Name: TOP GUN

2D Top-Down Shooter game

Fall 2022

CMPS 3350

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- Overview:
  - In this game, zombies will come from all directions and the players must survive at all costs. Players will get temporary aid such as buffs or heals. Game statistics and scores will be given at the end of the game.
- Technical Requirements:
  - C++ game client
    - 2D graphics
    - OpenGL
    - Network interface
    - Asteroids framework
  - Game server
    - UDP
  - Collision detection
    - Entity / World
    - Entity / Entity
  - Physics
  - Animation
  - Audio
    - OpenAL
- Product Features:
  - Enemy AI
    - Wave based spawning
  - Networked Multiplayer
    - PvE Co-op
  - UI screens
    - Pause, settings, title, credits, server connecting

- ○ Audio
  - ■ Background music
  - ■ Weapon sounds
  - ■ Enemy sounds
  - ■ Damage sounds
  - ■ Item sounds
- ○ Multiple maps
- ○ Gamepad support
- Controls:
  - ○ WASD
    - ■ Horizontal and vertical movement
    - ■ GUI traversal
  - ○ Other keys
    - ■ Item interaction
    - ■ Pause
  - ○ Mouse
    - ■ Aim and shooting
  - ○ Gamepad
    - ■ Joysticks
      - ● Movement and aim
      - ● GUI traversal
    - ■ Triggers
      - ● Shooting
    - ■ Buttons
      - ● Item interactions
    - ■ Start / Menu
      - ● Pause

- Overall Goals:
  - Entities
    - Properties: health, speed, other stats, lives etc.
    - Multiple unique enemies
  - Credit screen
    - Inside the UI screen with the information of the team