Mobile Application Testing

Overview

•This Course serves as an introduction for the basics of software testing generally and for mobile applications specially.
• It will teach you how to discover the problems in the mobile application and how to be a creative tester.
•It will support you with the most common issues in many mobile applications.
•It will support you with the unified testing criteria for different platforms to pass QA portal after uploading application.

Objectives

•Learn how to release high-quality apps that will garner more stars.
•learn many mobile-specific testing strategies
•Create a complete test plan for a mobile app.
•Learn How to test mobile application on the following platforms:
  •-IOS
  •-Symbian
  •-J2ME
  •-Android
  •-Blackberry
  •-Windows Phone
•learn how to discover bugs that commonly appears in all kinds of mobile apps
•Learn most common failures on QA portals for many platforms
•Learn about Creativity Of the tester.

Audience

•This course is appropriate for both novice and experienced software testers who are new to mobile application testing.

Prerequisites

•A background of Software development life cycle.
•A background of basic software testing principles is useful but not required.
•Familiarity with using Smartphone.

Mobile Application Testing – (Continued)

Course Outlines

- Introduction
- Basics of software testing
    - What is meaning of software
    - Software testing life Cycle
    - Different Types of testing
    - Quality control process
    - Defect Life Cycle
    - Reporting Defects and how to track it until resolution

- Overview on Mobile Devices in different platforms and different os
    - Different Types of platforms
    - Different Devices in each platform

- Mobile application test planning
    - How to create mobile application test plan
    - How to estimate testing activities

- Types of mobile application testing
    - Installation testing
    - Usability testing
    - Function testing
    - Performance testing
    - Compatibility testing
    - Interrupt Testing

- Negative mobile application testing
    - How to executes alternative scenarios and the unexpected cases

- Characteristics of Mobile Applications
    - Startup Time
    - Connectivity
    - Convenience
    - Localization
    - Reachability
    - Personalization
    - Security

Course Outlines

•Overview about Mobile Test-ing Automa-tion
  • Why automate testing.
  • Mobile Test-ing Automa-tion Tools.

•Challenges in mobile application testing
  •Dealing with Device fragmentation
  •How to cover all large number of devices in market?

•Testing on Real devices vs. Emulators
  •Advantages and disadvantages of testing application on Emulators.
  •Advantages and disadvantages of testing application on Real devices.
  •Using Combination of emulators and real devices in testing.

•Dealing with application's Data during testing.
•External Factors Testing
  •Network connections
  •Interruptions
  •Changing in device options

•Test idea generation in real-world conditions.
•Testing criteria for many platforms (QT , Java , Blackberry , Android , IOS , windows phone)
•Most common QA failures after uploading applications on portals.