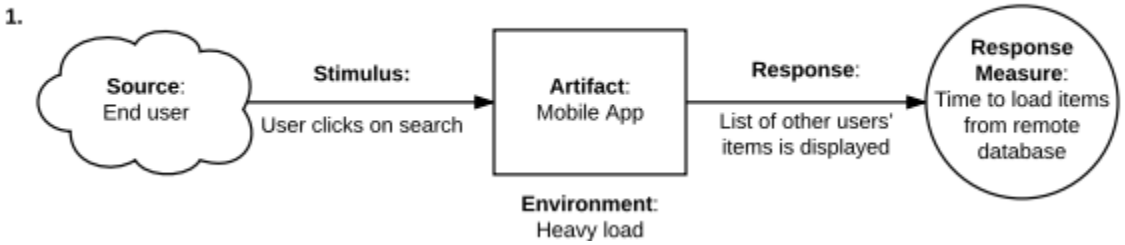
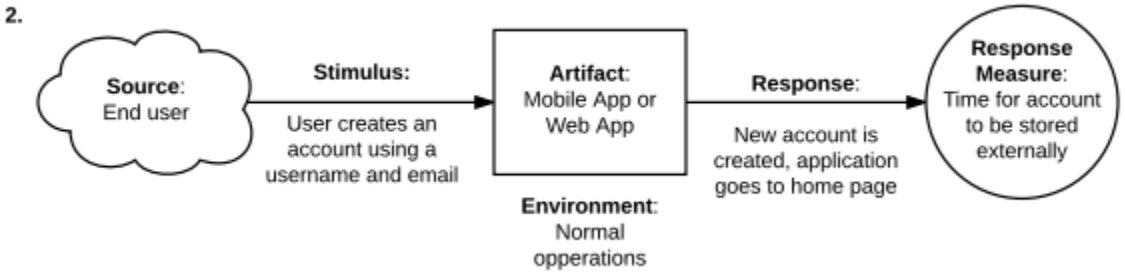
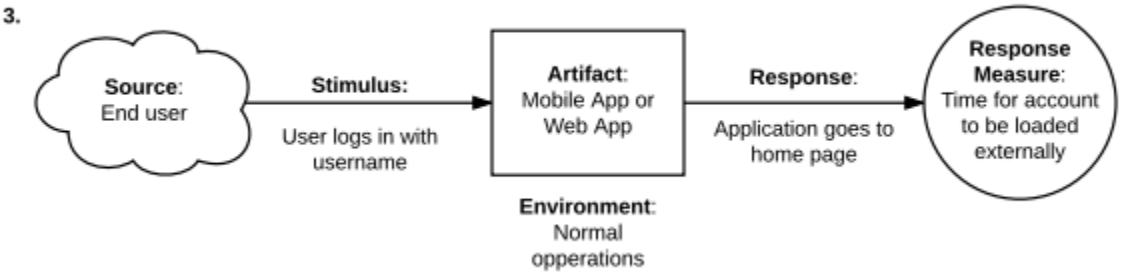
Concrete Quality attributes Evaluation



This quality attribute scenario represents a **risk**. The system may not comply with the ASR requirement “It takes less than 1 second to complete any task”. The system does not complete the search of items in the remote database in less than 1 second which decreases the performance of the system.

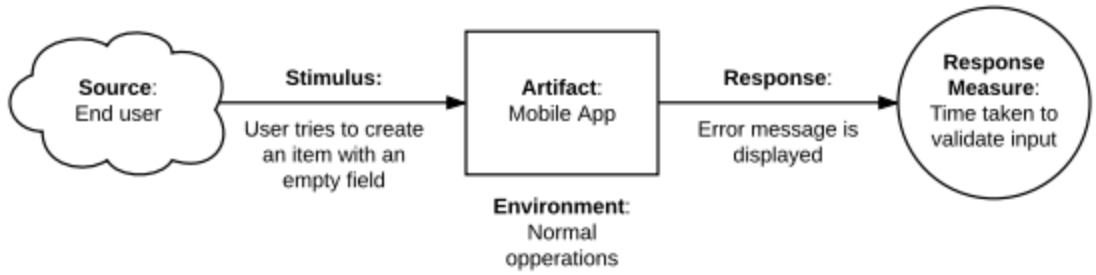


This quality attribute scenario represents a **risk**. Users can login without a password which is a security risk and makes the system is highly vulnerable.



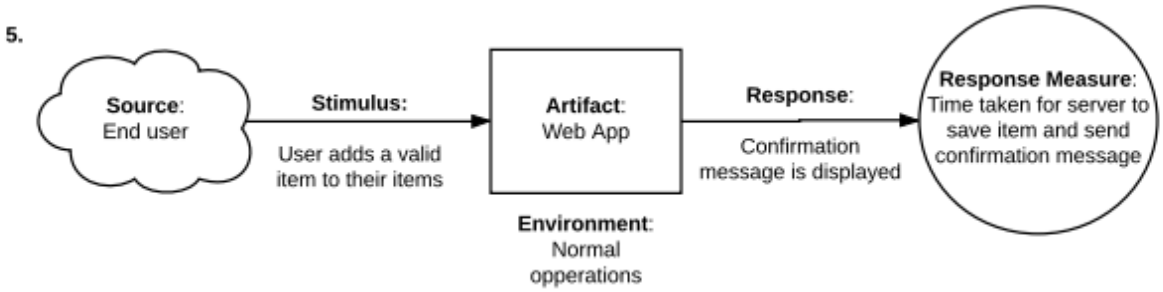
This quality attribute scenario represents a **tradeoff**. Here, performance is traded-off with security. Using both email and username to authenticate a user will decrease performance but will be more secure.

4.



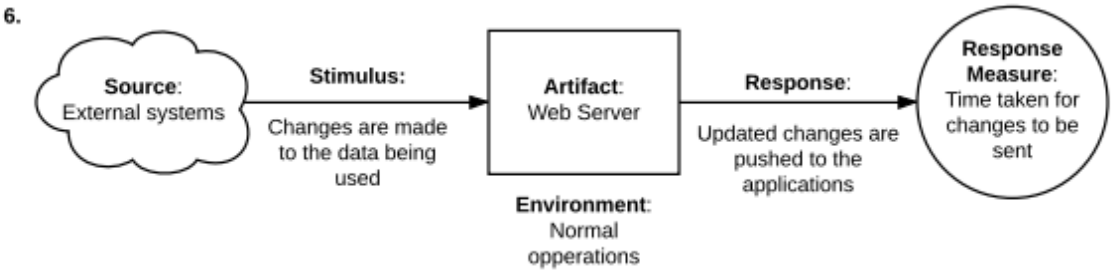
This quality attribute scenario represents a **non-risk**. When the user tries to create an item with an empty field, the system always returns an error message and it is returned in less than 1 second which meets the performance requirement too.

5.



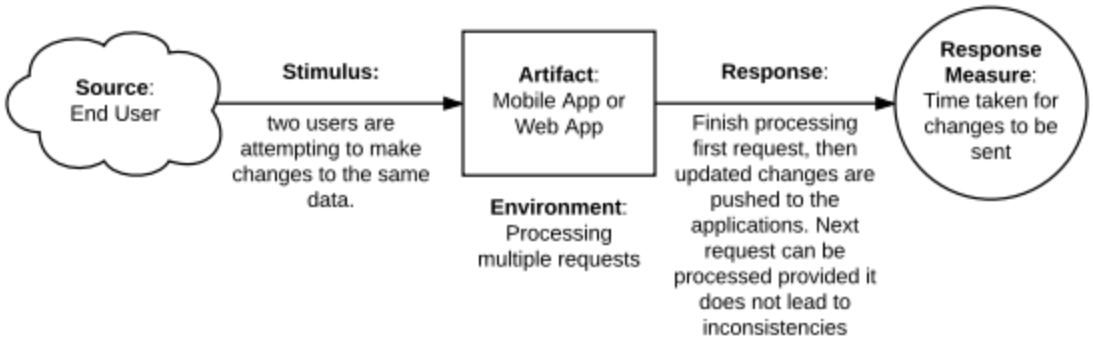
This quality attribute scenario represents a **non-risk**. If the user tries to add a valid item, the system always saves the item and sends a confirmation message in less than 1 second which also meets the performance requirement.

6.



This quality attribute scenario represents a **sensitivity point**. Since, it takes some time for the new data to be synchronized will all instances of the application, other users can be using or making changes to stale data.

7.



This quality attribute scenario represents a **non-risk**. Even if many users are changing the same data, the system puts those changes in a queue and executes them one-by-one and returns the changes in less than 1 second. This prevents data inconsistencies.

Updated Utility Tree