# Sprint 2 Requirements Artifacts

Team Number: 12

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#### **Ordered by Requirement ID**

#### 1. Score Tracking

User Story:

PvE:

- A player can earn points by destroying another tank
- A player's points carry over between levels
- Their highest score is saved and displayed
- A player can no longer get points when they are out of lives

PvP:

- If it's a battle royale mode, the last player standing wins
- In a timed match, a player earns points by destroying the other players

#### 2. NPC Functions

Moving:

- NPC tanks must be able to move around
- How they move can be dictated by the difficulty (i.e. they move randomly at Easy, and try to dodge bullets at Hard)

#### Shooting:

- NPC tanks must also be able to shoot, otherwise the Player will always win
- Different tanks have different ways of "shooting" (i.e. standard bullets, multi-shot, mines, etc)

### Getting Hit:

- Regardless of level, an NPC tank should be destroyed once hit

### 3. NPC Types

#### Difficulty:

#### Easy:

- Moves at random, shoots at random

#### Medium:

- Tries to shoot the player, but doesn't have much reasoning for its movement
- More calculated shots but with more room for error

#### Hard:

- Moves with intent, paths towards the player and can dodge player bullets
- Calculated shots to hit the player more consistently

#### Tank Types:

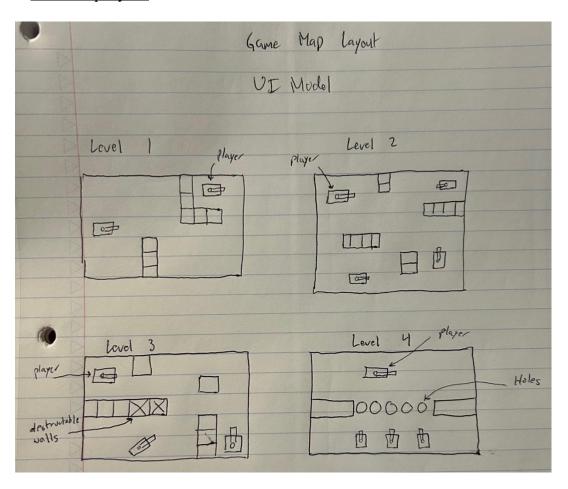
- Red: Normal enemy tank. Shoots the same bullets as the player
- Yellow: Only places mines
- Pink: Shoots bullets very fast
- Orange: Shoots bullets AND places mines

#### 4. Game map art

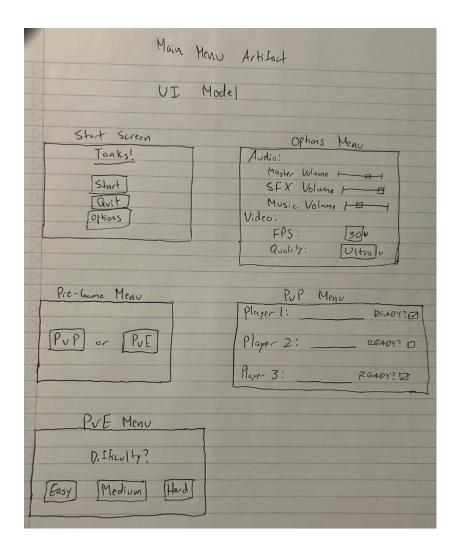
### Assets:

- Normal walls
- Breakable walls
- The floor, which is technically the background because it's top-down
- Holes

# 5. Game map layout



### 6. Main Menu



### 7. Player art

#### Tank color:

- Have a way to change the color of your tank
- Default is blue, but can be changed in the main menu
- Need to have different assets for each color for the tank

#### **Bullets:**

- Customize Bullets in the menu
- Could also be implemented, would just need assets to allow for different bullets

### 8. NPC art

## Enemy Tanks:

- Color coded depending on what kind of tank it is
- Yellow if it places mines, blue if it just shoots, red if it needs to be hit more than once to be destroyed, etc.
- Assets for different NPC tanks

### Enemy Bullets/Mines:

- Different color than player to avoid confusion
- Assets for different colored bullets and mines