

BITS F364 Human Computer Interaction

Assignment 3: Automated UX Testing using Selenium and Appium

1. Write *Selenium* script(s) to automate the following tasks on www.amazon.in.
 - a) Search for 'wireless headphones'
 - b) Sort by price. Retrieve the headphone name and price for the lowest priced item matching the search criteria
 - c) Sort by highest rated item. Retrieve the headphone name and price for the ~~lowest priced~~ top-ranked item matching the search criteria
 - d) Add the item in part (c) to the cart
 - e) Record the response time for each of the activities in parts (a) to (d). Response time is the time it takes to initiate an action (e.g. press a button) to until the page loads.
 - f) Record the load time for the home page of www.amazon.in
2. Perform the same activities as in Part 1, but using *Appium* and a mobile app Amazon e-commerce. You may choose either Android or iOS version of the app. You may do the experiments on a phone or on an emulator
3. Compare the performance of the Amazon website vs the Mobile app. Which would you prefer and why?

What to submit:

1. A PDF report tabulating your analysis, observations and conclusions
 - a) In the report, add links to screen recordings of the tests on the website and mobile app
2. Link to a repository with your Selenium and Appium scripts. The code should be well documented and readable.

Deadline: April 15th, 2025. 23:59 hours. Submission will be on LMS

Group size: 4 to 5 students per group

Honesty Requirement:

Please do the assignment honestly. The purpose is for you to learn. Any acts of dishonesty will attract extreme retribution.