ECS Documentation

Team ID: 6

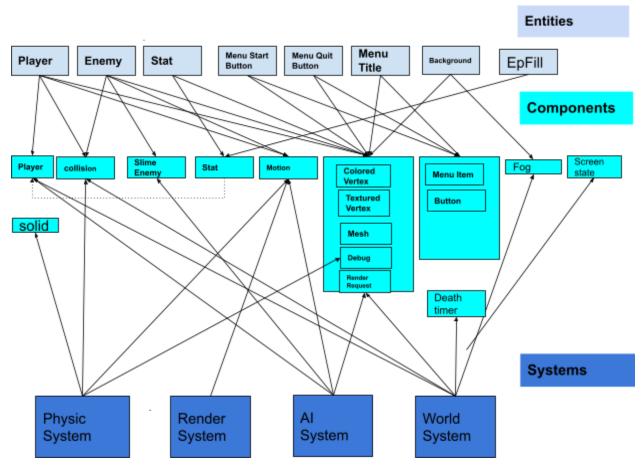


Diagram 1. ECS diagram for Adrift Game

Entities (defined as constructors in world init)

- Player
- Enemy
- Stats
- Menu Start Button
- Menu Quit Button
- Menu Title
- Background
- Epfill

Components (defined as structs in components.hpp)

- Player
- Stat (EP- energy points, Hp health points, MP magic points)
- Collision

- Motion (for physics)
- Debug (from template)
- ColoredVertex (from template)
- TexturedVertex (from template)
- Mesh (from template)
- RenderRequest(from template)
- Queueable (for turn order)
- Fog
- Slime Enemy

Systems (defined as separate cpp/hpp files)

- world system (main game loop)
- physics system (movement system)
- render system
- turn system (for turn order in battle)
- ai system

List of Entities and their components used

Player Entity

Components used: Player, ColoredVertex, TexturedVertex, Debug, Motion, Stat, Collision, Mesh, RenderRequest

Enemy Entity

Components used: Slime Enemy, ColoredVertex, TexturedVertex, Debug, Motion, Collision, Mesh, RenderRequest

Stat

Components used: Stat, ColoredVertex, TexturedVertex, Debug, Mesh, RenderRequest

EpFill

Components used: Stat, ColoredVertex, TexturedVertex, Debug, Mesh, RenderRequest

Menu Start Button

Components used: Menu Item, Button, ColoredVertex, TexturedVertex, Debug, Mesh, RenderRequest

Menu Quit Button

Components used: Menu Item, Button, ColoredVertex, TexturedVertex, Debug, Mesh, RenderRequest

Menu Title

Components used: Menu Item, Button, ColoredVertex, TexturedVertex, Debug, Mesh,

RenderRequest

Background

Components used: Colored Vertex, Textured Vertex, Debug, Mesh, Render Request

List of Systems and their components

world system (main game loop)

Components used: Fog, Motion, Button, Menu Item, Collison

physics system (movement system)

Components used: Debug, Motion, Collison, solid

render system

Components used: Motion

ai system

Components used: Motion, Player, Slime Enemy