Instructions

Put the code on Github as project. There are two parts to this test. For the first part, you are recommended to use Maven, Java, JUnit, WebDriver and Cucumber-JVM for this assignment.

For the second part which is the stress test, you should use Apache JMeter and you can just provide a working JMX (JMeter) file.

Part 1: BDD based assignment

Imagine that eBay is looking for a test engineer to test their search functionality and ensuring that the filtering and sorting functionality actually works.

The requirement is as follows:

As a new customer (Not logged in) on eBay, I want to be able to shop for an item I want, to look for the cheapest item available and use the filtering options available.

Your task is to create a business friendly / readable *automated test* that would:
- Open eBay's main page (www.ebay.co.uk), login **not required**
- Search for an Item (e.g. iPhone)
- Allow sorting by **Best Match** / **Lowest Price + P&P** / **Highest Price** / **Newly listed** and the like
- Filter by **All listings** / **Auction** / **Buy it now**
- Verify that any given item (e.g. first result) has **Free Postage, Number of bids** (if the **Auction** filter is applied, or **Buy it now** in the case of **Buy it now**) and the given price

Optional
- Implement the search category filter to allow better searching of items (e.g. searching for Camera with the **Books, Comics & Magazines** category will return books on cameras, and **Cameras & Photography** category will return actual cameras)
- Ability to move to the page X (Where X = 1,2,3,4..) on the results page

You should be able to demonstrate your test with different scenarios.

Part 2: Basic Stress Testing

We would also like to measure the *performance* for searching an item on eBay via **JMeter**. Write a **JMeter test (JMX script will do)** that allows 10 concurrent users to perform a basic search (With a random item per user, e.g. User A searches for iPhone, User B searches for Samsung Galaxy, and so on) on eBay to measure the time it takes. Sorting and item verification are not required for the JMeter test.