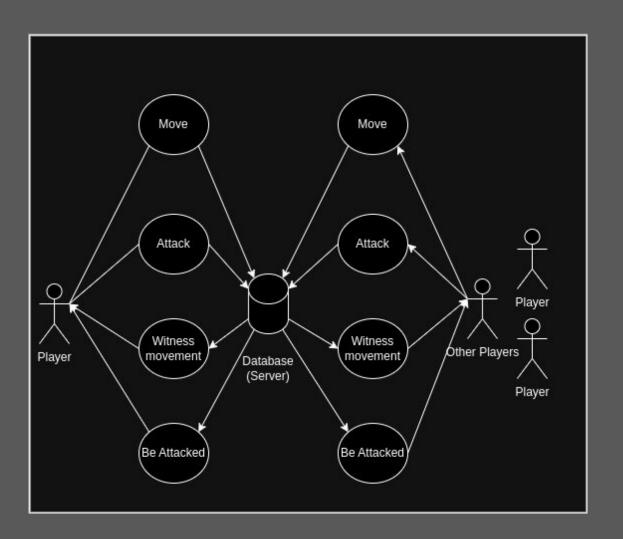
Use Case: Castles and Creatures

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Use Case: Join Game

After User Opens Application:

- User Clicks Join Game
- User Enters IP Address
- User Enters Port Number
- User Clicks Join
- User selects Character
- User is now in game as selected character

Error Flow

Failed to join:

Reopens Pop up to join

Actors:

- User
- Database
- Server

Use Case: Join Game

Acceptance Test:

- Enters correct IP
- Enters invalid IP

Edge Case:

Correct IP, Bad Port Number

Actors:

Use Case: Move

- User
- Database
- Server

- After the user Joins the game:
 - User presses and holds WASD, IJKL, ←↑→↓
 - Player begins to move in the corresponding direction
 - Player sends updated location to server
 - Player can change directions when the user begins pressing and holding a different combination of keys corresponding to a different direction
 - Player begins moving in the corresponding direction
 - User releases all direction keys
 - Player stops moving

Use Case: Move

Acceptance Test:

- Player is moving in open area
- Player can move in all directions

Edge Case:

Player Walks Off screen (You are allowed to do that)

Use Case: Attack

After user joins the game:

- The user shoots at enemies (Spacebar)
- When projectiles collides with enemies, they take damage
- Once a target's health reaches zero, they are destroyed
- Projectiles have limited range

Use Case: Attack

Acceptance Tests:

- Player can shoot
- Bullets shoot in the direction a player is walking
- When player shoots others, they take damage

Edge Case Tests:

Player should not be able to be hit by their own bullet

Use Case: Server

- Compile and Run Server Project!
- Server Starts automatically, and displays IP and Port number to join.

Use Case: Server

Acceptance Tests:

- Server Maintains Database of all entities that exist in game.
- Server Manages Collisions and Damage dealing
- Server Responds correctly to requests to change entity data
- Server Responds correctly to requests for an entity's data
- Server should initialize with randomly placed stumps and stones

Edge Case Tests:

Client Disconnect (Removes all their entities from the server)