

Software Testing - 22KTPM2

MSc. TRAN THI BICH HANH

Contact Information

Instructors

- Trần Thị Bích Hạnh

ttbhanh@fit.hcmus.edu.vn

- Hồ Tuấn Thanh

htthanh@fit.hcmus.edu.vn

- Trương Phước Lộc

tploc@fit.hcmus.edu.vn

Email Format

Email Subject: [MaMon-MaLop] – [MSSV]/[Ma_Nhom] – Nội dung tiêu đề
dung tiêu đề

Example: [KCPM-22KTPM2] – 0123456 – Hoi ve Project Case Study



Course Information

Moodle

Resources, Forum, Quiz, Assignments

<https://courses.ctda.hcmus.edu.vn/>

Slides & References

<https://tinyurl.com/kcpm-mbook>

Google Drive

<https://drive.google.com/drive/folders/11Kb6azMLfkxOEn4Ug2baTZzOy8sYHJx4?usp=sharing>



Warm-up Activity

1

Think about a software bug (2 minutes)

- What was the bug?
- How did it effect you?
- How did you wish it was fixed?

2

Share in pairs (3 minutes)

Discuss your experience with a partner

3

Class sharing (3 minutes)

A few pairs share with the class



Course Description



For professionals and students

To understand/specialize in software testing & quality engineering.



Content

Black box, white box techniques, tools, process, management.



Format

Blend of theory and practice.

Learning Objectives



Apply testing techniques

Apply various black-box & white-box testing techniques.



Analyze testing tools

Analyze & select appropriate testing tools.



Understand testing in SDLC

Understand the role of testing in SDLC.



Integrate AI

Integrate AI into testing strategies.



Grading System

Project Seminar
15% of final grade



Project Case Study
45% of final grade

Final Test
Closed book exam
40% of final grade

Zero Grade



> 3 theory sessions

Cheating



Class Organization



Team

- 3-4 members work together on both
 - Project Seminar
 - Project Case Study

Project Seminar



Introduction

What, Why, When, Where, Who, How?



Main Functions

Key features and capabilities



Setup Instructions

How to install and configure



User Manual/Demo

Blogs or Video demonstrations



Pros & Cons










Advantages and limitations of CASE Tools



Final Presentation

In-class demonstration

Seminar Topics

- | | | |
|---|---|---|
|  Database Testing |  GUI & Usability Testing |  Automation Testing for Web |
|  Automation Testing for Mobile Apps |  Automation Testing for Desktop Apps |  Performance Testing |
|  DevOps & Continuous Testing |  Mock/API Testing |  Security Testing |

Project Case Study



Test plan

Comprehensive testing strategy



Test cases

Detailed scenarios to verify functionality



Test automation

Scripts to execute tests efficiently



Bug reports

Documentation of identified issues



Test reports

Summary of testing activities and results

Project Case Study

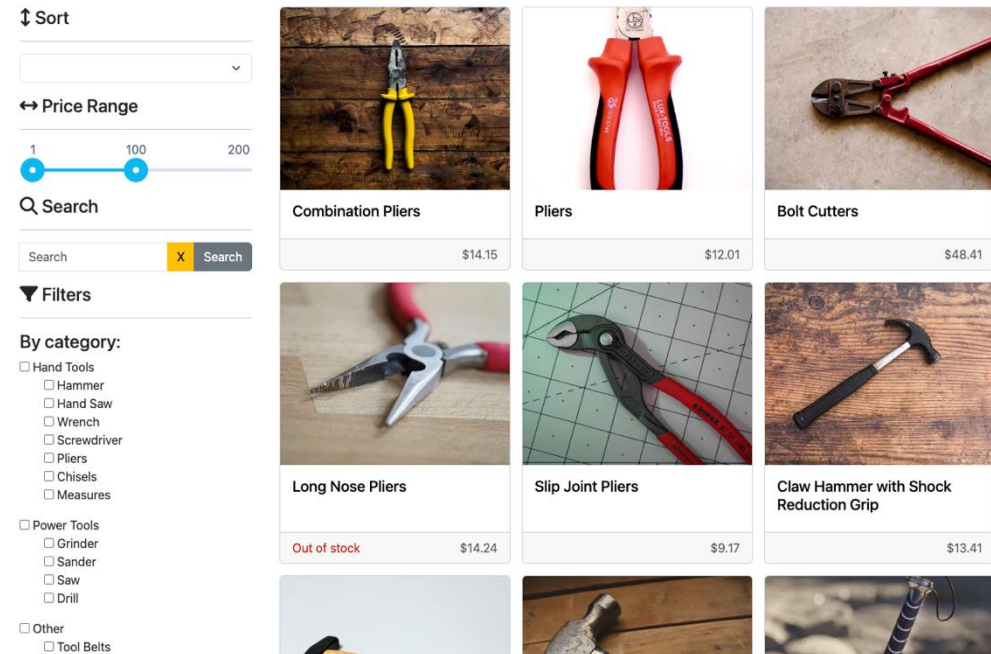
- **System Under Test (SUT)**

<https://practicesoftwaretesting.com>

- **Github**

<https://github.com/testsmith-io/practice-software-testing>

- **PRJ#1: Setting up SUT**



How to learn

Well-Prepared before classes

- Reading & Quizzes
- Homeworks

Bring to class

- Laptop, adapter, internet
- Paper & Pens (note taking, tests)

In-Class activities

- Be Active



