Entity-Component-System Design

CPSC 427 Winter 21/22 - Team Robinson (Team 13)

 Jiayi Fan
 55171540
 Jean SyJueco
 11418150

 Alex Ling
 27643311
 Eric Guzman Skotnitsky
 79227559

 Jia Ying (Erica) Yang
 51803682
 Jae Choi
 50849141

Components

Component Description

Player Is a character the player can control

Deadly Is an enemy

Biome Is a biome

Card Is a card

Deck Is a card in the player's deck

Health Has health (can take damage)

Damage Does damage

Interactable Is an interactable

Traversable Is a tile that entities can move through

Lootable Is lootable (i.e. a chest can be looted)

Tier Has a tier (i.e. bronze, silver, gold)

Motion Can move (i.e. has position, velocity, scale, etc.)

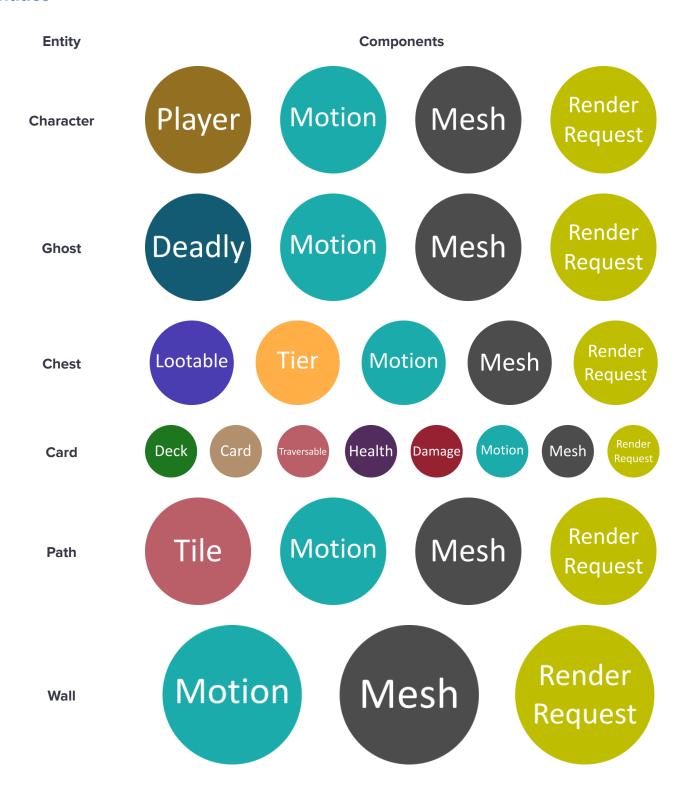
Animation Has data for storing animation information

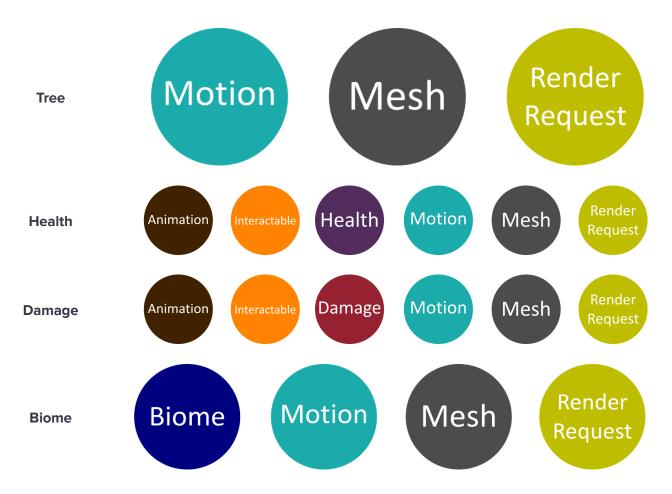
Mesh Has data for storing vertex and index buffers

RenderRequest Should display on screen

Four new components have been added in Milestone 2, namely **Biome**, **Card**, **Deck**, and **Animation**. The **Tile** component has also been changed to a **Traversable** component, meaning that any entities that do not have the component act as a wall or obstacle.

Entities





Three new entities have been added in Milestone 2, namely **Health**, **Damage**, and **Biome**. The **Card** entity has also been updated with additional components (i.e. **Card** and **Deck**), whereas the **Wall** entity has had a component removed (i.e. **Tile**).