LoginController

• Match current device ID with a device ID of a user account ID in the database • Load user data • Instantiate a user account associated with that device ID as the genesis ID if its a new device ID and add that to the database	• User • LoginQRCodeMaker

LoginQRCodeMaker

• Make a unique QR code of the user's account ID so the user can log in from another device	• User

QR Code

• Represent QR code • Have associated comments • Have a location Boolean • If location Boolean is true, then have a geo location; else no	• User • Comments • Map ? • QRCodeController • DatabaseController

QRCodeController

• Display score • Display comments • Facilitate adding comments • Display list of users who have this QR code	• QRCode • User

QRCodeHasher

• Calculate a SHA-256 hash of a QR Code • Calculate Score	• QRCode • QRCodeController

MapController

• Get user location • Show where the user is • Show where nearby QR codes are	• QRCode • User

Comment

• Represent a comment by a user	• QRCode • User • DatabaseController

Owner

• Special log in authorization • See entire database • Delete bad QR codes • Delete big images • Delete players	• QR Code • User • DatabaseController ?

User

• Take pictures of QR codes • View their QR codes by date and score • View their total score/total # of QR codes • Delete their QR codes • Take pictures of location • Record geo location of QR code • View map • View other player's profiles via Leaderboard • Generate QR code for logging in and for others to see game status	• QRCode • DatabaseController • Comment • Map • Leaderboard

LeaderboardController

• Represent leaderboard • Facilitate search for player • Click into a player to see player profile	• User

ProfileController

• Show QR codes of user • Show score of user	• QR • User