RUBBER BANG GAME DESIGN DOCUMENT

"An online two player game with a twist"

Project Description

This game design document describe about a 3D low poly online multiplayer shooter with a unique mechanic and an original story.

Version History

Version #	Implemented By	Initial Date	Approved By	Approval Date	Reason
1.0	Anmol Mittal	20/02/2023	Anmol Mittal & Faizal Khan	22/02/2023	Initial version with player movements.
1.1	Anmol Mittal	23/02/2023	Anmol Mittal & Faizal Khan	27/02/2023	Online multiplayer support.
1.2	Faizal Khan	01/03/2023	Anmol Mittal & Faizal Khan	02/03/2023	Basic skeleton map design.
1.3	Anmol Mittal	04/03/2023	Anmol Mittal & Faizal Khan	06/03/2023	Added a placeholder gun, shooting & it's muzzle flash and power up system
1.4	Faizal Khan	07/03/2023	Anmol Mittal & Faizal Khan	15/03/2023	Added park environment, terrain, grass, rides, buildings, roads, cars.
1.5	Faizal Khan	16/03/2023	Anmol Mittal & Faizal Khan	20/03/2023	Added refinements to the environment, colliders, more buildings
1.6	Anmol Mittal	21/03/2023	Anmol Mittal & Faizal Khan	22/03/2023	Added a basic menu UI & respawn system
1.7	Faizal Khan & Anmol Mittal	23/03/2023	Anmol Mittal & Faizal Khan	26/03/2023	Researched & Added power up Ulimages
1.8	Anmol Mittal & Faizal Khan	01/04/2023	Anmol Mittal & Faizal Khan	05/04/2023	Music & SFX
1.9	Anmol Mittal & Faizal Khan	06/04/2023	Anmol Mittal & Faizal Khan	06/04/2023	Development build for user testing [bugs found!]

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1. Characters

Main characters in this game are two kids who are playing in a park, running, jumping climbing rides & shooting each other by rubber bands.

2. Story

Game is set on a sunny day in a kids playground in the middle of a city. There are two young kids imagining themselves playing in a playground shooting each other withrubber bands.

3. Gameplay

3.1. Goals

- Shoot other player.
- > Win as much rounds as possible.

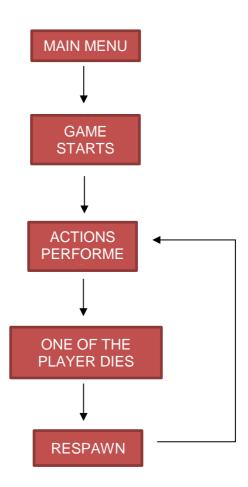
3.2. User Skills

- Walk
- > Sprint
- > Jump
- > Shoot

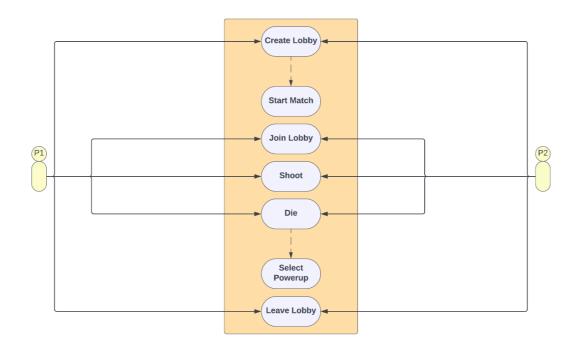
3.3. Game Mechanics

- Players are spawned randomly at any corner of the map.
- A canvas with three options pop up in front of the players from which the players will choose a starting power up.
- Walk, sprint, jump & shoot actions are performed.
- ➤ The player which gets killed by the other one gets respawned again with those three powerups to choose from.
- YES! The defeated player gets a power up.
- ➤ The players fight a number of matches after which the winner is announced.
- Players can shoot some small objects like trash bags, baseball bat etc. which are rigid bodies.

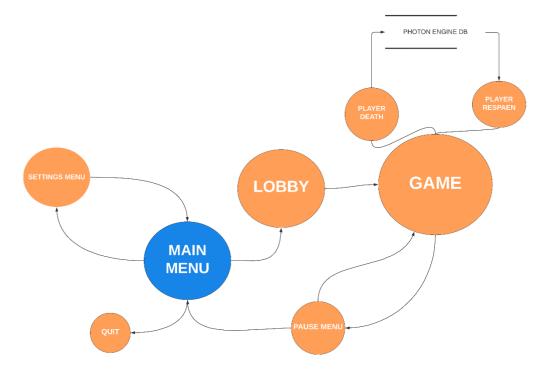
System Flow Chart:



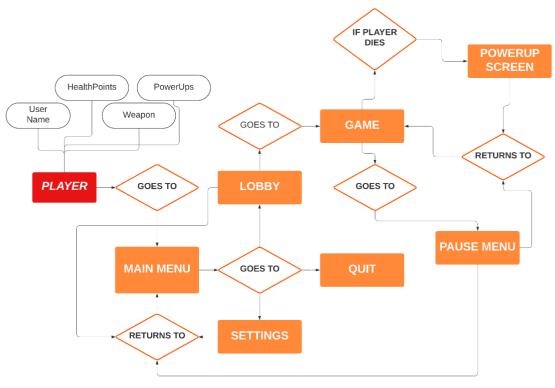
Use Case Diagram:



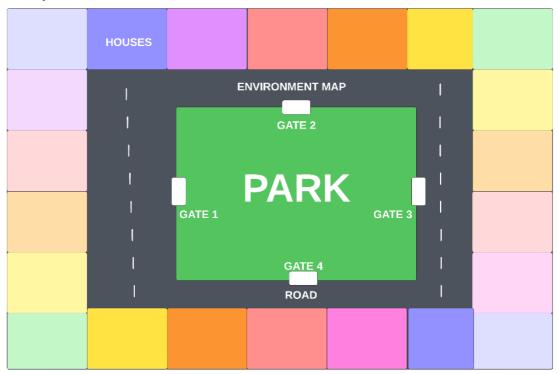
Level 2 DFD:



ER Diagram:



Environment Map:



Hand reference image:



3.4. Powerups

- ➤ Increase damage by a 10%
- ➤ Increase reload speed by 10%
- ➤ Increase accuracy by 20%
- ➤ Increase max HP by 10%
- ➤ Increase jump power by 10%
- ➤ Increase walk speed by 1 unit
- ➤ Regeneration 5%
- ➤ Increase resistance by 10%
- ➤ Increase fire rate by 10%

3.5. Losing

There are two ways by which a player can lose:

- Losing a life
 - Getting killed by other player's bullets
- Losing the match
 - o The other player has more number of kills

4. Art Style

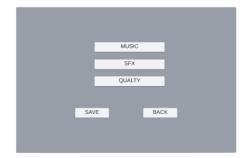
Game will be in 3D low-poly graphics with bright colors. Environment should look like an afternoon scene.

5. Mock UI(s)









6. Music and Sounds

- ➤ In game fun BGM
- > Main menu music
- Sound on button click [rubber band strike]

6.1. Players sounds

- > Jump sound
- Shoot sound
- > Hurt sound
- Win sound
- Lose sound

7. Technical Description

Initially the game will be released on the following platforms:

- Windows
- > MAC OS
- > Linux

Consider the following engines: Unity Engine.

8. Marketing and Funding

- > Create a demo reel or a vertical slice to show to the audience for feedback.
- > Is there any govt. Funding that we can apply for?
- Contact gaming new websites and send them that vertical slice.
- ➤ Post videos about the game on Facebook, Instagram, YouTube etc.

8.1. Demographics

- > Age: 6+
- > Gender : Anyone

8.2. Platforms & Monetization

- Windows, Mac OS & Linux.
- > Free demo level containing ads.
- ➤ A full version which is paid.

8.3. Localization

- Initially English.
- Later update with: Italian, French, and German etc.

END OF THE DOCUMENT.