<u>CSC413[01] – Term Project – Design Documents</u>

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Wingman

- 1. JApplet
 - a. Game creates an instance of a game, calling an initializer class
 - i. HUD displays user score, health, and lives
 - ii. Bullet creates a bullet object. Leaves player or enemy, aimed at target
 - iii. Explosion animation for bullet hits and unit explosions
 - iv. Island displays island object on background
 - v. Unit creates a game unit, with set power, and places it on the canvas at requested location. Unit is reset upon destruction.
 - 1. <OBSERVER> Player user controlled airplane, can collide with other units
 - 2. Boss endgame unit with greater power and health
 - Weakling pawn style enemy which shoots in a straight line and has little health
- 2. Wingman the game initializer class. Initializes all game objects
- 3. <OBSERVABLE> GameEvents watches for user input and other events
- 4. Keycontrol defines user controls for Player object
- 5. Media
 - a. Sound initializer and container class for background music and sound effects

Tanks

- 1. JApplet
 - a. Game creates an instance of a game, calling an initializer class
 - i. HUD displays user score, health, and lives
 - ii. Bullet creates a bullet object. Leaves player or enemy, aimed at target
 - iii. Explosion animation for bullet hits and unit explosions
 - iv. Unit creates a game unit, with set power, and places it on the canvas at requested location. Unit is reset upon destruction.
 - 1. <OBSERVER> Player user tank, collision event is different, does not cause destruction
 - 2. Enemy pawn style enemy which moves randomly across map and shoots in the players direction
 - v. Wall creates a wall object and places it on canvas. Can be set to destructible and indestructible. If destructible, has hit count till wall breaks.
 - b. Tanx Media
 - i. Sound initializer and container class for background music and sound effects
 - c. KeyControl– defines user controls for Player object, not the same as Wingman due to different types of movement
 - d. MiniMap smaller version of game map, allows user to track location of their and enemy units
 - e. <OBSERVABLE> GameEvents watches for user input and other events such as minimap updates