**Non-Functional Testing** & Test Cases of **Stylemate App**

**1. Define Non-Functional Testing**

**Non-Functional Testing** checks **how well** a software works — like its speed, security, ease of use, and ability to handle loads — rather than checking if it works correctly.

*It answers questions like:*

* Is it fast?
* Is it user-friendly?
* Is it secure?

**2. Types of Non-Functional Testing (with simple explanations)**

| **Type** | **Explanation** |
| --- | --- |
| **Performance Testing** | Checks how fast the app works under normal use. |
| **Load Testing** | Tests how the app works when many users are using it at the same time. |
| **Stress Testing** | Pushes the app beyond normal limits to see when it crashes. |
| **Scalability Testing** | Checks if the app can handle growing numbers of users or data. |
| **Usability Testing** | Tests how easy and friendly the app is for users. |
| **Security Testing** | Makes sure the app is safe from hackers and data leaks. |
| **Compatibility Testing** | Checks if the app works on different devices, browsers, OS, etc. |
| **Reliability Testing** | Tests if the app can run without crashing for a long time. |

**3. Difference Between Functional and Non-Functional Testing**

| **Functional Testing** | **Non-Functional Testing** |
| --- | --- |
| Checks **what** the system does | Checks **how well** it does it |
| Tests features like login, signup, search | Tests speed, security, usability |
| Based on **requirements** | Based on **quality standards** |
| Example: Does login work? | Example: How fast does login respond? |

**4. Test Cases for a Toothbrush**

| **Test Case ID** | **Test Scenario** | **Expected Result** |
| --- | --- | --- |
| TC001 | Check the size of the toothbrush | Should fit in a normal hand |
| TC002 | Check the bristles | Soft/Medium/Hard bristles as labeled |
| TC003 | Dip in water | Should not break or dissolve |
| TC004 | Use with toothpaste | No color fading or damage |
| TC005 | Apply pressure while brushing | Should not break or bend |
| TC006 | Check grip | Should be non-slippery |
| TC007 | Age group testing | Kids’ brush should be smaller and colorful |
| TC008 | Packaging | Should be sealed and safe |

**5. End-to-End Test Cases for Stylemate App (Positive + Negative)**

