Quality Requirements

Performance

Scalability

Reliability

Security

Choose one of the sections that I have written about to go into detail with quality requirements (FR-C1 or FR-C2 or FR-C3 or FR-C4). I choose FR-C1

*FR-C1. Registration*: The system should enable a user to register with the following data: (*security will be a consideration because personal information is being shared)*

o username,

o password,:

* *implemented to keep accounts secure*
* *Used so that no one with unauthorized access can get in*

o contact email address,

* *if the account is breached or password needs to be changed it is a point of contact*
* *Can be used for added security (e.g. 2factor authentication)*

o contact telephone number,

* Point of contact if account is breached or password change
* Can be used for security (2 factor authentication)

o shipping address [optional],

* Keeping these registered with the account will increase performance because the users won’t have to enter it every time
* However it is also a security consideration

o payment card details [optional].

* *Increase performance because it isn't entered every time*
* *Lots of money can be lost if payment details are stolen, so a very big security concern*

How do the following non-functional requirements relate to the functional requirements of Registration

**Performance:** This is a quality requirement because while it’s not a necessity, good performance and fast response time are important for users. For example, the system should be able to respond within two seconds when you have submitted your username and password.

**Scalability:** Scalability is the idea of whether the system will work if I had a much larger number of users, or did it on a much bigger scale. In this scenario, can the system handle receiving an increasingly growing number of registrations.

**Reliability:** This is whether the system performs consistently and as expected under different conditions. For example, the registration system should work with no crashes or errors, even with an increased number of users.

**Security:** In the registration section there is a lot of sensitive information collected from the users. Good security protects user data from unauthorized access.