Test – Fullstack web developer

Part 1: php, css, js

Goal: create a buy device site. In this site the users select how many devices they want to buy from and being redirected the a 3rd party site for payment and shipping details. Much like https://buy-obd.engieapp.com

Main Features:

a. Has two products – for iOS devices and for Android. See Images attached.
b. Prices of devices should be 20$ for android and 25$ to iOS device, but should not be hard-coded.
c. Second device for the same product should be 75% of the first device.
d. Minimal but "something you can publish" styling
e. Fully interactive including total price and a cart representation that is updated (without refreshing page)

Part 2: java + mysql/mongoDB

Goal: create an end point to the buy device site

Controllers (web services):

a. /buy-obd/get-prices GET
   return:
   json object containing each device with it's price. For example:
   {
        ios: 25,
        android: 20
   }

b. /createEndPoint POST
   params:
   json object containing each device with its quantity. Example:
   {
        ios: 0,
        android: 2
   }

   return :

   json object containing checkout url. For example:

   {
        checkoutUrl: "{youUrl}/checkout/abh13234ywqc/"
   }
   The hashed string in the end of the url is a session ID.

c. /checkout/{sessionId}/ GET

Session id is a path parameter as mentioned in section b.

This is supposed to represent a 3rd party payment site (like what Shopify is for Engie). You don't have to implement the site's UI - just set a form that contain the session's data (quantities, total price) and "buy now" button which can be inactive.

<u>Notes</u>:

- Use a DB (mongo or mysql) to store data. Checkout URL should re-visitable.
- Use an MVC framework for the server side in Java (recommended: Spring Boot, what Engie uses).
- Using advanced design patterns – advantage.
- **Important**: use git. Create a github project and commit each feature / change of code separately.
- Improvements / upgrades to the project are welcome

Images:

Android: https://buy-obd.engieapp.com/img/buy-android.png

iOS: https://buy-obd.engieapp.com/img/buy-iosandroid.png

Good Luck!