Tankeo Drift

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Contents

| Tankeo Drift | 1 |
|---|----|
| Contents | 2 |
| Game Summary | 3 |
| Target Platform(s) | 3 |
| Theme / Setting / Genre | 3 |
| Inspiration | 3 |
| Mood-Board | 4 |
| Core Gameplay Mechanics | 4 |
| Game play | 5 |
| Core Gameplay | 5 |
| Meta-Games / Gameplay Diagram | 5 |
| Upgrade System: | 5 |
| Attacks: | 7 |
| User Interface / Screens | 9 |
| Main Menu | 9 |
| Gameplay Screen | 10 |
| Upgrade Popups | 11 |
| Pause Menu | 12 |
| Levels | 13 |
| Asset List | 14 |
| Audio List | 14 |
| Associated Documents | 15 |
| Creative Design Document (CDD)- Mood-hoards | 15 |

Game Summary

Tankeo drift is an action roguelike game, where you must eliminate oncoming vehicles for as long as possible and upgrade your tank as you play.

- Arcade style vehicle controls with a tank drifting & manual turret shooting
- Progressive upgrade system that allows customization to play-style
- Procedural terrain generation
- Endless mode option
- Destructible environment
- Bonus multiplier that stacks when killing enemies

Target Platform(s)

- This game is intended for Windows and PC
- The game will be played in landscape mode (1920x1080).

Game Overview

Theme / Setting / Genre

Tankeo Drift will be a low-poly arcade style-game. The theme is arcade based with bright/vibrant colors and flashing alerts.

Inspiration

<u>Vampire Survivor</u>: This popular game inspired the main premise for this project, having endless hordes of enemies that the player must defeat. I'd like players to take an active role in my game with attacks being less automated and players focused on attacking / positioning between targets.

<u>Slayin:</u> This mobile game influenced the score multiplier mechanics; I liked the idea of players being rewarded for greed and eliminating enemies as quickly as possible to progress faster. This mechanic encourages a sense of urgency and rewards players for acting upon it. Removed from final game

<u>Survivor.io:</u> This mobile game inspired some gameplay and UI elements, as I wanted an art-style that was easy minimalistic to allow lots of scalability.

Mood-Board



Core Gameplay Mechanics

- **Endless Survival**: Unlike Vampire Survivor, the player will have additional control over their attack choices as opposed to fully automated attacks
- **Score Multiplier:** Multiplier will be influenced by succession eliminations and the players 'drifting' encouraging players to have close encounters with enemies. Influenced by 'Slayin' having players motivated to gain large kill multipliers to earn more currency Removed from final game
- **Score Counter:** Small in-game popups will appear around the player being a visual component to the score multiplayer and adding to this arcade feel
- **Arcade Style Driving:** The player will have an arcade feel to the tank, instead of realistic with the tank being able to accelerate/decelerate quickly and have a drifting feel to the vehicle
- **Tank Upgrades:** The player will have 4 key upgrade paths (Tracks, Demolition, Turret & Armor)

Gameplay

Core Gameplay

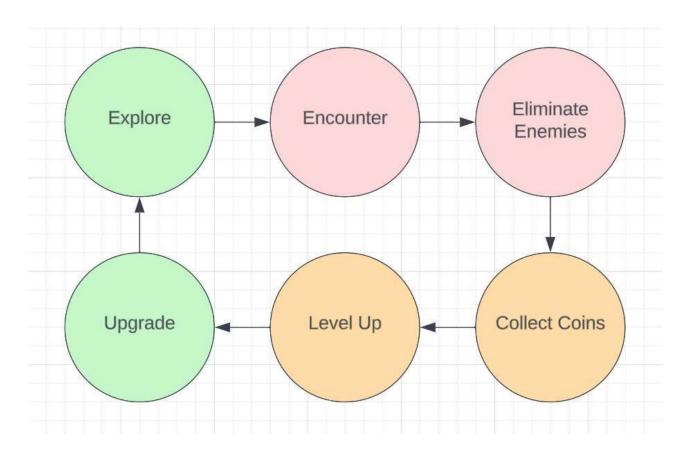
The gameplay loop involves:

The player (tank) exploring the endless terrain, encountering enemies and then eliminating enemies to gain experience (coins). Once the player gains enough experience they level up and can upgrade their tank.

This loops so that the player can survive for as long as possible, by upgrading their gear and overpowering the endless hordes.

To win the game you must survive for 10 minutes after this, on the win screen you will gain the option to enter endless mode.

Flow Chart:



Meta-Games / Gameplay Diagram

Variables or systems that work such as upgrading characters, etc.

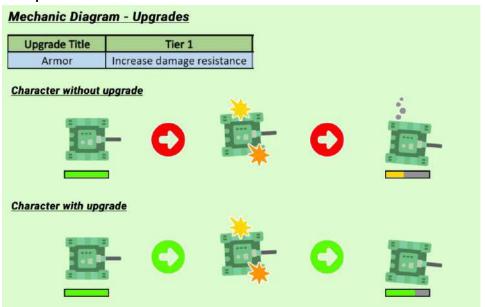
Upgrade System:

The character will have arcade driving controls & manual turret firing. As the character collects coins and level's up, they will be able to upgrade their tank.

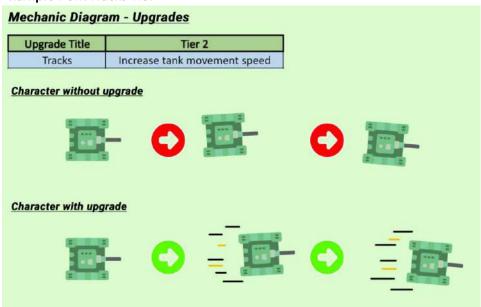
The tank has 4 upgrade paths (Armor, Speed, Turret, Magnet). Planned briefly in Excel.

| | Tank Upgrades | | | | | | | | |
|----|---------------|--|------------------------------|-----------------------------------|---|--|--|--|--|
| ID | Upgrade Title | Description | Tier 1 | Tier 2 | Tier 3 | | | | |
| 1 | Armor | Improve base damage reduction | Increase damage resistance | Increase ranged damage resistance | Auto-regenerate armor overtime | | | | |
| 2 | Tracks | Improve tank tracks quality | Increase tank rotation spped | Increase tank movement speed | Drastically increase tank rotation and movement speed | | | | |
| 3 | Magnet | Improves item pickup magnet | Increase item pickup range | Increase item pickup strength | Drastically increase pickup range and force | | | | |
| 4 | Turret | Improve weapon damage / speed / firerate | Increase weapon firerate | Increase turret rotation speed | Increase weapon explosion effect | | | | |

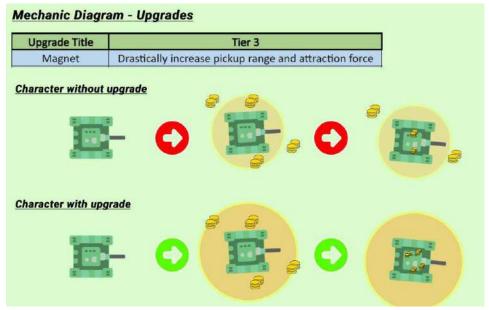
Example Perk Armor Tier 1



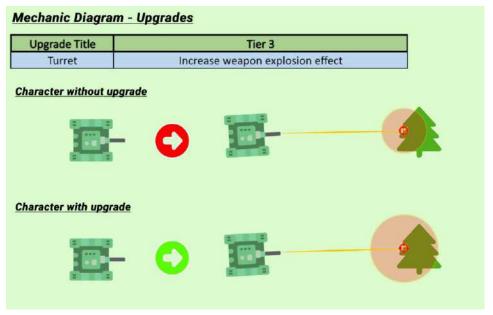
Example Perk Tracks Tier 2



Perk Magnet Tier 3



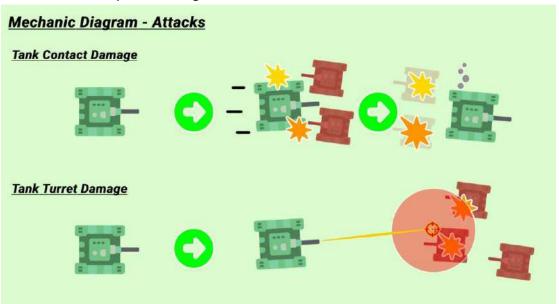
Perk Turret Tier 3



Attacks:

The character will have 2 methods to attack enemies: Method 1 – Contact Damage

Method 2 – Primary Turret Firing



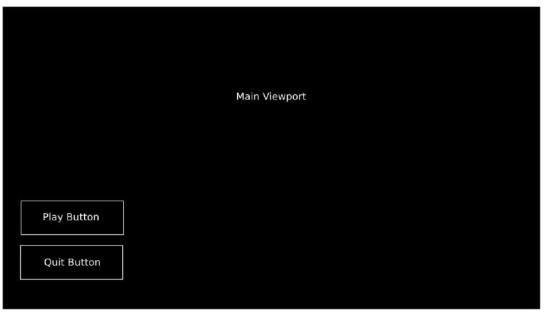
User Interface / Screens

Wireframes of **every** screen or popup in the game and clear info on how they connect and lead to each other.

Main Menu

- Game Logo
- "Play Now" Button -> Goes to 2. Level Selection Screen -> Level Selected Goes to 3. Loads gameplay level of choice
- "Quit" Button -> Exits Game

Iteration 1:



Gameplay Screen

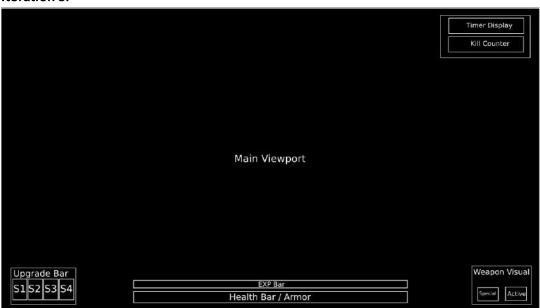
Iteration 1:



Iteration 2:

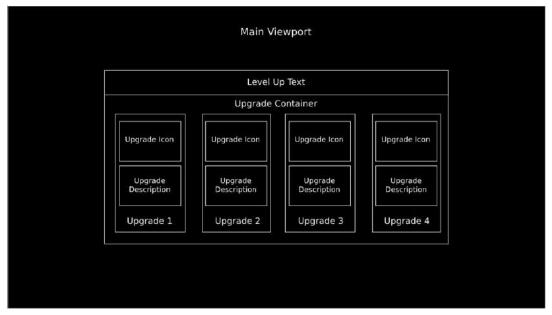


Iteration 3:

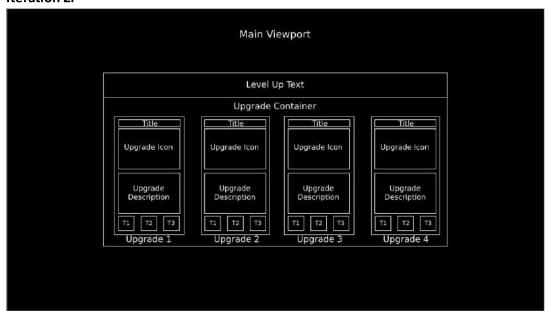


Upgrade Popups

Iteration 1:

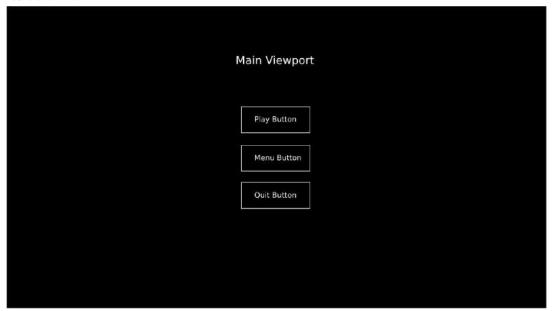


Iteration 2:



Pause Menu

Iteration 1:



Levels

I plan to have 3 level variations; these will be built by collections of floor templates with different shaders that distinguish each level.

The initial 3 levels will be:

- Woodlands
- Desert
- Snowy Lands

How levels will vary.

The enemy spawn rate & enemy damage will be increased via multiplayer for each level. As the game is endless it'll save the players' stats at the end of each game.

Each level will have its own ambience & weather patterns. Created via the Unity particle system.

Woodlands – Rain weather

Desert - Sandstorm weather

Snowy Lands – Snowy weather

The levels will scale as follows:

Easy – Woodlands

Medium – Desert

Hard – Snowy Lands

Asset List

The art assets will be 3D, modelled in Blender. I want the art-style to be low-poly as that works best with my current modelling abilities.

- Base Floor Templates 6 variations (with a height-based shader in engine to showcase each level type)
- Trees 3 Variations with material scalability
- Rocks 2-4 Variations with material scalability
- Foliage Grass Variation with shader to produce sway
- Treasure Chest

| | | Asset List | |
|---------------------------|-------------|----------------------|---|
| Name | Туре | Creation Method | Description |
| | | Environment | |
| Tree-v1 | Environment | Blender | Small simple tree with leaves |
| Tree-v2 | Environment | Blender | Simple tree with leaves |
| Tree-v3 | Environment | Blender | A dead-tree with no leaves |
| Floor Plane-v1 | Environment | Blender | Floor template 50x50 to snap with other floor templates |
| Floor Plane-v2 | Environment | Blender | Floor template 50x50 to snap with other floor templates |
| Floor Plane-v3 | Environment | Blender | Floor template 50x50 to snap with other floor templates |
| Floor Plane-v4 | Environment | Blender | Floor template 50x50 to snap with other floor templates |
| Floor Plane-v5 | Environment | Blender | Floor template 50x50 to snap with other floor templates |
| Floor Plane-v6 | Environment | Blender | Floor template 50x50 to snap with other floor templates |
| Coin-Bronze | Environment | Blender | A bronze coin - giving low exp |
| Coin-Silver | Environment | Blender | A silver coin - giving mid exp |
| Coin-Gold | Environment | Blender | A gold coin - giving high exp |
| Chest | Environment | Blender | A chest that drops pickups |
| | | UI | |
| Kill Counter Icon | UI | Photopea | A small UI skull icon to indicate the kill counter |
| Timer Icon | UI | Unity Free 2D Sprite | A small clock timer that fills based off time (0-60seconds) |
| Lock Icon | UI | Unity Free 2D Sprite | Lock icon that shows an upgrade/weapon has not been unlocked |
| Level Up (Progress) Bar | UI | Photopea | A solid bar with gradient to display the players total exp |
| Health Bar (Progress) Bar | UI | Photopea | A solid bar with gradient to display the players total health |
| Weapon Icon - Base | Ul | Photopea | A simple icon to display the players weapon |
| Upgrade Icon - Armor | UI | Photopea | Icon for Armor upgrades |
| Upgrade Icon - Turret | UI | Photopea | Icon for Turret upgrades |
| Upgrade Icon - Speed | UI | Photopea | Icon for the Speed upgrades |
| Upgrade Icon - Demolition | UI | Photopea | Icon for the Demolition upgrades |

Audio List

Audio elements will be sourced from free to use websites i.e (ZapSplat, FreeSounds.org) with royalty free & commercial use.

Audio List

Background Music

- Main Menu Music
- In Game Music
- Level Theme Ambience (Rain, Snow, Sandstorm)

Game Sounds

- Tank Tracks Movement
- Shot Fired
- Shot impact on ground
- Shot impact on target (explosion)

• Coin picked up

UI Sounds

- Button Click
- Level Up

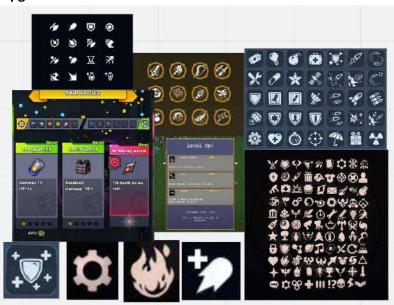
Associated Documents

<u>Creative Design Document (CDD)- Mood-boards</u>

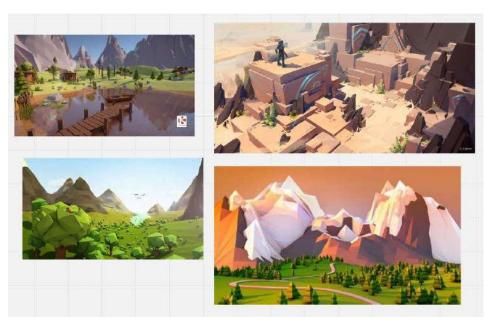
Premise:



Upgrade UI:



Levels:



Game Over & Win Screen:

