Space Intruders

Our app, Space Intruders, is a competitive game that will connect two devices so they can play against each other. The gameplay takes inspiration from the vastly inferior game, Space Invaders. This game will keep track of scores, persisting them to a database, and it will allow users to share their scores. Also, Space Intruders will enable users to customise their settings according to their preferences. The motion of player avatars during games will be controlled by the tilting of the screen, which will involve links to the internal sensors of the phone. Additionally, various user senses will be enthralled by the magical and mysterious and mystical deliberate use of sounds and vibrations. Welcome to Space Intruders.

User Stories

U01 - Find opponents

As a user, I want to be able to find other players and have their devices be listed on a screen
- AC1: Have a button that enables users to configure their wifi
- AC2: Have a button that finds nearby players when clicked
- AC3: Obtain device names for those players
- AC4: List the obtained device names on a screen

U02 - Start game

As a user, I want to be able to select an opponent and start a game with them
- AC1: Allow a user to select an available player to play with
- AC2: The app should connect with the selected player
- AC3: The app should display the current score
- AC4: The app should allow for player avatar movement controlled by screen orientation
- AC5: The app should allow for player shooting
- AC6: The app should display enemy projectiles

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U03 - End game

As a user, I want the game to have termination conditions so the match can end
- AC1: The app should allow a user to win
- AC2: The app should allow a user to lose
- AC3: Upon ending a match, a user should be taken to another screen displaying the correct outcome, their score, and the options to rematch, share their score, or return to the home screen

U04 - Rematch with opponent

As a user, I want to be able to request a rematch with the player I just played against
- AC1: There should be a rematch button that sends a rematch request to the previous opponent
- AC2: The rematch request should be acceptable, taking both players into a new game
- AC3: The rematch request should be refusable, without redirecting any users

U05 - Scores

As a user, I want to view a list of persisted high scores
- AC1: Scores should be persisted to a database
- AC2: Scores should be matched with their players
- AC3: There should be a button that takes users to a screen displaying the highest scores
- AC4: It should be possible to sort scores on the scores screen

U06 - Settings

As a user, I want to be able to customise various aspects of the game
- AC1: A button should take users to a settings page
- AC2: I should be able to set/edit my unique username
- AC3: I should be able to change the colour of the app
- AC4: I should be able to use a dropdown box to change between Dark Mode, Light Mode, and the automatic default

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