Урок номер 4

1) Let's take an inflatable balloon. Requirements:

1. Atomicity

The balloon must be inflatable.

The balloon must have a child-friendly, easy-to-use inflation mechanism.

The balloon must have bright colors to attract children's attention.

(Each requirement clearly describes a single property — the balloon's ability to be inflated.)

2. Consistency

The balloon must not burst during normal use.

The balloon must be made of materials without sharp edges or elements.

The balloon must have appropriate dimensions for children aged 3 to 7.

(This requirement does not contradict others, as it addresses the balloon’s quality and safety.)

3. Testability

The balloon must retain its shape and not lose air for at least 24 hours under standard temperature conditions.

The balloon must endure at least 10 inflation cycles without losing its shape.

The balloon must withstand a load of up to 5 kilograms without bursting.

(These are requirements that can be verified through specific tests.)

4. Traceability

The balloon must have a label indicating the manufacturing date and serial number.

The balloon must be made from materials that are safe for health.

The balloon must comply with safety standards, confirmed by certification.

(These requirements can be verified through certificates and material documentation.)

5. Identification

The balloon must be identifiable by a unique serial number for quality tracking and production monitoring.

6. Modifiability

The balloon must be easy to modify if changes to the material or color are required.

7. Completeness

The balloon's description must include all characteristics such as material, color, size, and maximum operating temperature.

8. Specification Completeness

All functional characteristics of the balloon must be described within a single section of the specification: material, color, size, and inflation instructions.

2)

Я вважаю, що аналіз вимог — це найкращий метод, бо він дозволяє ще на початку знайти помилки, неточності або прогалини у вимогах. Якщо добре провести аналіз, можна уникнути багатьох проблем у розробці й тестуванні, заощадити час і ресурси. Плюс, завдяки аналізу, команда краще розуміє, що саме потрібно замовнику. Мені подобається, що цей метод системний і допомагає працювати більш впевнено.

3)

Функціональні вимоги:

1. As a user, I want to upload cat photos from my gallery or take pictures directly in the app, so that I can share them with others.

2. As a user, I want to download photos uploaded by other users that I like, so that I can keep them on my device.

3. As a user, I want to like or dislike cat photos, so that I can express my opinion about them.

4. As a user, I want to leave comments under other users' photos, so that I can interact and share my thoughts.

5. As a user, I want to create my own profile with a photo and a short bio, so that others can learn more about me.

6. As a user, I want to search for cat photos by categories (e.g., "sleeping cats," "outdoor cats," "funny cats," etc.), so that I can easily find the type of photos I am interested in.

Нефункціональні вимоги:

1. As a user, I want the app to fully load in no more than 3 seconds with a stable internet connection, so that I can quickly start using it.

2. As a user, I want the app to require a username and password to access my account, so that my data is protected.

3. As a user, I want the app to have a clear and visible "Upload" button, so that I can easily add new photos.

4. As a user, I want the text in the app to use a medium font size, so that it is easy for me to read.

5. As a user, I want the app to have a harmonious and eye-friendly color scheme, so that using it feels comfortable.