

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></ul>
CustomListRankingController	
<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>• RankingAcitivity</li></ul>

CustomListviewAllCommentController	
• Custom adapter for showing all the comment of a QR Code	• ViewAllCommentActivity
CustomListViewAllQRCodeController	
• Custom adapter for showing all the QR codes of the user	• ViewAllQRCodeActivity
CalculateScoreController	
• Calculate the score from the QRCode	• QRCode
MyBitmapController	
• Resize the photo	
MyCryptographyController	
• Hash the input into a string • Encrypt/decrypt the string	

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>	
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>• UserInformation</li><li>• PlayerMenuActivity</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></ul>
RankingAcitivity		
<ul style="list-style-type: none"><li>Showing the ranking of the player by their total score</li></ul>		<ul style="list-style-type: none"><li>PlayerMenuActivity</li><li>CustomListRankingController</li><li>MyFirestoreUploadControlelr</li><li>UserInfoation</li><li>PlayerProfileActivity</li></ul>

SearchQRCodeActivity	
<ul style="list-style-type: none"><li>Interface for player to search for QRCode from the map</li></ul>	<ul style="list-style-type: none"><li>PlayerMenuActivity</li><li>MyPermissionController</li><li>QRCode</li><li>UserInfoInformation</li><li>QRCodeInfoActivity</li></ul>
SearchUsernameActivity	
<ul style="list-style-type: none"><li>Interface for player to search for other player</li></ul>	<ul style="list-style-type: none"><li>PlayerMenuActivity</li><li>UserInfoInformation</li><li>UserProfileActivity</li></ul>
SignupActivity	
<ul style="list-style-type: none"><li>Interface for player to sign up for the app</li></ul>	<ul style="list-style-type: none"><li>MainActivity</li><li>MyFirestoreUploadController</li><li>MyCryptographyController</li><li>UserInfoInformation</li><li>PlayerMenuActivity</li></ul>

ChangeProfileActivity	
<ul style="list-style-type: none"><li>Interface for player wanting to change the profile</li></ul>	<ul style="list-style-type: none"><li>MyProfileActivity</li><li>MyFirestoreUploadController</li><li>MyCryptographyController</li></ul>
EstimateMyRankingActivity	
<ul style="list-style-type: none"><li>Interface showing the estimate ranking of the player in terms of Max score, Min score, Total score, the number of QR Code</li></ul>	<ul style="list-style-type: none"><li>MyProfileActivity</li><li>UserInfo</li></ul>
MyProfileActivity	
<ul style="list-style-type: none"><li>Interface showing the information of the player</li><li>Showing option if player wants to change the profile or generate the QRCode</li></ul>	<ul style="list-style-type: none"><li>EstimateMyRankingActivity</li><li>ChangeProfileActivity</li><li>PlayerMenuActivity</li><li>QRCode</li><li>UserInfo</li></ul>

CheckSameQRCodeActivity	
<ul style="list-style-type: none"><li>Interface to see the list of other players if they have the same QRCode</li></ul>	<ul style="list-style-type: none"><li>QRCodeInfoActivity</li><li>MyCryptography</li><li>QRCode</li><li>UserInfoInformation</li></ul>
MapQRCodeActivity	
<ul style="list-style-type: none"><li>Displays the location of the QR Code on a map</li></ul>	<ul style="list-style-type: none"><li>QRCode</li><li>QRCodeInfoActivity</li></ul>
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></ul>

## UserProfileActivity

- Interface showing the profile of the user

- UserInformation
- MyFirestoreUploadController
- ViewAllQRCodeActivity
- RankingActivity
- SearchUsernameActivity

## ViewAllCommentActivity

- Interface showing all the comment of the QRCode

- CustomListviewAllCommentController
- MyFirestoreUploadController
- Comment
- QRCode

## UserStatisticsActivity

- Showing the statistics of the QRCode that player scanned

- ViewAllQRCodeActivity
- UserInformation
- QRCode



ViewAllQRCodeActivity

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|---|--|
| <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>• UserInformation</li><li>• QRCodeInfoActivity</li></ul> |
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