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:** Requirements should contain only a single element to test;
  + The user should be able to login into the APP only using a face ID
  + The App should allow the user to take a photo by clicking on the button “Take a Photo” on the bottom left corner button
  + The App should allow the user to share a photo by clicking on the button “Share a Photo” on the bottom right corner button
  + The App should allow the the user to like photos from other users by clicking on the on the center of photo that appears in their image feed
* **Consistent:** Requirements should not contradict other requirements
  + Both messages for “Photo taken successfully” and “Photo shared successfully” should appear in a green pop-message on the bottom
  + All dates that reference the submission of the photo should be consistently displayed in the format "MM/DD/YYYY"
  + The user should be able to download the App in either IOS or Android operating systems
  + All hashtags, for when a photo is submitted, should be displayed in a blue color
* **Testable**: Is it possible to verify that requirements have been satisfied?
  + The user should be able to login into the APP in 10 seconds or less
  + The user should be able to upload a maximum of three photos each time when clicking on the button “Upload” on the top corner
  + The user should receive an alert notification, inside the App, when someone comments on their photos
* **Traceable:**
  + The user should be able to login into the APP in 10 seconds or less - **Req. ID 2**
  + The user should be able to upload a maximum of three photos each time when clicking on the button “Upload” on the top corner. **Req. ID 3**
  + The user should receive an alert notification, in the App, when someone comments on their photos. **Req. ID 4**

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

In my opinion, the best way is via “Test cases and checklists”. Through this technique, we can quickly assess if we have high quality requirements that will support the development of the best software possible. One one hand, by making sure that “all requirements must be verified” we ensure that each of the requirements are clear, understandable and align with the intended purpose of the product/feature being developed.

Additionally, using checklists to match requirements with test cases, and already creating the test cases with detailed scenarios and procedures against the requirements in place, can help us facilitate the verification process, and measure the quality and relevancy of our requirements, without taking a lot of our time.

**3. 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.You are the founder of a startup planning to launch a mobile application for sharing cat photos.**

**Functional Requirements:**

* The user should be able to login into the APP using an email address and password.
* The user must insert the first name, last name and age in their user profile before he is able to upload a cat photo.
* The user should be able to upload at least one cat photo by clicking on the button “Upload”, on the top corner.
* The user should be able to upload a maximum of three cat photos each time when clicking on the button “Upload” on the top corner.
* There should be a maximum limit of 90 characters for each description on the uploaded cat photo.
* The user should only be able to use one type of emoji - a cat - when he is writing a description of a photo.
* The user should be able to report uploaded photos with no cats by clicking on the button “Report in the menu

**Non-Functional Requirements:**

* The user should be able to download the App in both App Store and Play Store.
* An user should be able to download the APP in 3 minutes or less.
* The user should receive a welcome email when he first log-in in the App.
* The App should be compatible with both IOS and Android smartphones and Android Tablets
* The App should be available in both English and Chinese, according to the user preference in settings