Design Document and Guide for Backend RESTful API for XO (Tic-Tac-Toe)

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This document will show my assignment design for Backend internship position at ACUITMESH CO., LTD.

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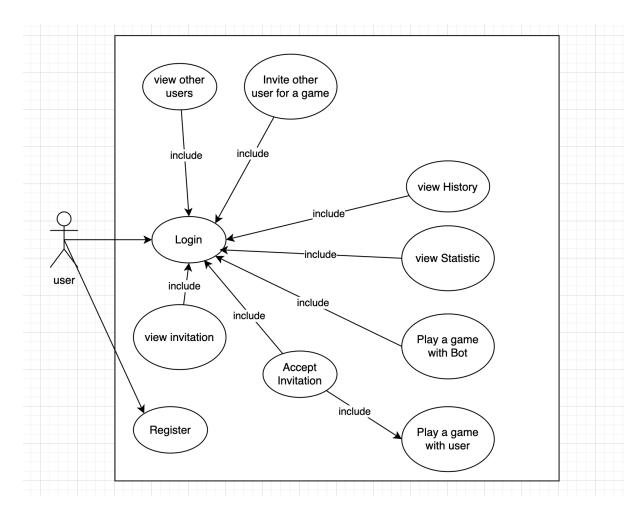
- 1. Tech Stack
- 2. Use Case Diagram
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Tech Stack

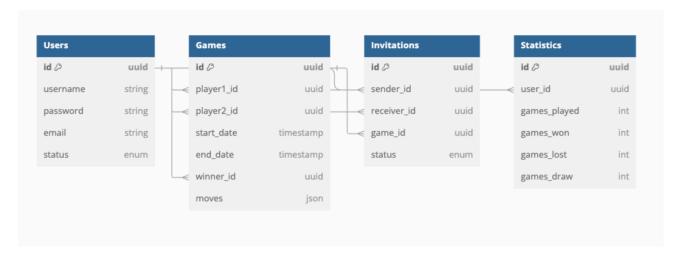
Backend Framework: NestJS

Database: MongoDB

Use Case Diagram

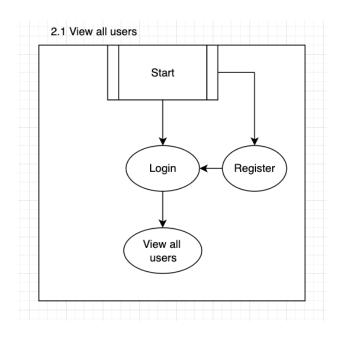


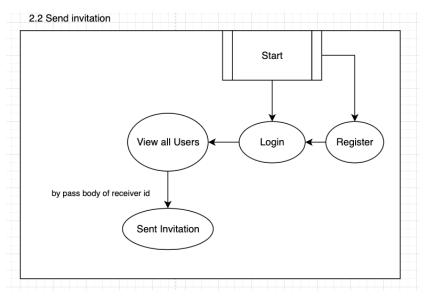
ER Diagram

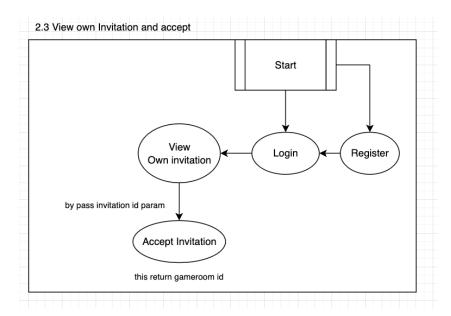


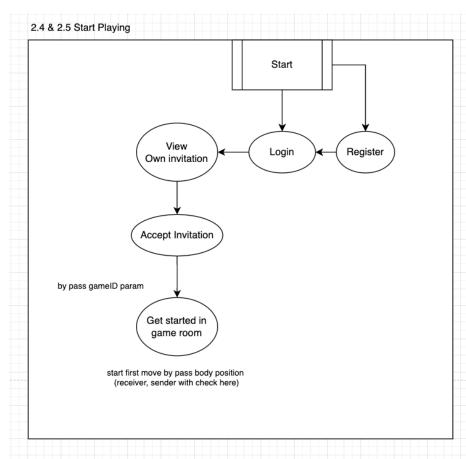
Instruction guide

Happy Flow

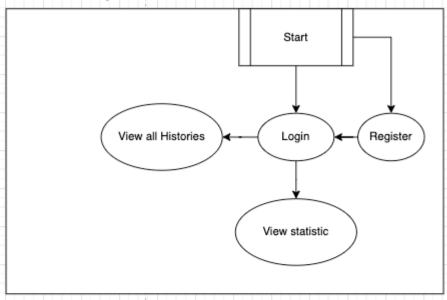




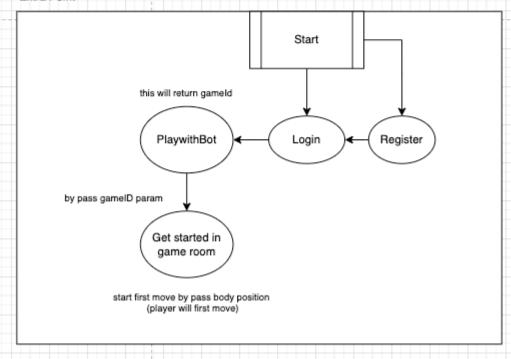




2.6 View own history and statistic

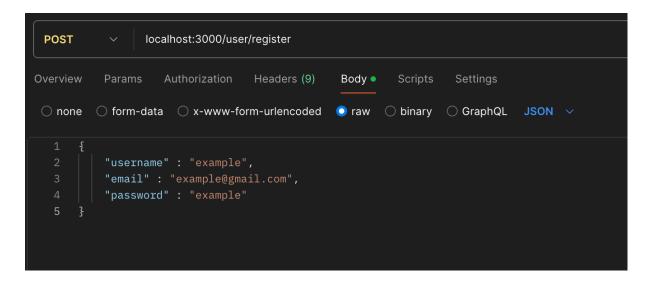


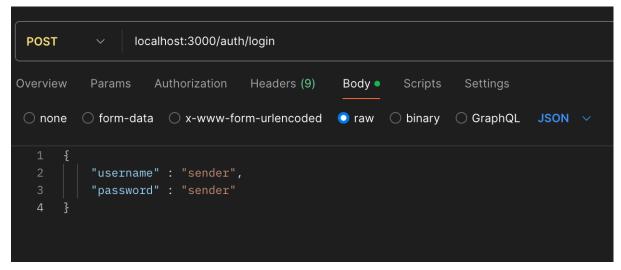
Extra Point



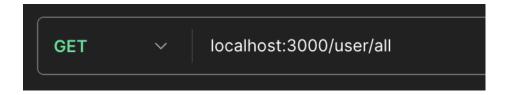
Postman Guide

1. Register & Login

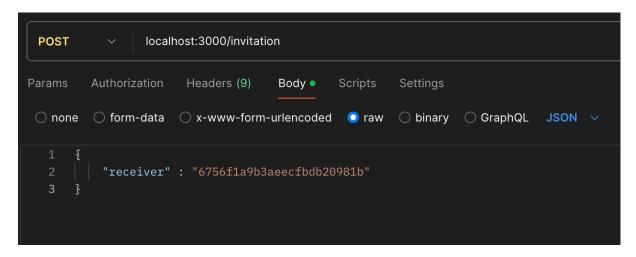




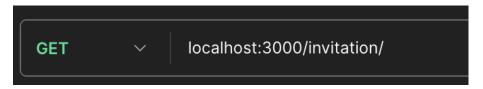
2. 1 View all users (after login)



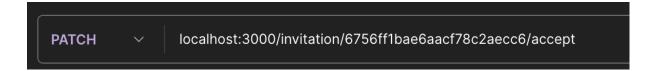
2.2 Send Invitation (Use id of user from 2.1 view all users)



2.3 View all own Invitation (After Login)



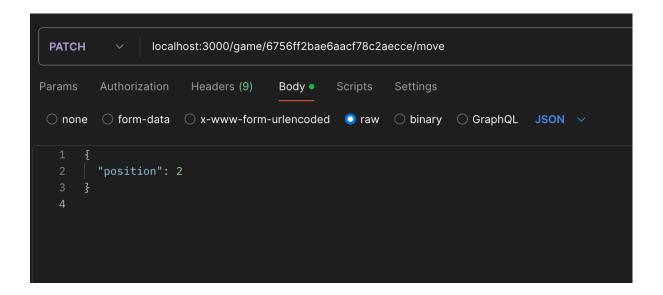
2.3.1 Accept Invitation (passing params ex. /invitationId/accept) invitationId will showing in 2.3 or after sent invitation



2.4 & 2.5 Get in to gameId(after accepted you will get the gameId) and first action (if the user is the receiver in the game).
At params passing /gameid/move.

At Body passing position

Position defination

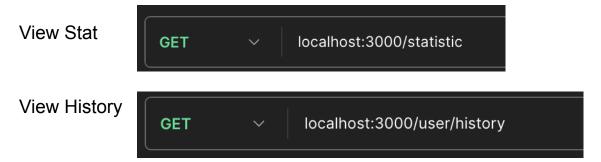


Guide:

Could try this by Login1 and Login2 Collection on first collection for playing this game or function

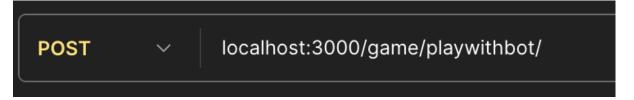
it will show if your turn or not when patching

2.6 History & Statistic



Extra Point

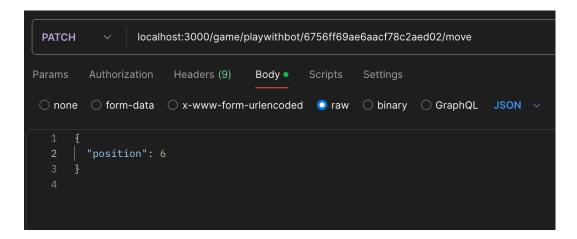
User will get the gameld by using this



Then user have to get in the game by passing

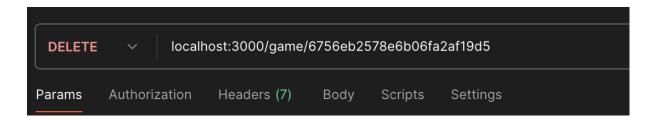
params: /playwithbot/gameId/move

Body: position



Extra Command

This will disconnect the game but not delete by passing gameID



Postman WorkSpace Invitation:

https://app.getpostman.com/join-team?invite_code=c366e02704fe9bb121c53 27c783d1ccd&target_code=2e3e7d179a164c32e3e64c22eb570263

How to Run the project

- git clone this repository
- add .env file
- cd to the project (nest js folder) and npm i
- npm run start:dev