Optimizing speed and quality of test

**Objective**

To optimize the speed and quality of software testing.

**Questions**

1. What techniques can boost the speed of exploratory testing without compromising its quality?

2. What is the impact of various exploratory testing methods on the detection of critical defects?

3. What is the effect of integration of automation tools on the effectiveness of exploratory testing?

**Methodology**

• Study Design: Exploratory study of the different techniques and tools used in exploratory testing.

• Sample: Software development teams from different companies who use exploratory testing in their development process.

• Data Collection: Interviews, questionnaires, and performance data from testing sessions.

• Tools/Technologies: Analysis of various exploratory testing tools, both manual and automated.

**Metrics**

• Speed Metrics: Time taken to complete testing cycles.

• Quality Metrics: Number of critical defects detected, defect density, and post-release defect counts.

• Efficiency Metrics: Tester satisfaction, ease of use of testing tools, and cost-effectiveness.