

Lec 1. Preface

1. Who am I ?
2. Introduce our course
3. Reference
4. What is Software Testing (ST) ?
5. Views & Discussion
6. Question & Answer

Lec2. Introduction

1. Necessary of Software Testing
2. What is Software Testing?
3. Relationship between Testing & Developing
4. Relationship between Testing & Quality Assurance
5. Key of TDD (Testing Driven Developing)
6. Question & Answer

Lec3. Preliminary -- Terms & Concepts

1. Failure & Bug(Defect, flaw) & error & fault & Vulnerability
2. Static & Dynamic Testing
3. Black- & White- Box Testing
4. Validation & Verification
5. Question & Answer

Lec4. Methodology

1. Intuition-based ST
2. Input Domain-based ST
3. Combination test
4. Logical Coverage-Based ST
5. Pattern-Based ST
6. Model-Based ST
7. Formal Method-Based ST
8. Question & Answer

Lec5. Unit Testing Experiment

1. MoocTest Platform
2. Unit Testing Introduction
3. JUnit
4. Experiment 1: Unit Test on MoocTest
5. Question & Answer

Lec6. Unit Testing Theory

1. Why UnitTesting
2. Tasks of UnitTesting?
3. Dynamic Testing
4. Code Review
5. Case studies
6. Auto-UnitTesting tools
7. Integrete Testing (big Unit Testing)
8. Question & Answer

Lec7. System Testing

1. Feature Testing
2. Performance Testing
3. Other Non-Feature Testing
4. Regress Testing
5. Question & Answer

Lec8. Exp : Feature Testing for Web Application (Remote)

1. Usage of Selenium IDE
2. Web application
3. Case Studies on MoocTest
4. Experiment 2: Feature Testing on Web Application
5. Question & Answer

Lec9. Acceptance Testing

1. UI Testing

2. Usability Testing

3. Document Testing

4. Globalization & Localization Testing

5. Question & Answer

NOTE: Ch7 & Ch 8

Lec10. Test Case Specification & Bug Report

1. Test Case Spec
2. Test Oracle
3. Bug Report
4. Bug Track
5. Question & Answer

NOTE: Ch11 & Ch 13

Lec11. Conclusions

1. what does we talk about?
2. The Research Questions?
3. Challenges in Practice?
4. What did you get?
5. Any more? Bye!