**:росток:**Beet Seed — get the basic skills down.

1. Make a comparative table of functional, non-functional, and change-related types of testing.   
   The comparison should contain the following blocks:
   1. what is being checked;
   2. when applicable;
   3. restrictions;
   4. peculiarities.
2. Explain the difference between regression and retesting (5 sentences).

Exercise 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **What is being checked** | **When applicable** | **Restrictions** | **Pecularities** |
| **Functional** | Specific functionalities or features of the software | At integration and system testing | Tests only If the system behaves as expected according to the requirements | Types of testing like: unit /integration /system |
| **Non-functional** | Performance, usability, security, responsiveness and reliability | Usually at the latest stages of testing cycle | No testing of functionalities | Types pf testing: performance, usability, security, reliability. |
| **Change-related** | Tests that changes, do not affect other functionalities | When a new change is being made | Clear understanding of the functionalities and the changes | Regression testing w |

2.Regression testing: tests that recent changes to the system, haven’t affected other functionalities and if new defects appeared because of these changes.

Retesting: Confirms that a specific bug has been fixed after developer’s confirmation.

Beet Sprout— dive deeper into practice.

1. Complete the task of the previous level.

2. Do you think it is possible to perform only functional testing for a product without checking non-functional requirements?

* + - If yes - in what cases?
    - If not, why not?

Support your answer.

3. How do you see the need for smoke testing? Is it always appropriate?

Ex: 2

I believe that non-functional testing is always necessary. However, we can avoid it if we are in the early stages of testing where we test only the functionalities or if the non-functional aspects are not critical for the specific software and the product owner or client has decided to neglect this stage

Ex: 3

Smoke testing helps to test core functionalities of the software at the early stages of development and testing. After, its completion we have the basic functionalities being tested and working as expected according to the requirements.

If the tests fail, then we can’t proceed on more test cases.

I don’t think that this type of testing is always appropriate, as this depends on the product, and the project management and development methodologies.

Mighty Beet: get an all-round topics coverage by completing **level three** of the home assignment:

|  |
| --- |
| 1. Complete the tasks of the previous two levels. 2. You are the founder of a startup planning to launch a mobile application for sharing cat photos on iOS and Android devices.  Users can upload photos of cats but they cannot upload photos of other animals/people/objects. Users can add friends and leave likes and comments.   Write 2 functional and 2 non-functional test cases that would test the application. 3. Write what non-functional requirements you would like to apply to your startup's product.  Describe the tests that would check them (3-5 examples). |

Ex2:

Functional test cases:

1. <https://beetrootqa2024.testrail.io/index.php?/cases/view/269>

2. <https://beetrootqa2024.testrail.io/index.php?/cases/view/270>

Non-Functional test cases:

1. <https://beetrootqa2024.testrail.io/index.php?/cases/view/272>

2. <https://beetrootqa2024.testrail.io/index.php?/cases/view/271>

EX3:

* 1. Performance testing: the app should upload fast the photos
  2. Security testing: Non authorized users can not upload, like or leave comments on photos
  3. Usability: the user can navigate easily and find the necessary functions