What is Sanity Testing?

Sanity testing is a quick check performed after making changes to software. Its main goal is to ensure that specific features still work correctly after those changes, like bug fixes or new updates.

Why is Sanity Testing Important?

- **Focus on Changes**: It helps to verify that the recent changes didn't break anything important.

- **Saves Time**: Instead of testing everything, sanity testing quickly checks the affected parts, saving time.

- **First Check**: It's a fast way to confirm that the software is stable enough for further testing.

How Does Sanity Testing Work?

1. **Identify Changes**: Look at what has been changed in the software.

2. **Create Test Cases**: Make simple tests that focus on those changes.

3. **Run the Tests**: Execute the tests to see if everything works as expected.

4. **Check Results**: Analyze the outcomes to confirm that the changes didn't introduce new problems.

Benefits of Sanity Testing

- **Efficiency**: It is quick and efficient, allowing for fast feedback on specific functions.

- **Catches Issues Early**: It helps identify problems early in the testing process.

- **Focused Approach**: It targets only the parts of the software that have been changed.

Limitations of Sanity Testing

- **Not Comprehensive**: Sanity testing doesn't cover all aspects of the software, so some issues might be missed.

- **Limited Scope**: It's not a replacement for more thorough tests like regression testing, which checks the entire software.

Sanity testing is a valuable step in the software development process. It helps ensure that recent changes work correctly without causing new problems, making it an essential practice in maintaining software quality.