

Senanur Ates

by WISA

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Team

William Illia Sena Aiysha Sena Aiysha Game Logic Networking **GUI** Art & Music

About the Game

Genre:

- ⊶ 2D Jump and run
- Puzzles Platformer

Players:

🛌 4 players

Game feature:

🗠 2 player per character twist

Goal:

to finish this level through skillful jumping, puzzle solving and cooperation

Level Design

- Platform based / moving Platforms
- Moving cameras
- ⊶Items:
 - 🗰 🗠 Flashlight
 - **⊸**Rope
 - ⊶Boxes

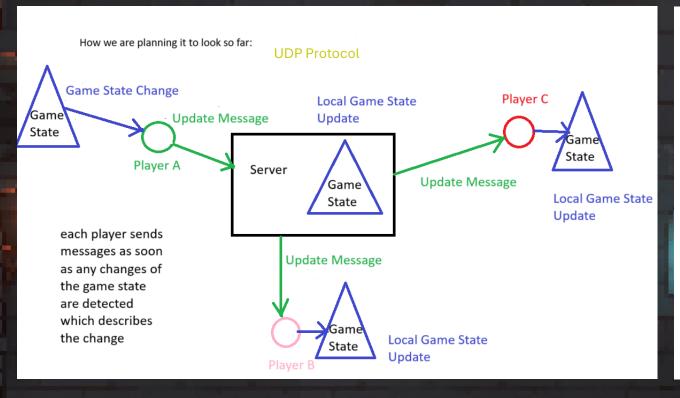
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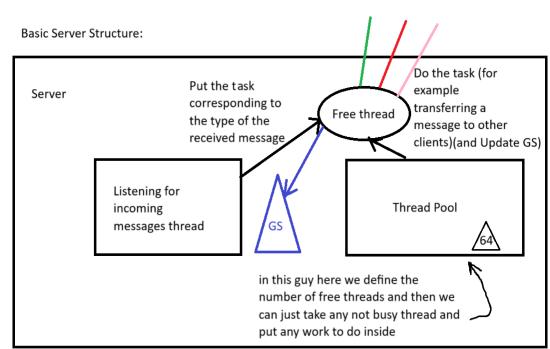


Player one: walking throwing

Player two: Jumping grapping

Networking





MOVE {LEFT} [bob, 100]

Constraints & Assumptions

Technical and Development

- ⊶Java 21
- text-based network protocol
- Designed for standard hardware
- No violent content

Assumptions:

- Players have stable internet connections.
- Game runs on a university-controlled network.
- Uses approved external libraries only

Functional Requirements

Main Features of the Game

- Client-Server Connection
- -Real-time Gameplay Synchronization
- ⊶Obstacle and Puzzle Management
- ⊶ Dynamic Camera System
- ⊶Game State Management
- ⊶ Chat and Communication

Non-Functional Requirements

- ⊶Performance: 30 FPS
- ⊶Scalability: concurrent sessions
- Security: encrypted authentication and communication
- ⊶ Collision Detection

Project Planning & Progress

What have we done so far?

- Different project ideas were discussed.
- 🛏 A common project idea was agreed upon.
- Who is good at what? We analyzed the distribution of tasks.
- Everyone did general research on the project and we shared our research with each other.
- The roadmap for Milestone 1 has been created.

Project Planning & Progress

What are the future plans?

- We will implement the Login & Logout system.
- We will handle Ping & Pong message processing.
- We will work on **Encoding & Protocol Validation**
- We will develop the Chat feature, enabling client-to-client communication.

Timeline

27.03.2025 10.04.2025 06.03.2025 01.05.2025 3 2 Mockup Dokumentation Client/ Game-Server logic Protocol Game **GUI** Last Edit rules adjustments Server Game Softdebugging Server **Edit Client** Client Testing ware

15.05.2025

