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PROYEK OOP OPREC NETLAB 2025

ECHOSHIFT

MUSYAFFA IMAN SUPRIADI

About

EchoShift adalah sebuah game action dungeon crawler 2D di mana pemain menavigasi melalui dungeon yang dibuat secara prosedural, melawan musuh, mengumpulkan rampasan (loot), dan maju melalui beberapa level. Game ini dibangun menggunakan Unity Engine dan dilengkapi dengan sistem UI yang lengkap, termasuk menu utama, fungsionalitas jeda (pause), dan layar game over.

Fitur Utama

Core Gameplay

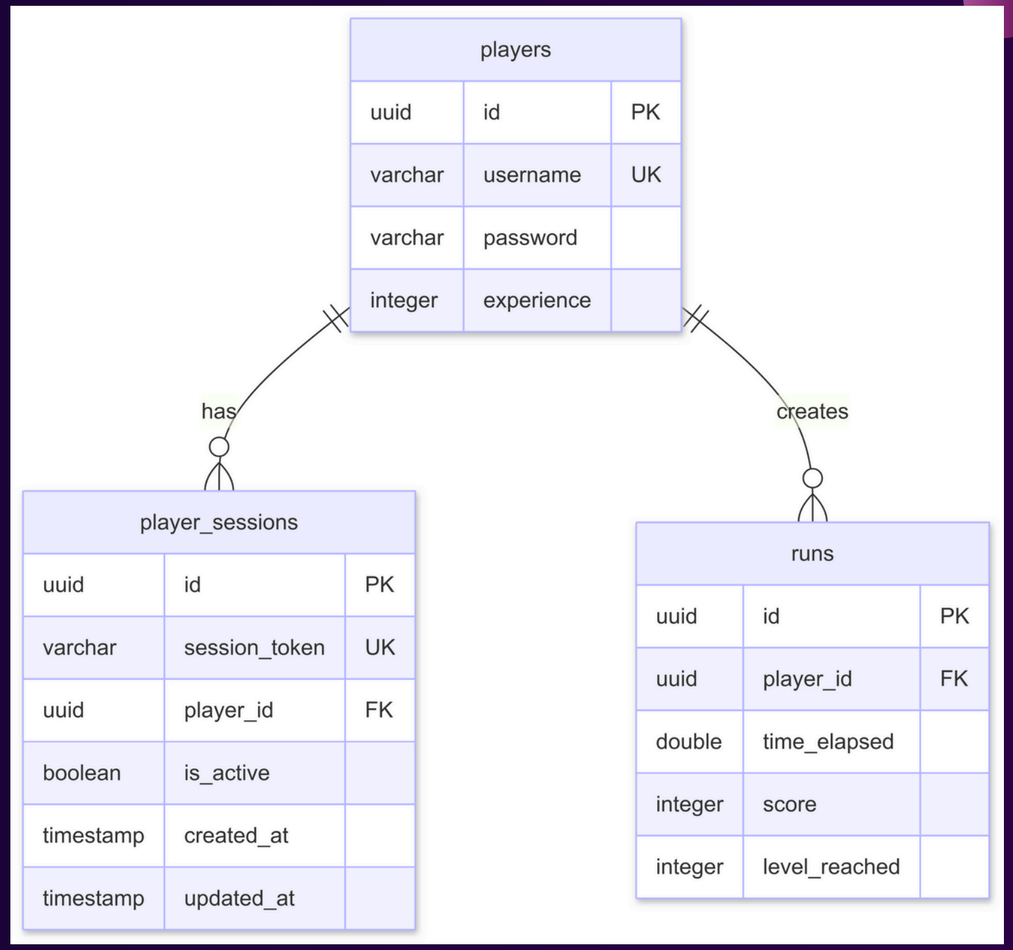
Procedural Dungeon Generation
Combat System
Enemy AI
Sistem Loot
Sistem Health

Technical Features

Mobile Support
Manajemen Audio
Run Tracking
Integrasi API
Dukungan Multi-Platform

UI Systems

Login/Register Functionality
In-game HUD
Pause Menu System
Game over screen
Mobile-friendly controls



Backend

Database Schema

- **players**: User accounts with username, password, and experience points
- **player_sessions**: Active user sessions with authentication tokens
- **runs**: Individual game run records with score, time, and level data

API Endpoints

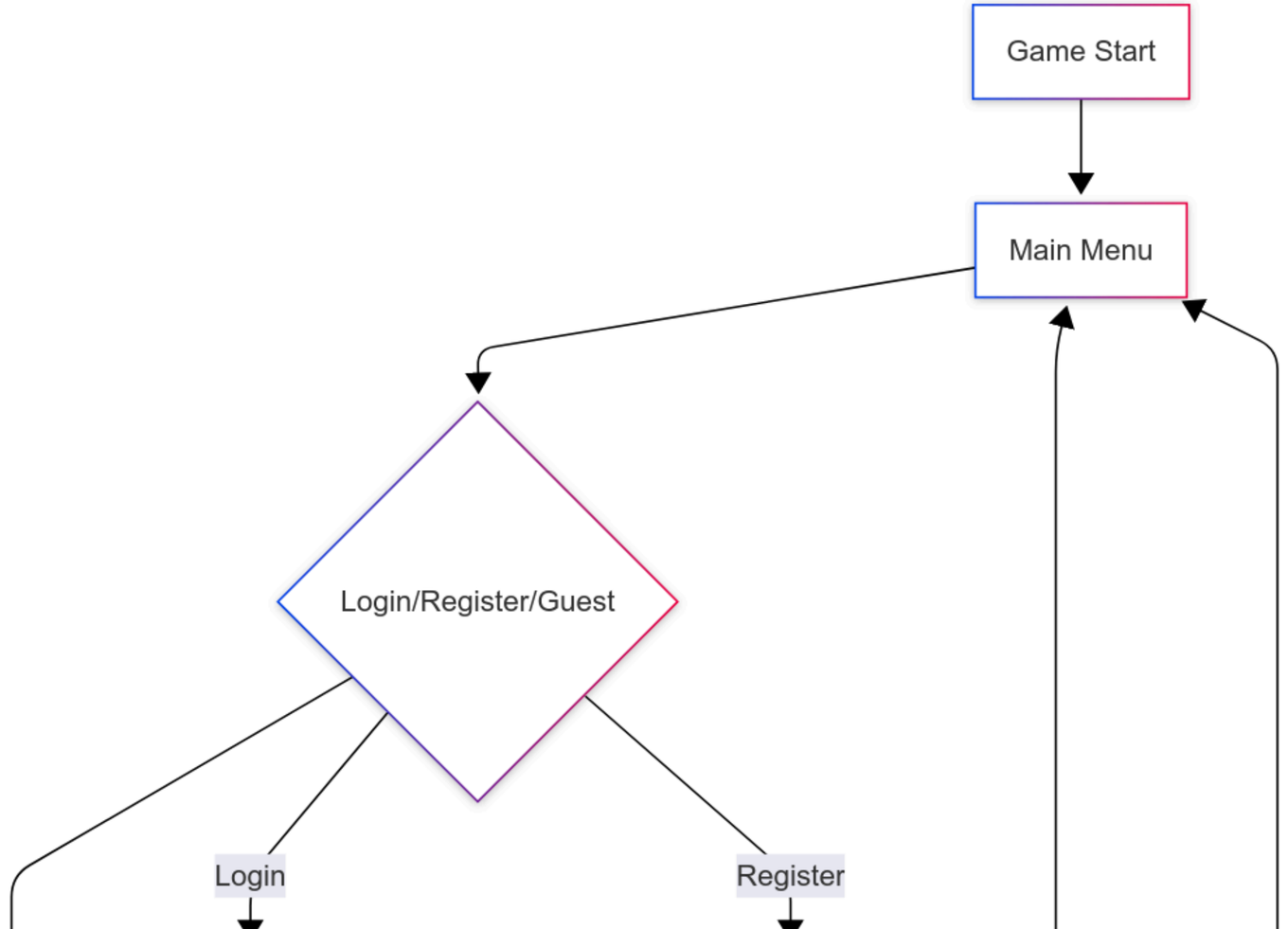
Authentication

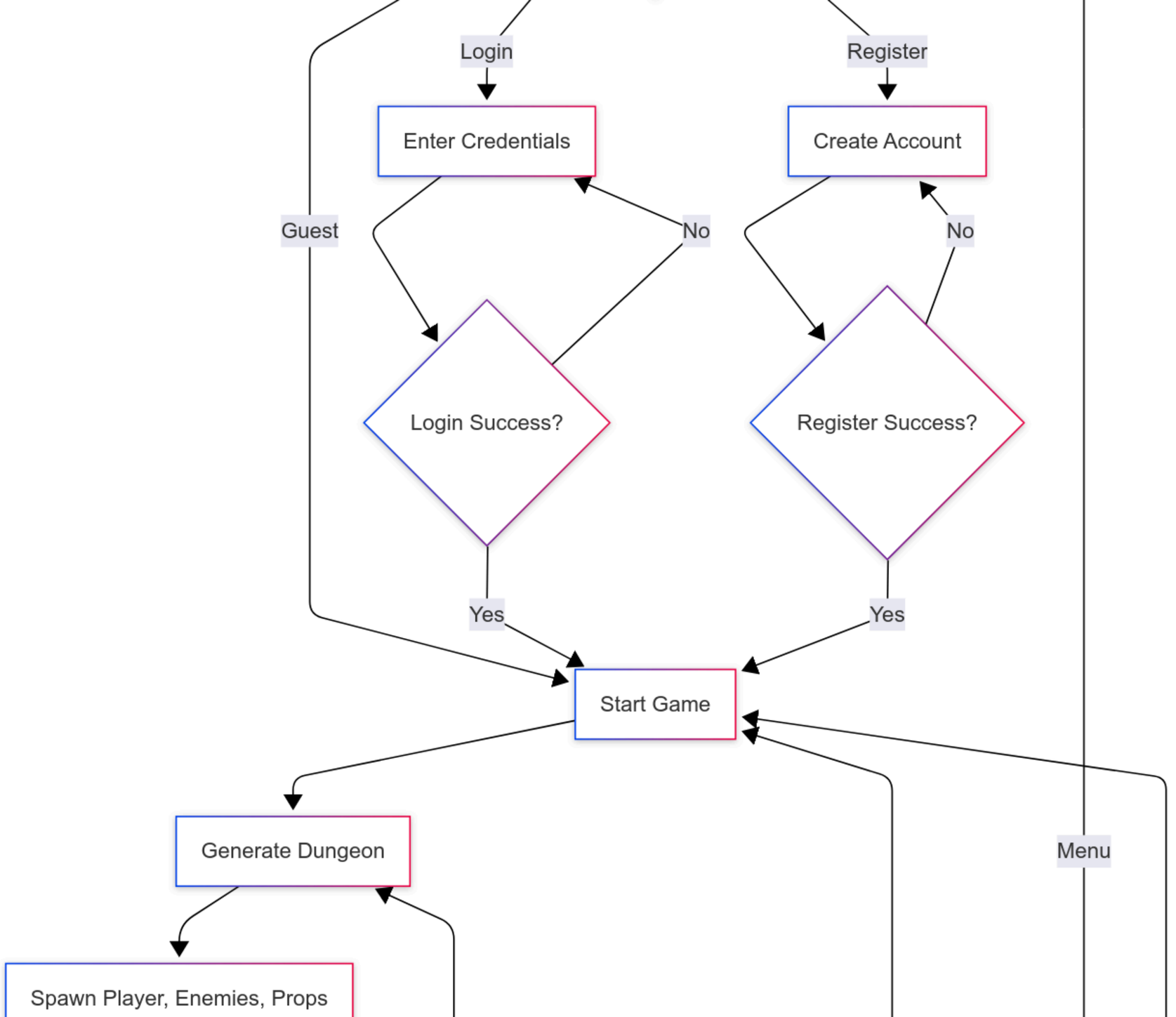
- **POST /api/players/register** - Register new player account
- **POST /api/players/login** - Player login with credentials
- **POST /api/players/logout** - End player session
- **DELETE /api/players/{id}** - Deletes player
- **GET /api/players/session/validate** - Validate current session token

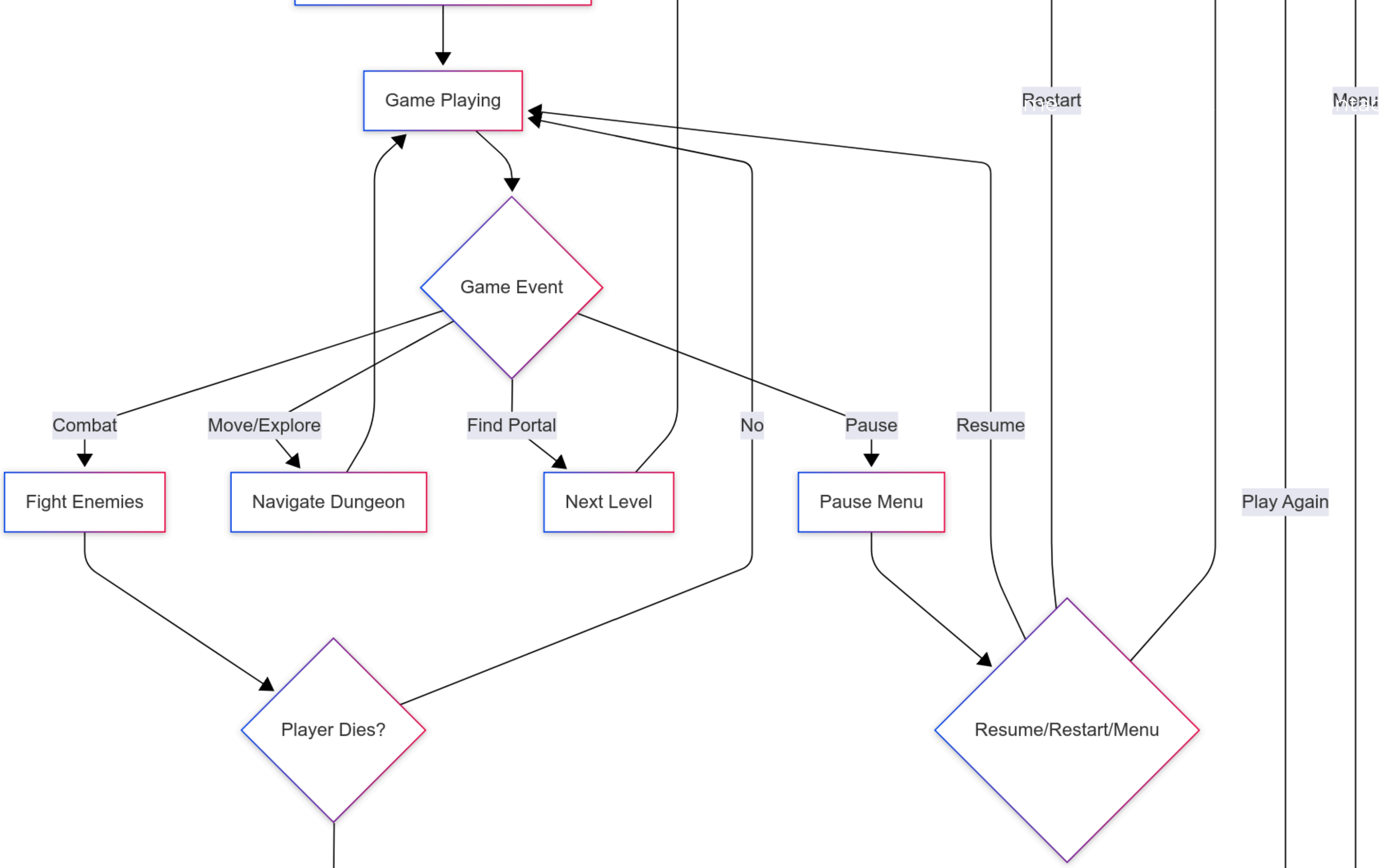
Game Runs Management

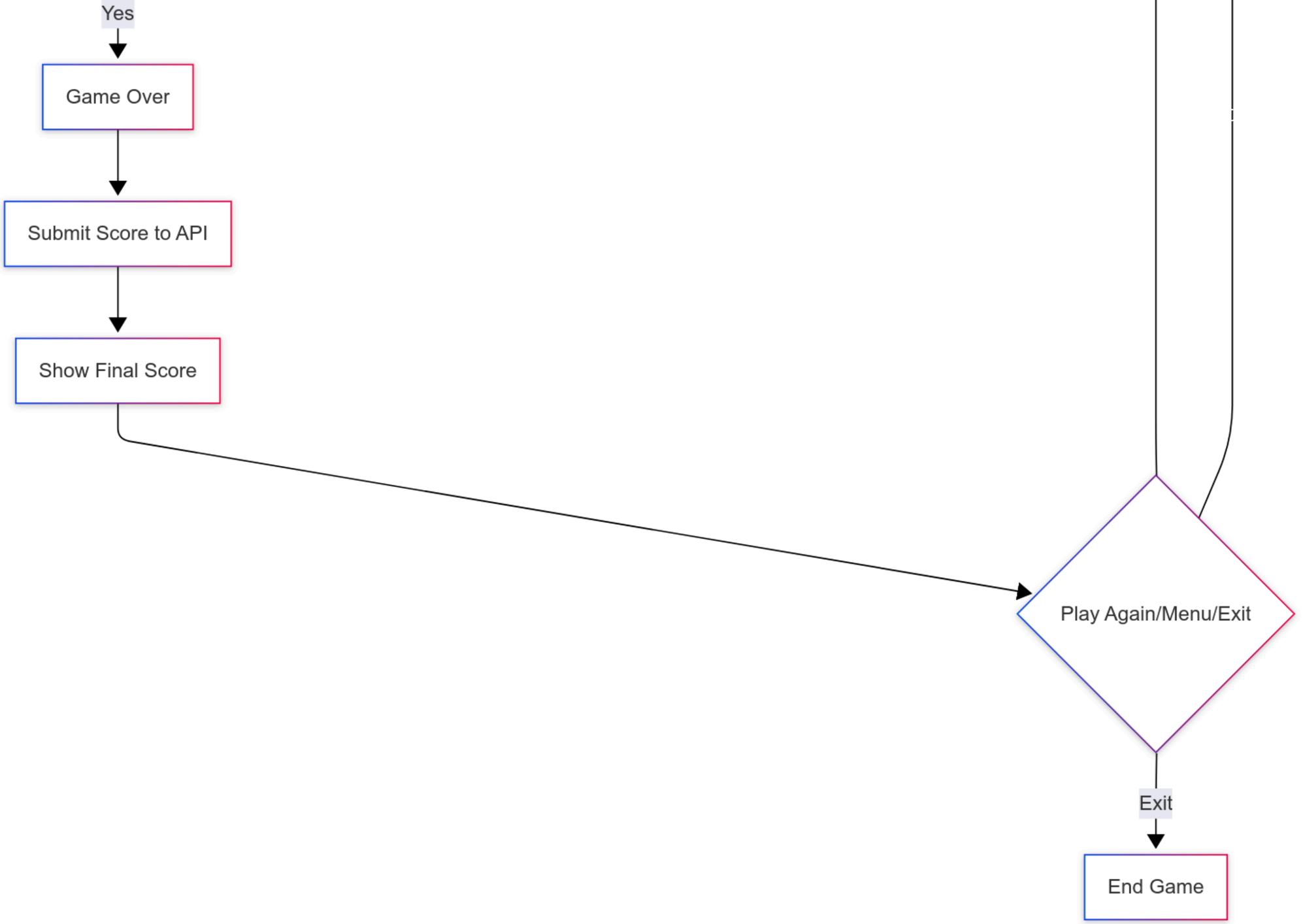
- **POST /api/runs** - Start new game run
- **PUT /api/runs/{id}** - Update run progress during gameplay
- **PATCH /api/runs/{id}/end** - End game run and finalize score
- **GET /api/runs/{playerId}** - Get all runs for specific player

Alur Game




Login
Register
Enter Credentials
Create Account
Guest
No
No
Login Success?
Register Success?
Yes
Yes
Start Game
Generate Dungeon
Menu
Spawn Player, Enemies, Props


Game Playing
Game Event
Combat
Move/Explore
Find Portal
No
Pause
Resume
Restart
Menu
Play Again
Fight Enemies
Navigate Dungeon
Next Level
Pause Menu
Player Dies?
Resume/Restart/Menu


Yes
Game Over
Submit Score to API
Show Final Score
Play Again/Menu/Exit
Exit
End Game

THANK YOU

FOR YOUR ATTENTION