Assignment
Advance Software Quality Assurance
3rd Year

University of Colombo School Computing

Section 1 - Online Quizzes on Concepts

Please answer all quizzes if you couldn't answer them during the lectures.

Quiz 1:   https://forms.gle/gV3V8wjCwS6UpgjYA
Quiz 2:   https://forms.gle/LkAmcPRNM3vEq2Da9
Quiz 3:   https://forms.gle/QRrdt892f2ssgvkWA

Section 2 - Industry Use Case - Test Strategy and Test Cases

Business Requirement: Validating the HR Management application
Application: https://demo.actitime.com/
Requirement: The HR Management application allows HR to log in with a valid username and valid password. The HR once logged into the system successfully can be able to look into Employee profiles and review leaves and attendance reports and Approval/rejection of the timesheets.

1. Identify 5 software risks and mitigation plans for testing for the above requirement.

#	Product Risks	Criticality	Mitigation
1			
2			
3			
4			
5			

2. Go through the application and requirements given above, identify a few functionalities, and derive 10 test scenarios with the use of the following test design concepts.

a. Boundary Value Analysis (BVA)
b. Equivalence Class Partitioning
c. Decision Table based testing.
d. State Transition e. Error Guessing

TC ID	Test Objective	Pre Conditions	Steps	Expected Results	Actual Results	Testing Technique Used
1						
2						
3						

3. Explore the Pairwise test design concept and brief it
a. Identify a test scope from the above application where pairwise test design concept can be applied
b. Use the pairwise concept and derive the optimum test design for it. (You may use Pairwise Online Tool (teremokgames.com) or any available tool for it)