

# Model

Player
Collaborator: Database, Camera, Comment, DisplayPlayerInfoButton
Responsibility: represent a player and keeps its corresponding information

Database
Collaborator: QrCode, Player, Geolocation
Responsibility: stores the information of players and QR codes

QRCode
Collaborator: QrCodeScanner, Database
Responsibility: store corresponding QR Code

QrCodeScanner
Collaborator: QRCode, ScanningButton
Responsibility: Scan photo and process it to return the QrCode

Geolocation
Collaborator: Database
Responsibility: represent and stores the corresponding information of a location

Comment
Collaborator: Player
Responsibility: represent and store the corresponding information of a comment

Camera
Collaborator: QrCodeScanner
Responsibility: Implement with the functionality of taking pictures

# View

Profile
Collaborator: DisplayPlayerInfoButton, Player
Responsibility: Displays player's corresponding data, provides UI to update Player

Map
Collaborator: Database, Geolocation
Responsibility: Displays nearby QR codes

Login
Collaborator: Player, Database
Responsibility: Allowing user to login

Leaderboard
Collaborator: Player, Database
Responsibility: Displays top players as a list

PlayerSearchPage
Collaborator: Player, Database
Responsibility: Implements interface to search for other players

# Controller

DisplayPlayerInfoButton
Collaborator: Database, Player
Responsibility: represent a Player

ScanningButton
Collaborator: QRCode, DataBase
Responsibility: Open camera for scanning

DisplayNearbyCodeButton
Collaborator: Database, QRCode map
Responsibility: Display nearby QRcode

SearchPlayerButton
Collaborator: Database, player
Responsibility: search for other users using username

ConfirmLogin
Collaborator: Database, player, Login
Responsibility: confirm login

WriteComment
Collaborator: Database, player, Comment, Profile
Responsibility: A Edit text that retrieve comment and store comment about a QRCode in the database.