| **ID** | **Requirements** | **Use Case** | **Misuse Case** |
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| 1 | Hash passwords before being sent to server. | As a user, I want an account protected with a password so that I can see information related to my user including the current challenges and current level/xp. | As an attacker, I can attack the database and steal the passwords so that I can violate the CIA of the user’s information. |
| 2 | Sanitize SQL inputs. | As a user, I can add my workout data to the app, so that I can track my progress. | As an attacker, I can input malicious/malformed data so that I can impact the CIA of the information in the server/database. |
| 3 | Only store location data on phone. | As a user, I can enable location tracking so that I can automatically track my workout. | As an attacker, I can steal this location data for criminal intent. |
| 4 | Ensure sessions are securely tracked | As a user, I want my data stored in the cloud so that I can access it on another device. | As an attacker, I can send data impersonating the client so as to violate the CIA of the user’s data. |
| 5 | Ensure communication is encrypted between app and server. | As a user, I want my data stored in the cloud so that I can access it on another device. | As an attacker, I can sniff the communication between the client and server so that I can violate the CIA of the server. |

Note: CIA = Confidentiality, Integrity, and Availability