United International University
Department of CSE
CSE 322: Software Engineering Laboratory
Lab Sheet

Experiment No. 6

Black-box Testing

---

1. **Introduction**

Black-box testing is a method of software testing that examines the functionality of an application without peering into its internal structures or workings. This method of test can be applied virtually to every level of software testing: unit, integration, system and acceptance.

2. **Lab Equipment/Required Software**
   a. Python (https://www.python.org/downloads/)
   b. Python Selenium
   c. Any Web Browser (Google Chrome/Mozilla Firefox)

3. **Objective**
   a. Learn about different software testing strategies.
   b. Learn how to use an automation software.
   c. Learn how to do web parsing.
   d. Learn how to do load testing.

4. **Workflow**
   a. Download and install necessary software from Section 2 if required.
   b. Initialize Selenium with Chrome Web-driver.
   c. Open google.com and select the elements using the driver.
   d. Do a Google search using the driver.
   e. Fetch information from the site into the script.
   f. Open localhost and test Ajax query using the same process.

5. **Hand's on Practice**
   a. Extract weather information from bmd.gov.bd.
   b. Login to ucam.uiu.ac.bd using Selenium.

6. **Homework**

Implement Black-box testing in your own project. Every team member should create a unit in their own feature.