**MANUAL QA**

***Homework - Lesson 4***

**Student Name:** Mario Lima

**Level 1:**

* *Give short examples of requirements (3-5) for any item from your environment that would meet each of the following quality assessment criteria:*
* *Atomic*
* *Consistent*
* *Testable*
* *Traceable*

**Answer:** A water bottle

Atomic:

* The water bottle must have a screw-on cap.
* The water bottle must have a capacity of at least 500ml.

Consistent:

* The water bottle must not leak or drip when properly closed.
* The water bottle must have a consistent design for easy cleaning.

Testable:

* The water bottle must be able to hold water without leaking when tilted in various directions.
* The water bottle must undergo drop tests to ensure durability.

Traceable:

* The water bottle must have a label indicating the manufacturer and model.
* The water bottle must have a batch number for tracking purposes.

**Level 2:**

* *Complete the task of the previous level.*
* *In your opinion, which of the requirements testing techniques guarantees the highest possible quality of the final result? Support your answer (3-5 sentences).*

**Answer:**

There is no single testing technique that guarantees the highest possible quality of the result. Although, review and prototyping can be effective for discovering hidden defects that may not be detected by other testing techniques. But I think that a combination of testing techniques should be used to ensure the highest possible quality of the final result.

**Level 3:**

* *Complete the tasks of the previous two levels.*
* *You are the founder of a startup planning to launch a mobile application for sharing cat photos.*

*Come up with functional (5-7) and non-functional (also 5-7) requirements for the application.*

**Answer:**

1. ***Functional requirements:***
   1. The application must allow users to upload and share cat photos.
   2. The application must have a notification system that alerts users of new cat photos and comments.
   3. The application must have a feature to like and save cat photos.
   4. The application must have a commenting feature that allows users to leave comments on cat photos.
   5. The application must have a search module that allows users to find and follow other cat lovers.
2. ***Non-functional requirements:***
   1. The application must have a responsive design that works well on different mobile devices.
   2. The application must have fast loading times for photos and user profiles.
   3. The application must have an easy-to-use interface that is accessible to a wide range of users.
   4. The application must have good performance even with a high volume of user uploads and downloads.
   5. The application must comply with relevant data privacy regulations.