Shipt - QA - SDET - Interview Exercise

1. A feature that I would test would be updating address for each account.

I will first set up a demo database to use it as dummy data. Have to make sure this demo version is running in the same environment setup.

Execute sql scripts to test CRUD action, this must cover both viewing and storing procedures. Also assert all the parameters getting passed in.

Verify correct data changes, null value check and verify primary/foreign keys

2. Locate one bug or bad workflow within the app.
a. One bad workflow that I observed was sometimes can clicking on a product can sometimes bring the user back to the top of the page.

c. It may seem like a small bug but this can affect the user experience when it comes to shopping. If I am looking through a list of 10 item on bottom of page, it could be quite annoying if this were to happen to me. I would have to scroll down after looking at each product detail.

d. My steps of reporting this issue would be documenting the behavior(in this case probably with a small video). Try to observe more cases to see when this behavior happen.
e. I would give this bug a 2 out of 5 in turns of priority. I would not rate it as high as it is not a program breaking bug, but I do think changing this could improve the user experience by a little.

3. Possible defect I could think of are sql update statements are not correctly written/syntaxed
Form that takes in the phone number parameter could have a block that does not update database entry when an entry with that id already existed.
To debug, I will first inspect the database to see if the data in there are properly updated. If not, I will then inspect the form tag with debugger to see how parameters are passed in.

SQL

1. Gettar
2. Banana for 3.32 and Golden Banana for 3.59
3. Banana, Golden Banana and Bouquet Flowers
4. Banana at store 1
5. UPDATE interview.order_lines
   SET line_total =
   (SELECT COUNT(product_id)
   from interview.order_lines)

API Automation

For this section, I have loginTest.py which contains the method for the request and test.py contains the 3 test cases that asserts the response message to be invalid login.

Automation Assessment

1. I ended up choosing pytest even though i haven't had much experience with it. I have always enjoyed new challenge and I thought it was very interesting to learn a new tool that can later on further benefit my career

2. When I look into a failed test, I first will review the possible test results and compare that to actual results. Then I will use controlling breakpoint flag, I will be able to inspect each parameters which then further help my understand why my test case didn’t behave the way i expect it to.

3. I believe the most common cause for instability in UI automation are poor test design and separation of development and testing.

4. I believe I can make test cases that are more consistent and easy to debug by using several debugging technique or strategies. Isolating the problem/component can often be a very strong technique to help eliminate irrelevant part of the problem; developers will then be able to quickly locate the root. Be methodical and careful when it comes to designing test so all edge cases will be tested. Always have an idea of what the expected result will be like just cause if a test case fail then you can quickly compare and debug later on.