# Model

# View

# Controller

#### **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

#### **Profile**

Collaborator: DisplayPlayerInfoButton, Player

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

### Мар

Collaborator: Database, Geolocation

Responsibility: Displays nearby QR codes

#### Leaderboard

Collaborator: Player, Database

Responsibility: Displays top players as a list

#### **PlayerSearchPage**

Collaborator: Player, Database

Responsibility: Implements interface to search for other players

## CollectionActivity

Collaborator: CommentActivity, Databas

Responsibility: the activity to show the

DisplayPlayerInfoButton

Collaborator: Database, Player

Responsibility: represent a Player

#### ScanningButton

Collaborator: QRCode, DataBase

Responsibility: Open camera for scanning

#### DisplayNearbyCodeButton

Collaborator: Database, QRCode

Responsibility: Display nearby QRcode

#### SearchPlayerButton

Collaborator: Database, player

Responsibility: search for other users using username

## WriteCommo

Collaborator: Database, player, Comme

Responsibility: A Edit text that retrieve about a QRCode in the database.

### PlayerSearchPage

Collaborator: Database, player

Responsibility: Implements interface to search for other player

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nt, Profile

comment and store comment

#### Camera

Collaborator: QrCodeScanner

Responsibility: Implement with the functionality of taking pictures

CommentActivitiy

Collaborator:

collection Page

CollectionActivity, Databas

Responsibility: the activity to show the comment of the QR code

CommentActivitiy

Collaborator: Database

Responsibility: the activity to show the friend page

FriendPageActivity

Collaborator: Database

Responsibility: the activity to show the friend page

**MapsActivity** 

Collaborator: Database

Responsibility: represent the map Activity

QRCodeActivity

Collaborator: CollectionAcitivity, DataBase

Responsibility: the activity to show the QR code information page

ScannedBarcodeAcitivity

Collaborator: QRCode, DataBase

Responsibility: the activity to scan the QR code

## ScoreBoardActivity

Collaborator: CollectionActivity, DataBase

Responsibility: the activity to show the scoreboard

# SearchActivity

Collaborator: Player, DataBase

Responsibility: the activity to show the search page