

Practical Mobile Application Testing

Overview



DAY 1

Test Strategies and Risk Assessment with Mobile Applications

- Architectural risks in delivering mobile apps
- Deployment and maintenance risks
- Strategies for maintaining quality across diverse mobile and desktop platforms

Functional testing in the mobile space:

- Native applications vs. browser based applications
- Operating system considerations
- Test automation
- Commercial and Open Source functional testing tools

With mobile devices set to become the primary interface for information access globally, many organisations are now compelled to deliver their content and services via a constantly shifting set of mobile platforms, in addition to their regular desktop and web-based application deployments. This poses many challenges for software testing and quality assurance:

- Testing against device emulators is often inadequate, yet the number and variety of physical devices means getting coverage across all target devices is impractical
- Likewise, testing on all target operator networks is impractical, and networks operator frequently impose constraints on testing.
- Performance risks are heightened due to the combination of network and device hardware constraints.
- The push to deliver applications across multiple device platforms simultaneously increases the time to market pressure for testing teams that may already be stretched.

This session will cover the key approaches, techniques and tools required for effective mobile application testing.

DAY 1 cont.

Non-functional testing in the mobile space:

- Performance testing on devices
- Load testing services supporting mobile apps
- Security testing
- Usability testing
- Localisation testing

Duration

- 1 day

Format

- Tutorials
- Exercises
- Full course notes, exercise sheets and related handouts including templates
- Mix of paper-based and PC-based exercises

Learning objectives

- Understanding of techniques and approaches required for effective mobile application testing
- Ability to set up and execute automated mobile application tests
- Understanding of key functional and non-functional risks in the mobile application space

Audience

- Test Managers / Test Leads
- Technical Testers

Prerequisites

- ISTQB Foundation or equivalent
- Familiarity with test automation concepts