# QA Engineer Technical Challenge

**Scope**

The challenge has 2 different tasks:

**Task 1**: Black Box Testing

- You'll need to do some exploratory tests using 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.

Feel free to contact the Recruiter that 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.

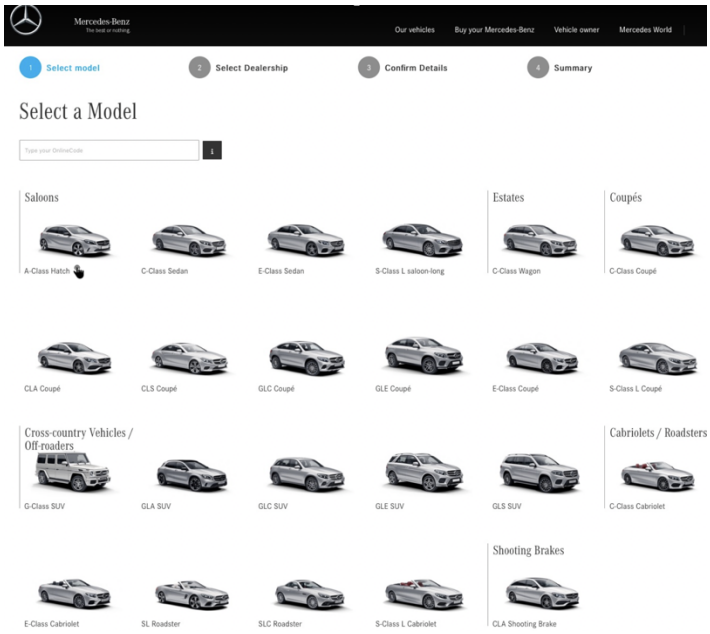


*Figure 1-Test Drive Booking application*

**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:**

- macOS 10.14.2 Mojave
- googleChrome v72.0.3626.121
- market: australia test drive booking

**Snapshots:**

- Date: 07/March/2019
- 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 by you and delivered the report in the format more convenient for you.

**Deliverables**

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

- Have all the reported issues in a place/file accessible to us. 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 main concern while measuring the performance being the focus the *issues* reported instead.

# Task 2: Automation Testing

The system under test is a Mercedes-Benz online shop where you can buy all sorts of merchandise and which can be found accessing this URL: https://shop.mercedes-benz.com/en-gb/collection/.

No authentication is required once you access the mentioned URL

You are requested to automate the following workflow as described below:

- Add at least one item to your shopping basket;
- Proceed on the shopping basket workflow to address and delivery (you must place your order as a guest in order to proceed and use the following Postal Code: **SP2 0FL**);
- Continue your order and select any payment method;
- After reaching step 4 (Verification and Order Placement) you must **stop** the workflow.

During your test you should consider all the important and relevant validations to be taken into consideration.
You can create this task using any open source tool or framework. Creativity and innovation are always welcome and will be appreciated.

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. Use Maven Dependency framework or similar
3. Use Extent report for reporting or similar
4. Use Java or Python programming language
5. Do not hard code any data items inside the script
6. The test should successfully run at least on two desktop browsers

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

- The automated tests project in ZIP format (GIT repository is preferable);
- The necessary documentation/instructions (including possible 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.