

Player	
Responsibilities	Collaborators
<ul style="list-style-type: none"> <li>- Scan QR codes.</li> <li>- Upload images and location (or decline either).</li> <li>- Comment on QR codes.</li> <li>- Know user ID, scanned QR codes</li> <li>- Be found by other users</li> </ul>	<ul style="list-style-type: none"> <li>- QRC</li> <li>- Image</li> <li>- Comment</li> <li>- Player (View other players' profile)</li> <li>- Leaderboard</li> <li>- Region</li> </ul>

QRC	
Responsibilities	Collaborators
<ul style="list-style-type: none"> <li>- Converted to hexadecimal hash</li> <li>- Have score based on SHA-256 hash</li> <li>- Have unique name and visual representation based on hash nibbles/bytes</li> <li>- May have geolocation and/or image</li> <li>- Allow Players to comment on the QR Code</li> </ul>	<ul style="list-style-type: none"> <li>- Player</li> <li>- Image</li> <li>- Geolocation</li> <li>- Comment</li> <li>- Region</li> <li>- Leaderboard</li> </ul>

Image	
Responsibilities	Collaborators
<ul style="list-style-type: none"> <li>- To be taken</li> <li>- Physical view of where the QR code is real life</li> <li>- May contain geolocation</li> </ul>	<ul style="list-style-type: none"> <li>- Player</li> <li>- QRC</li> <li>- Geolocation</li> </ul>

Geolocation	
Responsibilities	Collaborators
<ul style="list-style-type: none"> <li>- To be recorded</li> <li>- Keep track of longitude and latitude</li> </ul>	<ul style="list-style-type: none"> <li>- QRC</li> <li>- Image</li> <li>- Region</li> </ul>

Region	
Responsibilities	Collaborators
<ul style="list-style-type: none"> <li>- Be unique geological location without overlap.</li> <li>- Be a defined area set for QRc grouping</li> </ul>	<ul style="list-style-type: none"> <li>- Player</li> <li>- Geolocation</li> <li>- QRC</li> </ul>

Comment	
Responsibilities	Collaborators
<ul style="list-style-type: none"> <li>- Know parent player of comment</li> <li>- Know parent QR code</li> </ul>	<ul style="list-style-type: none"> <li>- Player</li> <li>- QRC</li> </ul>

Leaderboard	
Responsibilities	Collaborators
<ul style="list-style-type: none"> <li>- Contain set of ranking for player's QRC</li> <li>- Query DB for pertinent information</li> </ul>	<ul style="list-style-type: none"> <li>- Player</li> <li>- QRC</li> <li>- Region</li> <li>- Geolocation</li> </ul>

Database	
Responsibilities	Collaborators
<ul style="list-style-type: none"> <li>- Maintain persistent collection of data.</li> <li>- Ensure uploaded images to the database are not big.</li> </ul>	<ul style="list-style-type: none"> <li>- Player</li> <li>- QRC</li> <li>- Image</li> <li>- Geolocation</li> <li>- Region</li> <li>- Comment</li> </ul>