QA Engineer Technical Challenge

This challenge is composed by 2 different tasks:

Task 1: Black Box Testing

- You'll need to do some exploratory tests using the given screenshots from one of our e-commerce applications. You should report all the issues found.

Task 2: Automation Testing

- The goal here is to automate a specific workflow for a given application.

You'll find detailed information concerning what has been described above as you read this guide. Feel free to contact the Recruiter who sent you the challenge to clarify any question you might have.

Task 1: Black Box Testing

The application under test is called **Test Drive Booking** and allows a customer to follow a complete online workflow, in order to book a test drive, for a specific vehicle. This workflow consists in several steps where the customer fills in different forms until the end of the process.

At this stage you should have *"Test Drive Booking - Screenshots"* PDF file as a support document that you will find attached to the e-mail containing the workflow described below.
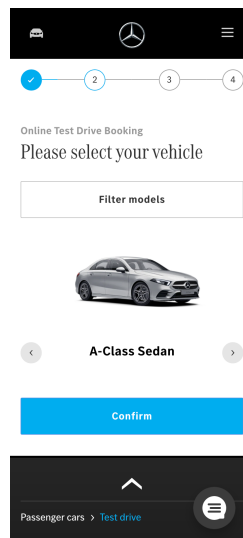

Figure 1-Test Drive Booking application

Workflow:
1. Select a vehicle model;
2. Select a dealer;
3. Choose a date and time and fill in personal information;
4. Submit the booking;
5. The customer receives a confirmation e-mail (containing a booking ID).

The goal is to book a test drive online with a specific Mercedes-Benz dealer.

Technical details:
- IOS 14.3
- Safari v14.0.2
- market: South Africa test drive booking

Snapshots:
- Date: 1/February/2021
- Environment: production

Version:
- Latest released: 1.30.0
- Unreleased: 1.31.0

Application out of scope:
- Header & Footer

The goal of this first challenge task is to:

- Find bugs/improvements on the given application;
- Report them properly;
- Add all comments and action items you think are needed to best reproduce the issues found.

All the issues found should be reported and delivered using the "**Bug Report Template**" provided in attachment.
In case of need, feel free to add more fields to the template.

Deliverables

In the end of this task, you'll need to:

- Have all the issues reported in the previously mentioned "Bug Report Template**"**. If you send us a link, please double check if we can access it.

Evaluation

Your performance will be measured taking into consideration some key aspects as:

- Reported issues precision and clearness;
- Appropriate information provided;
- Specific situation's reproducibility.

Beware that despite being possible to report *improvements*, these will not be the main concern while measuring the performance, instead, the focus will be on the *issues* reported.

Task 2: Automation Testing

The system under test is a Mercedes-Benz website where you can configure vehicles which can be found accessing this URL: https://www.mercedes-benz.co.uk .

No authentication is required once you access the mentioned URL

You are requested to automate the following test case *"Validate A Class models price are between £15,000 and £60,000"* as described below:

- Open Mercedes-benz United Kingdom market
- Under "Our Models" - Select "Model: Hatchbacks";
- Mouse over the "A Class" model available and proceed to "Build your car"
- Filter by Fuel type "Diesel"
- Take and save a screenshot of the results
- Save the value "£" of the highest and lowest price results in a text file

During your test you should consider all the important and relevant validations to be taken into consideration.

We strongly advise you to:
1. Write a code as modular as possible. If possible, create a small framework which can be easily understood;
2. Preferably use Java, JavaScript or Python programming languages;
3. Do not hard code any data items inside the script;
4. The test should, at least, be able to run in two different desktop browsers;
5. Last but not least, the use of any Record & Playback tool/approach will not be considered.

Deliverables

In the end of this task, you'll need to deliver:
- The automated tests project in a GIT repository accessible to us (or alternatively in a ZIP file);
- The necessary documentation/instructions (including dependencies) in order to run the project/script.

Evaluation

Your performance will be measured taking into consideration some key aspects as:
- Project is successfully executed;
- Project's structure and organization;
- Documentation and comments provided.