

Introduction







INTRODUCTION

Trouble Maker is a 1v1 competitive turn-based strategy game that takes place in a hedge maze, where one player (the Challenger) needs to find their way out of the maze, while the other player (the Controller) tries to stop him.

Novel idea:

- the entire game experience of the Challenger depends on the Controller.
- Combines a battle game and a maze game with a card game.

Novel technology:

- Networking
- Evaluating Unity's new Netcode for GameObjects package



DEMO

https://youtu.be/0jfhUdDE1WY



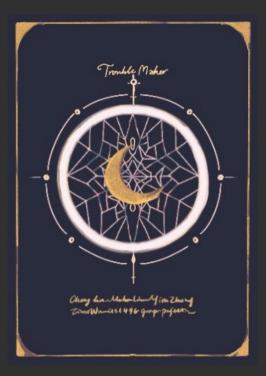
GAME DESCRIPTION

- Trouble Maker is a ten-minute turnbased game.
- In each round, players get random cards with different features. They can apply them in their turns.
- The Controller wants to stop the Challenger from going to the final point, and the Challenger wants to get out of the maze.

• Both players get 10 seconds in each turn to either move or apply cards.







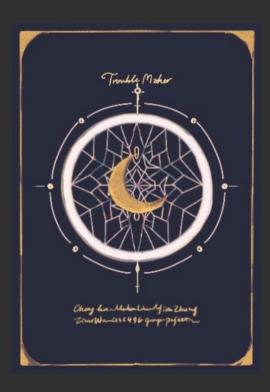






















Evaluation





Evaluation

Test Design

Testers:

- Roommates
 - 2 with PC game experience
 - 2 without PC game experience

Process:

Set up the game for the testers and tell them the instructions verbally.

Aim:

- Test with people who are not familar with our game
- collect feedbacks from them
 - see if they can understand the basic game rules
 - o see if they think the game idea is fun
 - find parts that need to be fixed



Evaluation

Comments from Testers

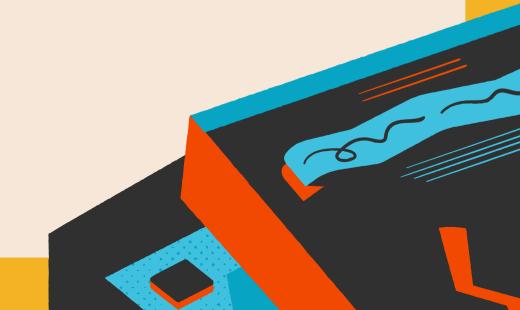
The Controllers' Feedback

- 1. have no clue how to play the game
- 2. cannot find the Challenger
- 3. lack of instructions

The Challengers' Feedback

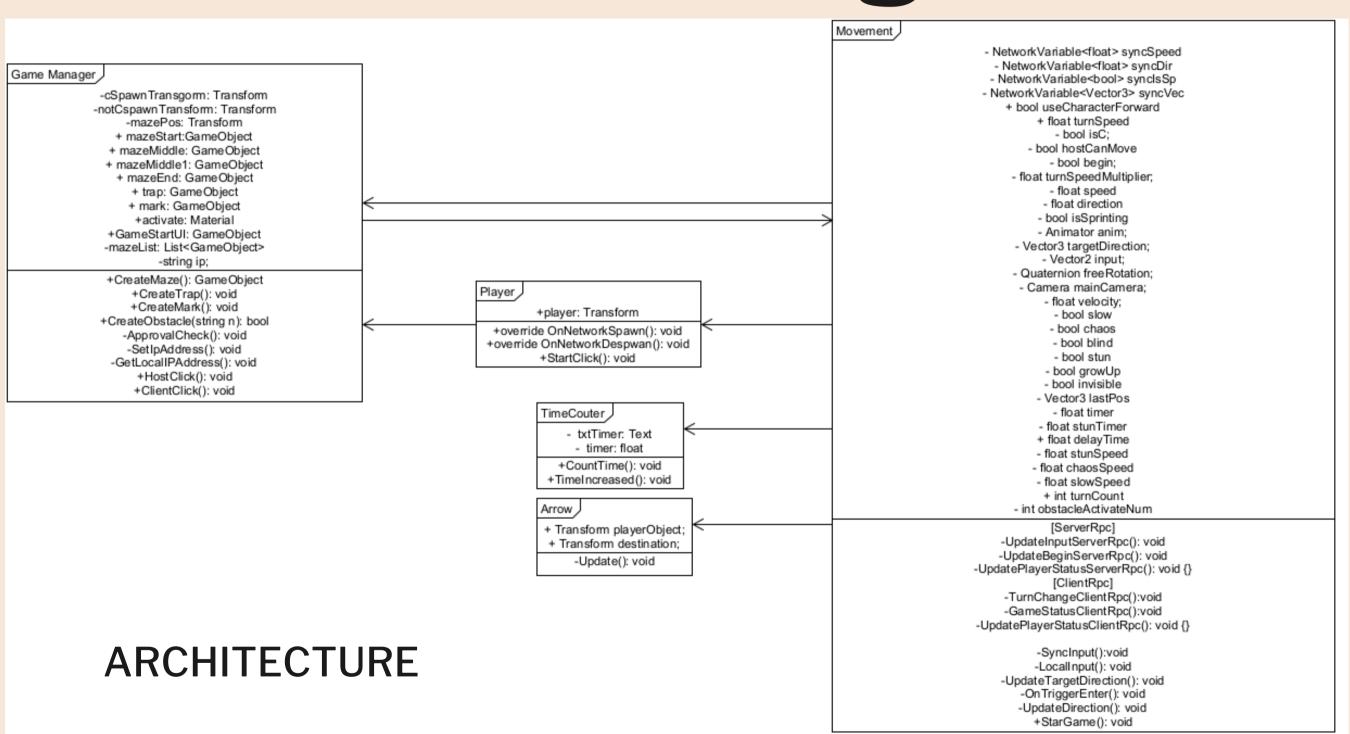
- 1. hard to turn around the point of view
- 2. have no idea when the turn is over
- 3. the balance of card features



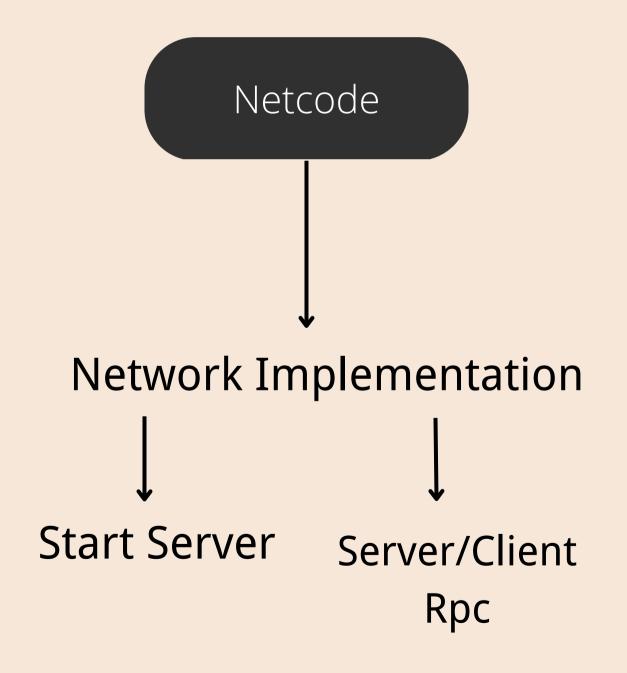


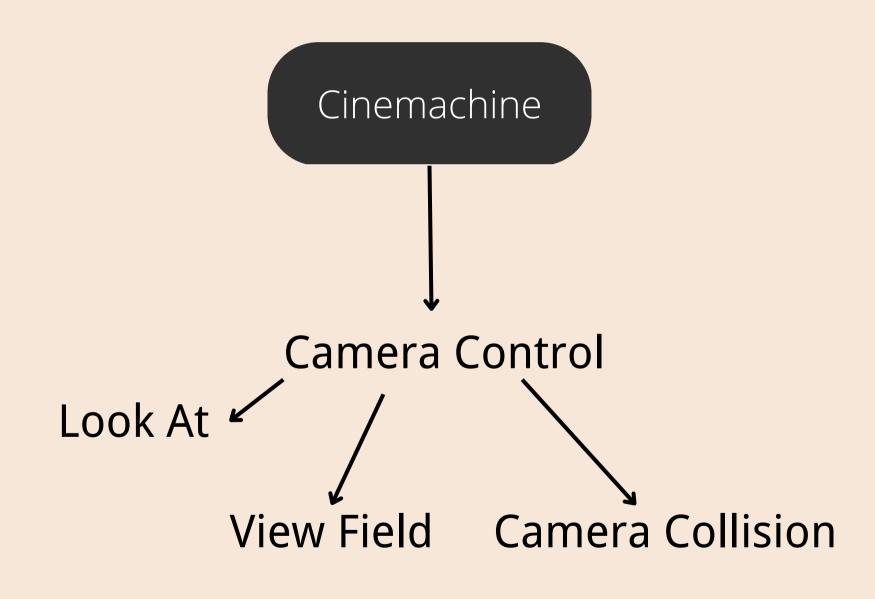
Implementation Design

Game Design

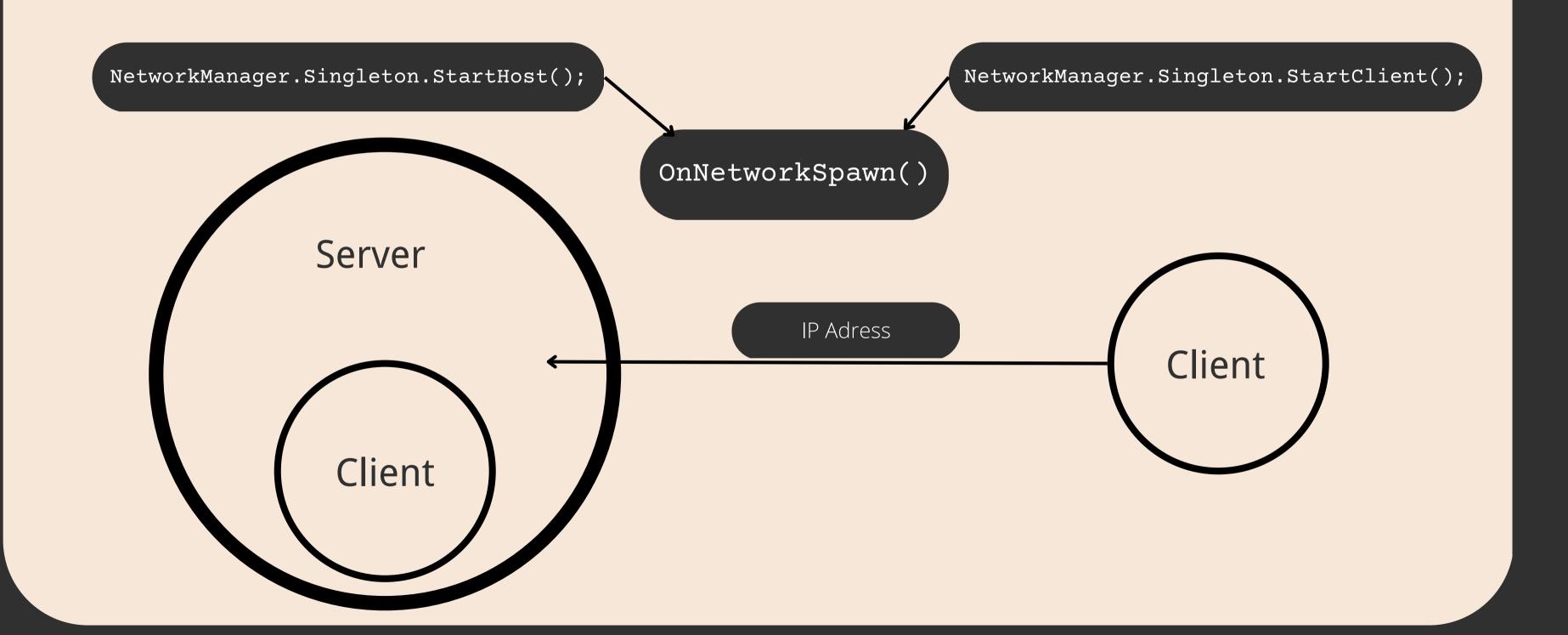


External Packages





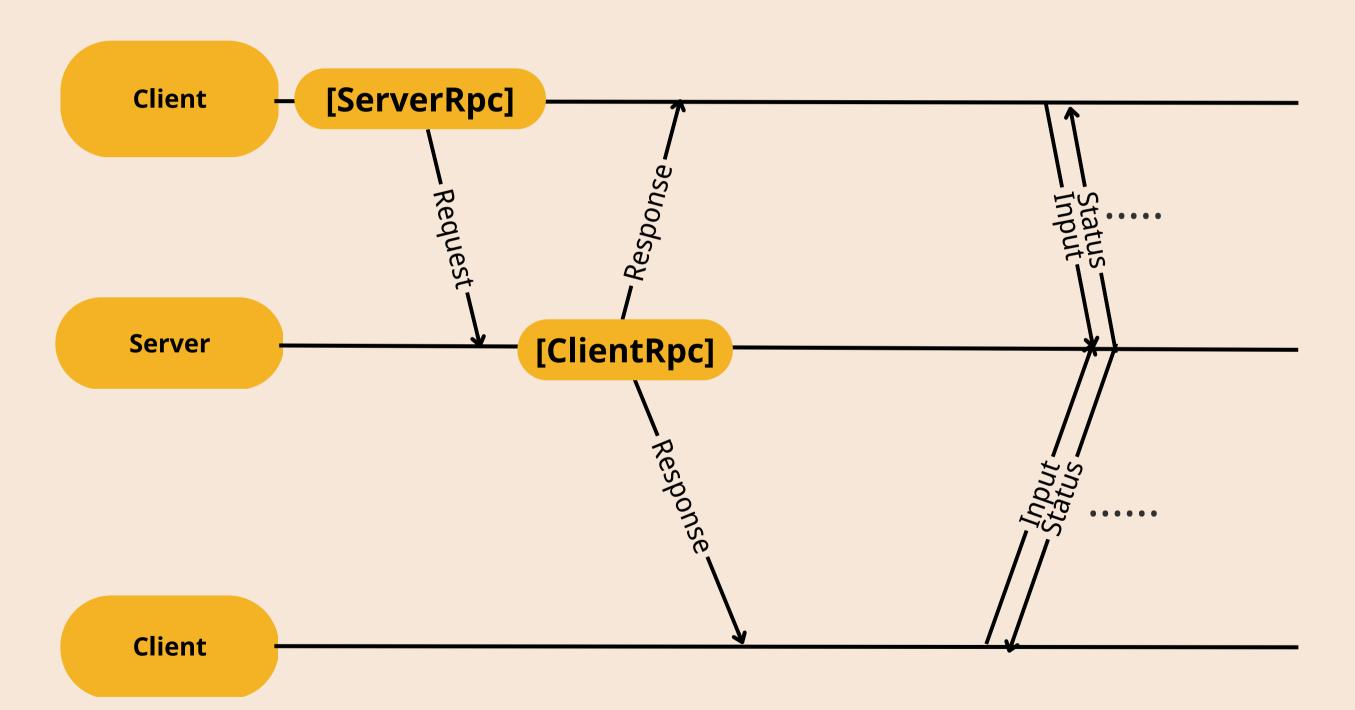
NETCODE



NETCODE

```
void UpdateInputServerRpc(float speed, float dir, bool isSp, Vector3 vec,
                         Quaternion rot) {
[ServerRpc]
                         syncDir.Value = dir; syncSpeed.Value = speed;
                         syncIsSp.Value = isSp; syncVec.Value = vec; syncRot.Value = rot; }
                                                void SyncInput() {
                                                  anim.SetFloat("Speed", syncSpeed.Value);
     if (IsLocalPlayer)
                                                  anim.SetFloat("Direction", syncDir.Value);
        LocalInput();
                                                  anim.SetBool("isSprinting", syncIsSp.Value);
     if (!IsLocalPlayer)
                                                  transform.position = syncVec.Value;
        SyncInput();
                                                  transform.rotation = syncRot.Value; }
```

SERVER CLIENT





Project Milestones



Breaking up work

Game

Safe set of features

Extended features

Coding

Safe set of features that MUST be completed

- Maze generation
- Player movement
- Card features that makes the game interesting such as blinding, invisibility...
- Netcode
 - connects the two devices
- Menu

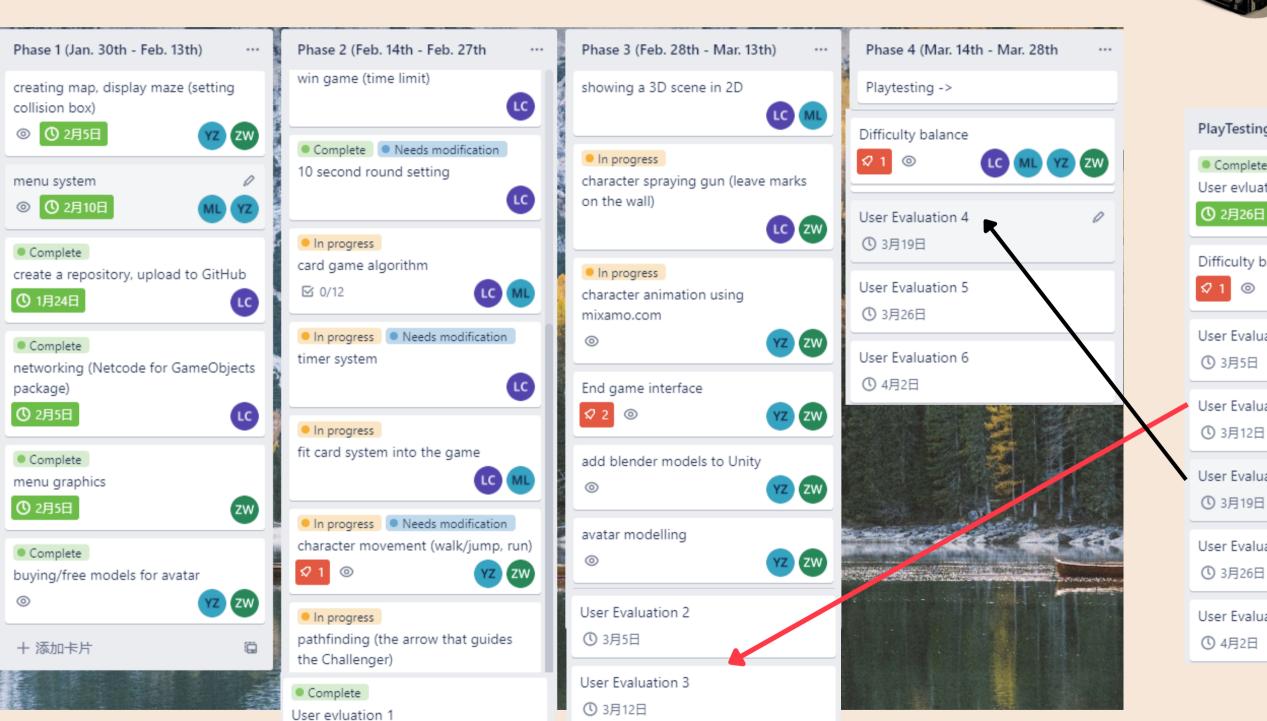
Extended features

Art

- Character spraying gun (leave marks on the wall)
- Extra fun features designed
- 0

Trello Board





① 2月26日



Week-to-week Plan

Week	Plan	Playtesting
February 28th - March 6th	 card system timer system (try to come out with a solution for the time waiting) fit card system into the game avatar modelling & map modelling 	Group testing (the four of us) - test the card system and the new timer system
March 7th - March 13th	 character animation using mixamo.com showing a 3D scene in 2D (fix camera angles for Controller) End game interface avatar modelling & map modelling (cont.) 	Group testing (the four of us) - test camera angles - character animations Friends from previous testing - test if previous issues are fixed
March 14th - March 20th	 Implementation features that didn't complete in the last phase(just in case we overestimate our abilities) Refinement Make our game more attractive and userfriendly (mainly game UI) 	Group testing (the four of us) - test new game features Friends from previous testing - test if previous issues are fixed Players that haven't play the game before - no instructions given verbally



Week-to-week Plan

March 21st - March 28th	 Difficulty balance use previous feedbacks to determine the difficulty Tutorial and instructions of the game poster 	Group testing (the four of us) Friends from previous testing - test if previous issues are fixed Players that haven't play the game before - no instructions given verbally
March 29th - April 5th	 poster user testing and modifying test the complete game 	Group testing (the four of us) Friends from previous testing - test if previous issues are fixed Players that haven't play the game before - no instructions given verbally
April 6th - April 10th	 user testing and modifying Last refinement 	Group testing (the four of us) Friends from previous testing - test if previous issues are fixed Players that haven't play the game before - no instructions given verbally



Thanks for listening!



Discussion

ANY QUESTIONS?