

UserInformation	
<ul style="list-style-type: none"><li>Represents the basic information of a user</li><li>Has the username, password, firstname, lastname, score, QRCode</li></ul>	<ul style="list-style-type: none"><li>QRCode</li></ul>
Comment	
<ul style="list-style-type: none"><li>Represents the comment by user to a QRCode</li><li>Has the date, author, content of the comment</li></ul>	
QRCode	
<ul style="list-style-type: none"><li>Represents the scannable code</li><li>Has the comment, location, score relating to the code</li></ul>	<ul style="list-style-type: none"><li>UserInformation</li><li>Comment</li><li>MyCryptographyController</li><li>Game</li></ul>
Game	
<ul style="list-style-type: none"><li>Represents basic information of a game session</li></ul>	

<b>UserScoreGameSession</b>	
<ul style="list-style-type: none"><li>Represents the basic information of a user in a single game session</li></ul>	<ul style="list-style-type: none"><li>CalculateScoreController</li></ul>
<b>CustomListRankingController</b>	
<ul style="list-style-type: none"><li>Custom adapter for showing all the ranking of the players based on total score</li></ul>	<ul style="list-style-type: none"><li>RankingActivity</li><li>UserScoreGameSession</li><li>UserInfo</li></ul>
<b>CustomListviewAllCommentController</b>	
<ul style="list-style-type: none"><li>Custom adapter for showing all the comment of a QR Code</li></ul>	<ul style="list-style-type: none"><li>ViewAllCommentActivity</li></ul>
<b>CustomListViewAllQRCodeController</b>	
<ul style="list-style-type: none"><li>Custom adapter for showing all the QR codes of the user</li></ul>	<ul style="list-style-type: none"><li>ViewAllQRCodeActivity</li></ul>
<b>CalculateScoreController</b>	
<ul style="list-style-type: none"><li>Calculate the score from the QRCode</li></ul>	<ul style="list-style-type: none"><li>QRCode</li></ul>

MyBitmapController	
<ul style="list-style-type: none"><li>• Resize the photo</li></ul>	
MyCryptographyController	
<ul style="list-style-type: none"><li>• Hash the input into a string</li><li>• Encrypt/decrypt the string</li></ul>	
MyFirestoreUploadController	
<ul style="list-style-type: none"><li>• Upload the data to the Firestore database</li><li>• Manage the database</li></ul>	<ul style="list-style-type: none"><li>• QRCode</li><li>• Comment</li></ul>
MyPermissionController	
<ul style="list-style-type: none"><li>• Manage interaction for asking the permission</li></ul>	
CustomListChooseGameController	
<ul style="list-style-type: none"><li>• Custom array adapter for the list view in ChooseGameActivity</li></ul>	<ul style="list-style-type: none"><li>• Game</li></ul>

DeviceUniqueIDController	
<ul style="list-style-type: none"><li>Manage getting the device's unique ID</li></ul>	
MainActivity	
<ul style="list-style-type: none"><li>Represents the main activity of the app</li><li>Interface for user to log in/sign up</li></ul>	<ul style="list-style-type: none"><li>MyCryptographyController</li><li>SignupActivity</li><li>UserInfoInformation</li><li>PlayerMenuActivity</li><li>DeviceUniqueIDController</li><li>Game</li></ul>
PlayerMenuActivity	
<ul style="list-style-type: none"><li>Interface showing the main menu for the app, with five buttons represent five major features of the app.</li></ul>	<ul style="list-style-type: none"><li>SearchQRCodeActivity</li><li>RankingActivity</li><li>SearchUsernameActivity</li><li>MyProfileActivity</li><li>ViewAllQRCodeActiviy</li><li>SearchQRCodeActivity</li><li>SearchUsernameActivity</li><li>MyBitMapController</li><li>MyCryptographyController</li><li>CalculateScoreController</li><li>Game</li></ul>

## RankingActivity

- Showing the ranking of the player by their total score

- PlayerMenuActivity
- CustomListRankingController
- MyFirestoreUploadController
- UserInformation
- PlayerProfileActivity
- Game

## SearchQRCodeActivity

- Interface for player to search for QRCode from the map

- PlayerMenuActivity
- MyPermissionController
- QRCode
- UserInformation
- QRCodeInfoActivity
- Game

## SearchUsernameActivity

- Interface for player to search for other player

- PlayerMenuActivity
- UserInformation
- UserProfileActivity
- Game

## SignupActivity

- Interface for player to sign up for the app

- MainActivity
- MyFirestoreUploadController
- MyCryptographyController
- UserInformation
- PlayerMenuActivity
- Game

## ChangeProfileActivity

- Interface for player wanting to change the profile

- MyProfileActivity
- MyFirestoreUploadController
- MyCryptographyController
- Game
- MainActivity

## EstimateMyRankingActivity

- Interface showing the estimate ranking of the player in terms of Max score, Min score, Total score, the number of QR Code

- MyProfileActivity
- UserInformation
- CalculateScoreController
- Game
- UserScoreGameSession

## MyProfileActivity

- Interface showing the information of the player
- Showing option if player wants to change the profile or generate the QRCode

- EstimateMyRankingActivity
- ChangeProfileActivity
- PlayerMenuActivity
- QRCode
- UserInformation
- Game

## CheckSameQRCodeActivity

- Interface to see the list of other players if they have the same QRCode

- QRCodeInfoActivity
- MyCryptography
- QRCode
- UserInformation
- Game

## MapQRCodeActivity

- Displays the location of the QR Code on a map

- QRCode
- QRCodeInfoActivity
- Game

QRCodeInfoActivity	
<ul style="list-style-type: none"><li>Interface showing the information of the QRCode</li><li>Interface for viewing the Photo of the QRCode (If there is)</li></ul>	<ul style="list-style-type: none"><li>CheckSameQRCodeActivity</li><li>ViewAllCommentActivity</li><li>MapQRCodeActivity</li><li>MyPermissionController</li><li>MyBitmapController</li><li>QRcode</li><li>Game</li></ul>
UserProfileActivity	
<ul style="list-style-type: none"><li>Interface showing the profile of the user</li></ul>	<ul style="list-style-type: none"><li>UserInfoation</li><li>MyFirestoreUploadController</li><li>ViewAllQRCodeActivity</li><li>RankingActivity</li><li>SearchUsernameActivity</li><li>Game</li></ul>
ViewAllCommentActivity	
<ul style="list-style-type: none"><li>Interface showing all the comment of the QRCode</li></ul>	<ul style="list-style-type: none"><li>CustomListviewAllCommentController</li><li>MyFirestoreUploadController</li><li>Comment</li><li>QRCode</li><li>Game</li></ul>



UserStatisticsActivity	
<ul style="list-style-type: none"><li>Showing the statistics of the QRCode that player scanned</li></ul>	<ul style="list-style-type: none"><li>ViewAllQRCodeActivity</li><li>UserInfo</li><li>QRCode</li><li>Game</li></ul>
ViewAllQRCodeActivity	
<ul style="list-style-type: none"><li>Displays all the QRCode that player scanned</li></ul>	<ul style="list-style-type: none"><li>UserStatisticActivity</li><li>PlayerMenuActivity</li><li>CustomListViewAllQRCodeController</li><li>MyFirestoreUploadController</li><li>QRCode</li><li>UserInfo</li><li>QRCodeInfoActivity</li><li>Game</li></ul>
ChooseGameActivity	
<ul style="list-style-type: none"><li>Allows user to choose game session or create a new one</li></ul>	<ul style="list-style-type: none"><li>Game</li><li>MyFirestoreUploadController</li><li>CustomListChooseGameController</li></ul>