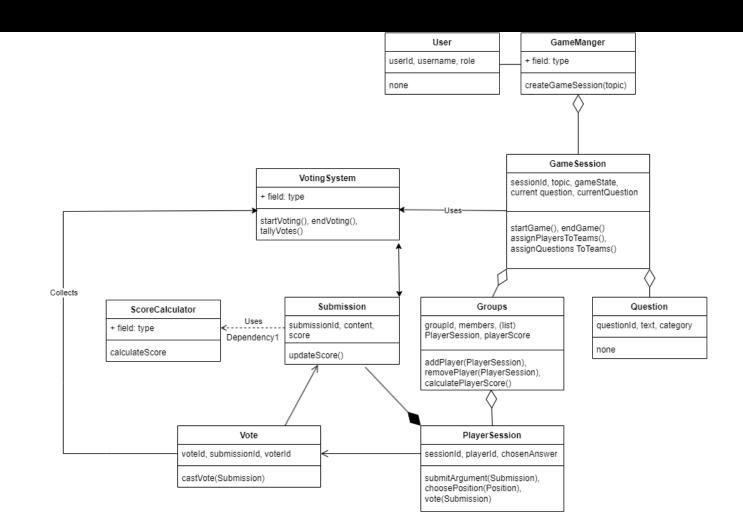
SYSTEM ARCHITECTURE DIAGRAM



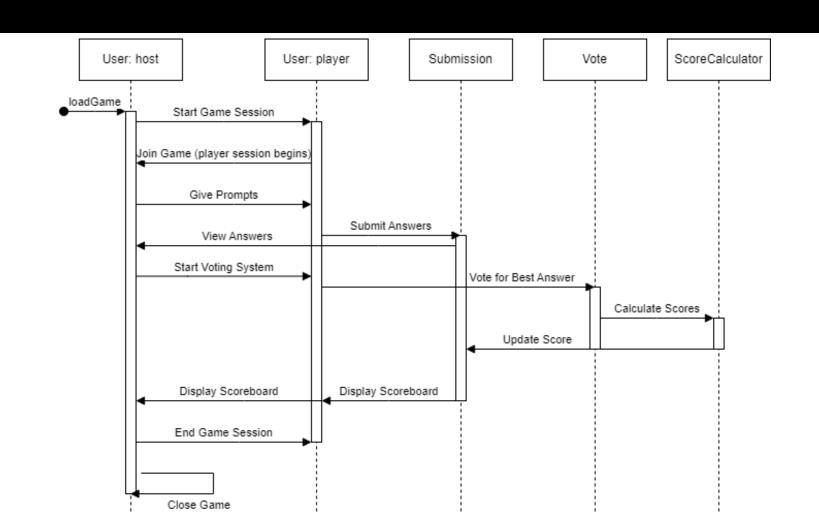
USE CASE MODELING



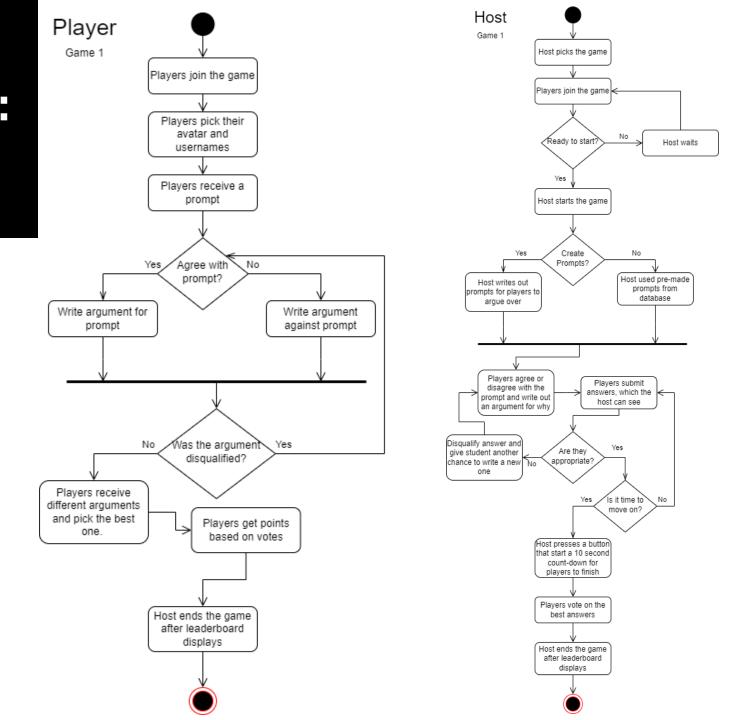
STRUCTURAL MODELING: CLASS DIAGRAM



BEHAVIORAL MODELING: SEQUENCE DIAGRAM

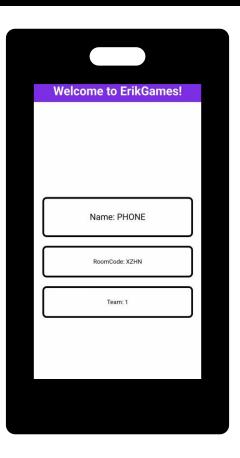


BEHAVIORAL MODELING: ACTIVITY DIAGRAM



SCREENSHOTS (FRONTEND)





[HACKBOX]

- A Unity Package that allows for its users to implement their own Jackbox-style games in Unity.
- Connects players to Unity projects via Hackbox.ca and allows both parties (host and players) to interact with one another.



SCREENSHOTS (CODE)

```
3 references | Changed by curtisjmethon@gmail.com on Thursday, May 16, 2024
public void PresentationLoop() //loops through the presentation for the player that is presenting
     if(stage == 0)
        Player p = pm.GetPlayerByG3Prompt(prompts[pointer]);
        playerPresenting = p;
        PresentationSetUp(p.GetG3Prompt(), p);
     else if(stage == 1)
        promptTextGO.SetActive(true);
      lse if(stage == 2)
        promptNameGO.SetActive(true);
     lse if(stage == 3)
        promptDescGO.SetActive(true);
        e if(stage == 4)
        promptImageGO.GetComponent<Image>().sprite = playerPresenting.GetG3Prompt().GetImage();
        promptImageGO.SetActive(true);
        next = true;
         if(stage == 5)
        nextButton.SetActive(true);
```

```
4 references | Changed by alymac321@gmail.com on Friday, May 31, 2024 public void GameLoop()
     (isNight)
      dayNight = "It is Night" + day + "!";
      hc.GameTwoManager(null);
      onStart = false;
      UpdateReason("voting", null);
      isVotingToElect = true
      hc.GameTwoManager(null)
                                                                                                            onStart = false;
                                                                                                                   C# CritterAnimation.cs
                                                                                                                   C# DisqualifyAnswer.cs
         hc.UpdateAfterNight(); //Do the things
         hc.haveVoted = 0; //reset votes from last night
                                                                                                                     forbidden_words.txt
         dayNight = "It is Day" + day + "!";
         playerElected = null;
                                                                                                                   C# GameOneManager.cs
                                                                                                                    C# GameThreeManager.cs
                                                                                                                     C# GameTwoManager.cs
             Player pl = geese[0].GetOpponent();
             pl.SetIsYammed(true);
                                                                                                                     C# HostController.cs
             arePlaying.Remove(pl);
             hc.arePlaying.Remove(pl.GetMember());
                                                                                                                    C# LeaderBoardManager.cs
             yammedPlayers.Add(pl);
             hc.areYammed.Add(pl.GetMember());
                                                                                                                     C# MenuManager.cs
             PlayExileClip(pl);
             UpdateReason("geese", geese[0]);
                                                                                                                    C# NameCheck.cs
               (pl.GetRole() == "Goose")
                                                                                                                      new_names.txt
                 geese.Remove(pl);
                 hc.geese.Remove(pl.GetMember());
                                                                                                                    C# PlayAudio.cs
                                                                                                                     C# Player.cs
                                                                                                                     C# PlayerManager.cs
                                                    → 😘 GameTwoManager
                     (pl.GetRole() == "Mouse"
                                                                                                                     C# Product.cs
                 mice.Remove(pl);
hc.mice.Remove(pl.GetMember());
                                                                                                                     C# Prompt.cs
                  if (pl.GetRole() == "Dog")
                                                                                                                    C# QuitScript.cs
                  dogs.Remove(pl);
                                                                                                                     C# RoomManager.cs
                 hc.dogs.Remove(pl.GetMember());
                                                                                                                    C# SceneLoader.cs
                se if (pl.GetRole() == "Pig")
                 pigs.Remove(pl);
                                                                                                                     C# SceneLoaderCallback.cs
                 hc.pigs.Remove(pl.GetMember());
                                                                                                                    C# ScoreSystem.cs
                 e if (pl.GetRole() == "Critter")
                                                                                                                    C# SettingsManager.cs
                 critters.Remove(pl);
                 hc.critters.Remove(pl.GetMember());
                                                                                                                     C# StyleChanger.cs
                                                                                                                    C# Timer.cs
                                                                                                                   C# WobblyText.cs
           reason = "";
           OnPlayPressed():
           //Need the Ready button again so that people can read what happened on their phones and such
          isSilenced = null;
           UpdateReason("voting", null);
           isVotingToElect = true;
```

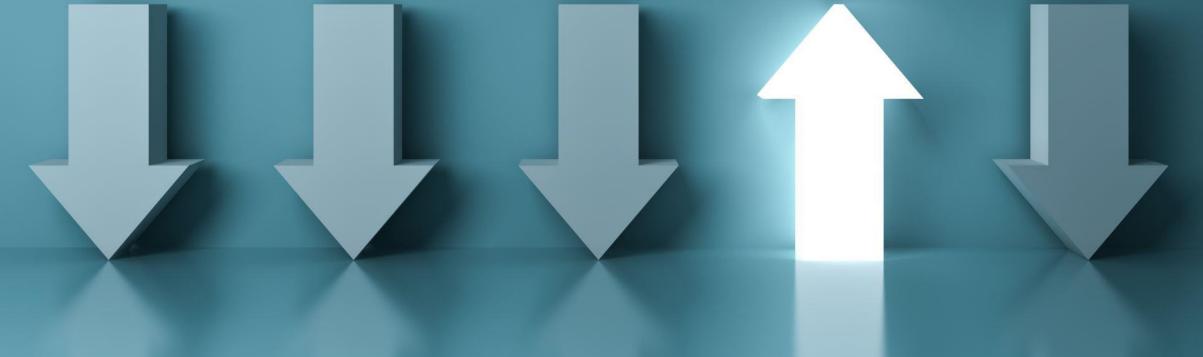
DEMO VIDEOS (HYPERLINKS)

- Counterpoint
- Coup de Critter
- Priceless Persuasion

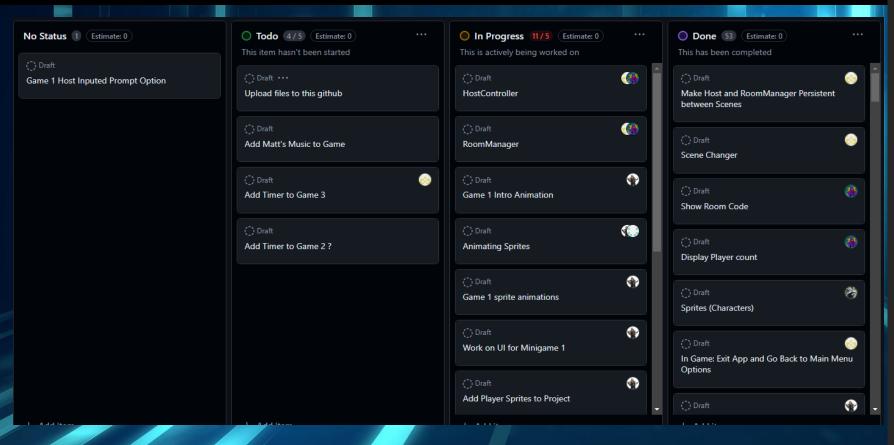
CONCLUSION

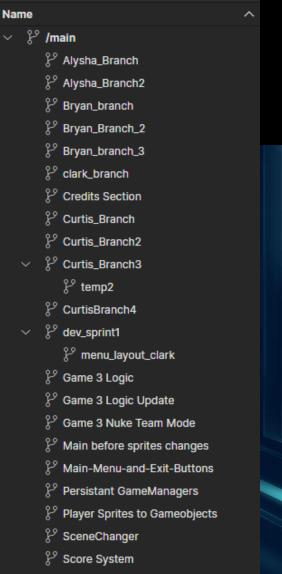






GITHUB





REFERENCES



