Name of our Application: WE Game

Functionality:

-- Provide a platform for gamers to find teammates in a certain domain, say people in a school. This would help gamers to social.

-- Users can create "lobbies" which would have information on what game they play and include ways to communicate such as a discord link etc.

-- The lobby owner would have the ability to ban a player from the lobby, in case of trollers.

-- Users could search game names, lobby names, or even lobby owners' names.

-- Users could create accounts.

User stories:

-- If a user wants to start finding people who are playing a certain game. The user would create a "lobby" and put some information about how to connect to him in the lobby such as where to find the user in game or a discord link or just simply a user ID in some gaming platform for PM purposes. Other people who have the same interest would be able to join and start playing together. If at any time a user behaves irresponsibly, the owner can ban the user and the banned user can not rejoin the same lobby ever again.

--If a user wants to know if someone in the community is playing certain games. He or she could search the game title and find if there is any existing lobby. The user then would join the lobby and start connecting to the existing players in the lobby.

Technical design and architecture:

-- User Table: Stores the user's user id, created lobby id, username, and profile

-- Lobby Table: Stores the lobby's id, owner's id, other gamer's id, game name, banned player, and lobby description

-- The backend would be static and RESTful, we will use Spark because JS is not static.

-- When searching for items, we would use elasticsearch for fuzz searching.

-- The frontend will use node.js. Template will be chosen from internet.

-- Each user can create their own account with password on frontend page. After successful logging, they will be directed to the lobby page.

Tools and frameworks:

-- Postgres database on Heroku

-- JDBC Backend

-- Java Spark Framework

-- Elasticsearch for searching existing lobbies

Name and roles:

Kenan Xu: Frontend
Yuanhai Tan: Backend
Lixuan Qiu: Database