HunterQRHunter App

Responsibilities:
- Allow the player to hunt for QR/bar codes and earn points by scanning them
- Unique ID for each device

Collaborators:
- Player
- Point
- QR/Bar Code

QR/Bar Code

Responsibilities:
- Have a value in points that can be given to a player
- Be able to compare to other hashed values on the server

Collaborators:
- Point
- Player
- Photo

Map

Responsibilities:
- Display locations

Collaborators:
- Location

Location

Responsibilities:
- Track the location of QR/bar codes
- Store user comments on specific QR/bar codes
- Store point value associated with a location
- Have a human-readable name for each QR/bar code
- Have a unique visual for each QR/bar code
- Be stored server-side

Collaborators:
- Map
- QR/Bar code
- Player
- Point

Server

Responsibilities:
- Store total point value for each player
- Ensure username Uniqueness
- Store player points leaderboard
- Store locations
- Identify each user by their unique device ID

Collaborators:
- Player
- Point
- Location
- HunterQRHunter App

Point

Responsibilities:
- Represent the value of a QR/Bar code using a hashing algorithm
- Be stored Server-side

Collaborators:
- QR/Bar Code
- Player
- Location

Player

Responsibilities:
- Use Camera
- Look at map
- Mark locations on the map (optional)
- Have a Username
- View profile details (contact information)
- Add/Remove QR codes from account
- View top scoring/lowest scoring QR code
- View scanned QR codes
- View and search for other player profiles
- Comment on QR codes
- View profile leaderboard

Collaborators:
- Camera
- Point
- Map
- Location
- HunterQRHunter App
- Server

Camera

Responsibilities:
- Take Photos

Collaborators:
- Player
- Photo

Photo

Responsibilities:
- Be a representation of the QR/Bar code in the application
- Be stored Client-side

Collaborators:
- Camera
- Point
- QR/Bar Code