

## OOAD Project 6

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### Status Summary

Work Done:

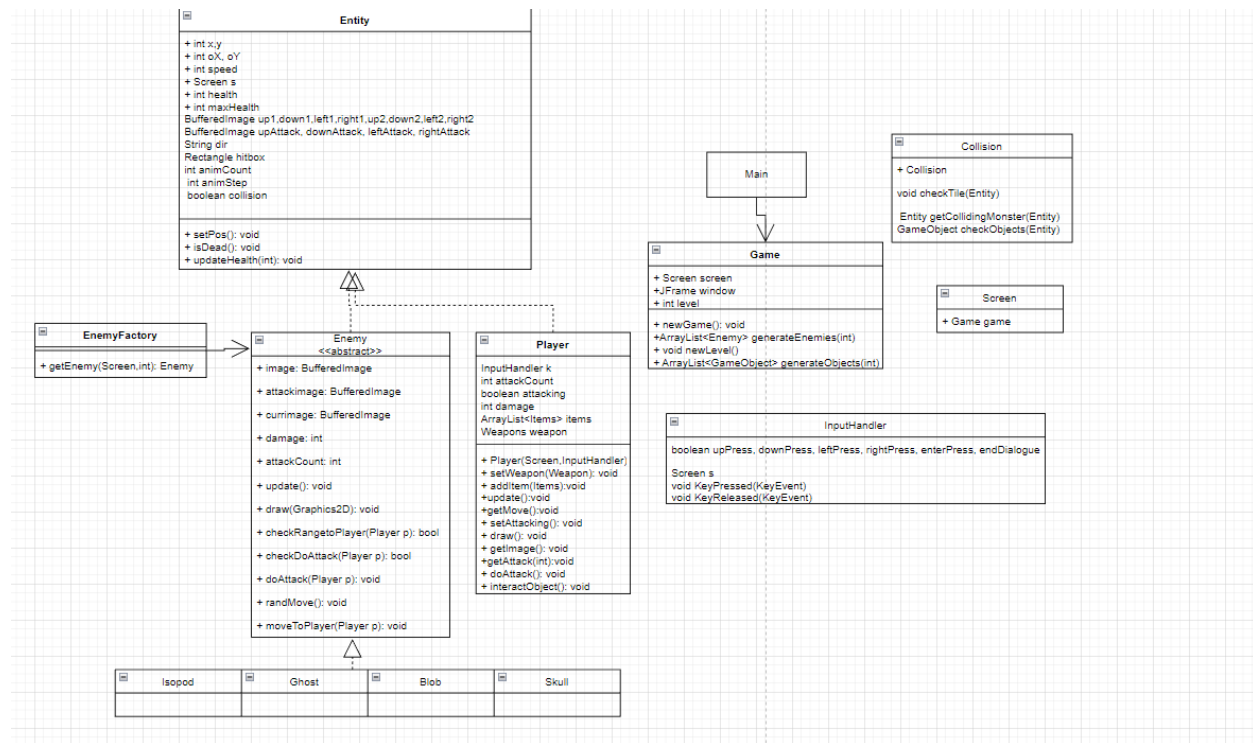
Game progress:

- Tilemap loads
- Start menu loads
- Custom pixel art loaded and utilized
- Movement and collision implemented
- Enemy movement and collision implemented
- System to attack and destroy enemies implemented
- System for enemies to attack and deal damage to player implemented
- Once all enemies destroyed, portal appears
- Once portal entered, new enemies loaded in
- Player can interact with objects and obtain weapon or item from them
- Objects become non collision and change graphic
- Dialogue shows up when player interacts with object, with text that can be scrolled through and then closed once finished

Objects created:

- Map: holds all Tiles and the map displayed on screen
- Tile: holds if tile can be collided with and tile image
- Screen: controls main game thread and draws on entities
- Enemy: contains each enemy type data and image, inherits Entity
- Player: holds player data and image, inherits Entity
- InputHandler: takes user key input
- Entity: holds entity information such as health, etc
- Game: controls starting of new game, generating enemies, new level
- EnemyFactory and TileFactory: for creating Enemy/Tile objects using factory pattern
- Audio: Holds audio file to loop
- GameObject: For interactable objects, chest and mushroom
- Weapon: Holds all weapons
- Item: holds items the player can obtain
- StartMenu: handles the swing start menu for before the game

### Class Diagram



## Plan for Next Iteration

- Implement game-end circumstance
  - Add final boss at Level 10, ends once defeated
  - Game-end once player dies
- Implement NPCs to buy weapons or potions from
- Add save-game feature, holding player health, level, and equipped items making user able to load up game even after closing entire program
- Add more tilemaps