

Class name: Player	
Class Responsibility:	Class Collaborations:
<ul style="list-style-type: none"> <li>• Add new QR codes to account</li> <li>• Remove QR codes from account</li> <li>• Store QR codes added to the account (database?)</li> <li>• Get highest and lowest scoring QR codes</li> <li>• Get the sum of scores of QR codes that have been scanned</li> <li>• Get the total number of QR codes scanned</li> <li>• See other players profiles</li> <li>• Have a profile with a unique username and contact information</li> <li>• Be able to opt out of recording geolocation (privacy reasons)</li> </ul>	<ul style="list-style-type: none"> <li>• GameQRCodes</li> <li>• Scoring</li> </ul>

Class name: GameQRCodes	
Class Responsibility:	Class Collaborations:
<ul style="list-style-type: none"> <li>• Store comments (database?)</li> <li>• Keep track of players that have scanned the QR code</li> <li>• Generate a unique human readable name</li> <li>• Generate a relatively unique visual representation of the QR code</li> <li>• Does not record the code (privacy reasons)</li> </ul>	<ul style="list-style-type: none"> <li>• Player</li> <li>• Score</li> </ul>

Class name: Search	
Class Responsibility:	Class Collaborations:
<ul style="list-style-type: none"> <li>• Search for player with player</li> <li>• Search for a Game QR Code</li> <li>• Search for nearby QR code</li> </ul>	<ul style="list-style-type: none"> <li>• Player</li> <li>• GameQRCodes</li> </ul>

Class name: Scoring	
Class Responsibility:	Class Collaborations:
<ul style="list-style-type: none"> <li>• Generate rankings</li> <li>• Get game wide high scores of all players\</li> <li>• Generate a score for a QR code</li> </ul>	<ul style="list-style-type: none"> <li>• Player</li> <li>• GameQRCodes</li> </ul>

Class name: Location	
Class Responsibility:	Class Collaborations:
<ul style="list-style-type: none"> <li>• Have a map of geo-locations of nearby QR codes</li> </ul>	<ul style="list-style-type: none"> <li>• GameQRCodes</li> </ul>