Comment (Entity)

- Store which user it came from
- Store the message of the user

User (Entity)

• Store User info • Store admin status • Store Devices associated with the user • Store QR Codes associated with user	• QRCode • LeaderBoard Controller

QRCode (Entity)

• Store QR Code worth • Store QR Code image URL (if any) • Store QR Code location (if provided) • Store which users have it	• User • QRCodeController

CurrentUserHelper

• Store the Name, and personal info about user • Store hardware Unique ID • Store Current Location • Store Firebase ID of their user document	• QRCodeController • LeaderBoardController • FireStoreController

LocationHelper

• Constantly update the user location • Call the location-changed listeners once the new location is stored	• CurrentUserHelper • LocationUpdatedListeners

QRCodeDialog

• Display QR Codes to view profile • Display QR Code to transfer profile	• QRCode • User

FireStoreController

• Save / Retrieve QR Codes • Save / Retrive Users • Save / Retrive Comments • Save location Images	• User • QRCode • Comment • QRCodeController • LeaderBoardController

QRCodeController

• Save / Update QR Code To Firebase • Find worth of QR Codes • Respond to certain QR Code activities (View profile & Transfer profile) • Add location to QRCode	• CurrentUserHelper • QRCode • User • FireStoreController

LeaderboardController

- Organize users listed by rank
- Filter Users based on the search term
- Calculate current user's rankings

- User
- CurrentUserHelper
- FireStoreController

SplashScreenActivity

- Navigate to the correct next activities based on owner status.
- Populate CurrentUserHelper

- FireStoreController
- CurrentUserHelper

ViewProfileActivity

- Display profile
- Display options to generate QR Codes to View and Transfer profiles
- Display all user's QRCodes
- Redirect to comments
- Redirect to specific QR Code

- QRCode
- User
- CurrentUserHelper
- QRCodeDialog

EditProfileActivity

- Save changes to user
- Display current user info

- FireStoreController
- User

User (Role)

• Take Pictures of QR Codes	• QRCode
• View their QR Codes	• Comment
• View their total QR Codes Score and Number	• Leaderboard
• Delete their QR Codes (Optional)	• FireStoreController
• Take pictures of location	
• Record GeoLocation	
• View Map	
• View other players	
• Generate QR Codes to share / transfer profile	
• Comment on QR Codes	

Owner (Role)

• See / Delete any players	• QRCode
• See / Delete any QR Code	• User
	• FireStoreController