# QA Internship Assessment

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# Questions:

✔ **Question 1:**

What is a bug or defect?

✔ **Question 2:**

What is retesting?

✔ **Question 3:**

Which pair of definitions is correct? (check the answer)

a. Regression testing is checking that the reported defect has been fixed;
Retesting is testing that there are no additional problems in previously tested software.

b. Regression testing is checking there are no additional problems in previously tested software;
Retesting enables developers to isolate the problem.

c. Regression testing involves running all tests that have been run before;
Retesting runs new tests.

d. Regression testing is checking that there are no additional problems in previously tested software;
Retesting is demonstrating that the reported defect has been fixed.

✔ **Question 4:**

What is integration testing?

✔ **Question 5:**

When should you stop testing?

✔ **Question 6:**

What is the difference between performance testing and functional testing?

✔ **Question 7:**

What is a Protocol? Name some Protocols.

### ✔ Question 8:

What is a HTTP status code? Name some status codes.

### ✔ Question 9?

The two main development methodologies are agile and waterfall.
They are commonly applied to software development, and thus, project management as well.

What are the main differences between the two methodologies?

# Problems:

### ✔ Problem 1:

We have the following 3 incidents, please rate them in terms of Urgency and Impact and then decide on the Severity. Write all 3 down for each case and explain your decision in a few words:

1. The Shopping cart for Company_1 is not working, and they are losing all sales.
2. The shopping cart for Company_2 is not working in Romania
3. The platform is down, and we are not receiving any orders

### ✔ Problem 2:

Resolve the following exercise using pseudocode:

Replace every third element in the array with the value 10.
Assume that an array filled with values is already provided.

### ✔ Problem 4:

Sort an array using the Bubble sort technique, use the pseudocode for this algorithm.

### ✔ Problem 5:

Write pseudocode that performs the following:

Ask a user to enter a number.
If the number is between 0 and 10, write the word red.
If the number is between 10 and 20, write the word blue.
If the number is between 20 and 30, write the word green.
If it is any other number, write that it is not a correct color option.

### ✔ Problem 6:

Write pseudocode that reads three numbers and writes them all in sorted order.

# Project I:

Imagine you are part of a Testing team and you have to test following feature:

## FEATURE: Implement Checkout page in Cart and Proceed the Payment

*Acceptance Criteria:*

- First name*, Last name*
  - can contains only letters and the special character -
  - can be between 20 and 40 characters
- Phone number*
  - can be 10-12 digits in length
  - only numbers are accepted
- Company
  - can contains only digits and letters
- Street address*
  - can contains letters, digits
  - can contain the following special character: _|\-“/’*.,`;&:
  - can be between 3 and 50 characters
- City*, Country*, Province*, Cardholder’s Name
  - can contains only letters
  - can be between 3 and 30 characters
- Postal code
  - can contains only digits and letters
  - can be between 3 and 30 characters
- Type of Card*
  - it’s a drop-down list
- Card Number
  - can contains only digits
- Expiration Date*
  - it’s a drop-down list
- CVC*
  - can contains only digits
  - can contain only 3 or 4 characters

*To do:*

- Check Figure 1 from “Mockups”
- Create the testing checklist (you can use excel)
- Found 6 bugs in the Checkout page and write them (providing as many details as possible)
- Use min 2 security testing strategies for Payment Method box

# Project II:

**EPIC:** Market Place

As a seller I want to be able to access a marketplace (sign up) and be able add my own products and sell them in the way I want, also I want to be able to customize my email and shopping carts.

## FEATURE: Implement the sign-up page that requests email confirmation

*Acceptance Criteria:*

- The user must have a sign-up form example below:
  - First Name*
  - Name*
  - Business Email*
  - Website*
  - Country*
  - Password*

- The Password must have 1cap letter, must be longer than 6 and minimum 1 digit in it
- There should be a “Get Started” button
- The user must check the Terms & Conditions checkbox before “Register” button else an error should appear
- The “I’m not a robot” button should work
- The user must be able to choose the wanted type of “sell”
- After the sign up is done the user must be prompted with a “Confirmation Page” that requires a verification code sent via Email
- In the email the user should have a specific text and the verification code
- The verification code must expire after 30 seconds
- After the verification code validation, the user must be taken to the main page of the marketplace

## FEATURE: Implement the log in page that directs users into the main page of the marketplace

*Acceptance Criteria:*

- The user must be able to access the marketplace with a correct username & password
- The user must be blocked for 30 min if the username or passwords are incorrect (after 3 attempts)
- The user must have an error if an attempt is failed (Username wrong / Password wrong)
- The user must be in the main page of the marketplace if the login worked and promoted with a “Welcome pop-up”

*To do:*

- Check Figures from 2-4
- Create the testing checklist for provided **FEATURES**
  - Use minimum 3 testing techniques in the checklist
  - Use Excel/PowerPoint/Jira/any tool you prefer to create the checklist
  - The checklist must have all the details provided in order for a Product person (non-technical) to reproduce them
  - Do not use exhaustive testing or scenarios that are repeating
- Imagine and chose 6 bugs that might happen and log them (provide all details)
  - The bugs mush have a precise Summary
  - The steps to reproduce must be accurate in order for the developer to reproduce easily
  - Bugs must be from both Features
- Use min 2 security testing strategies
- Provide an automation strategy

# Mockups:

## Checkout page Cart:

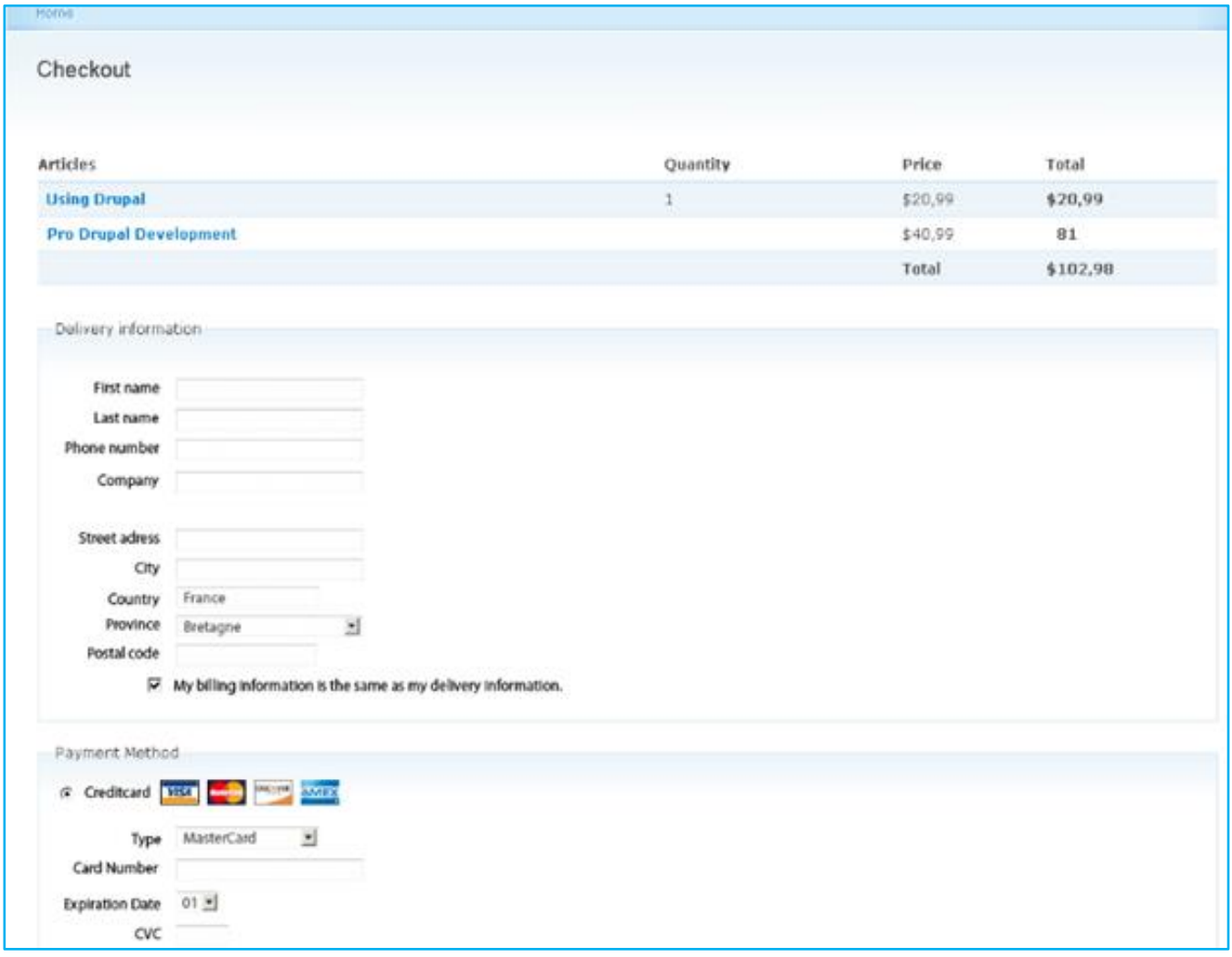


*Figure 1*

## Sign-up Mockup:

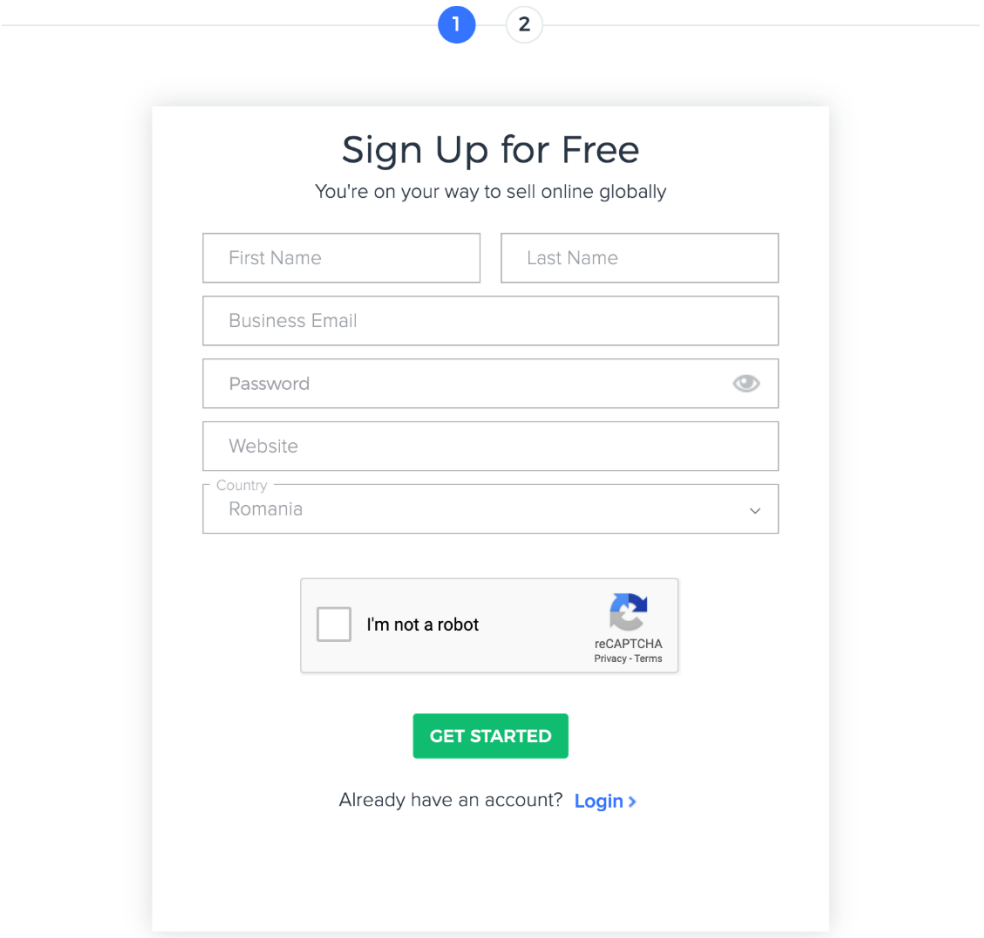


*Figure 2*

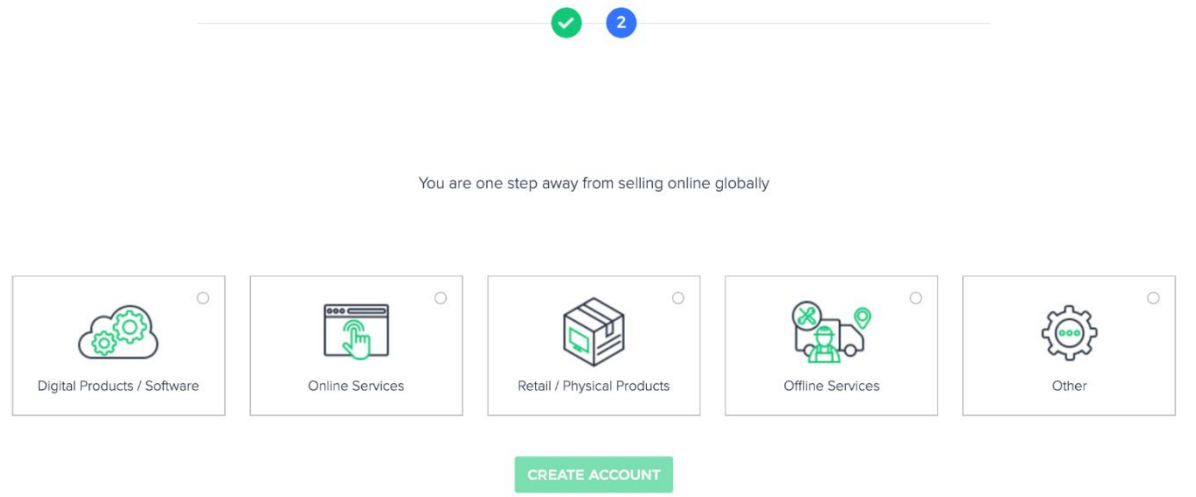


*Figure 3*

## Log In Mockup:

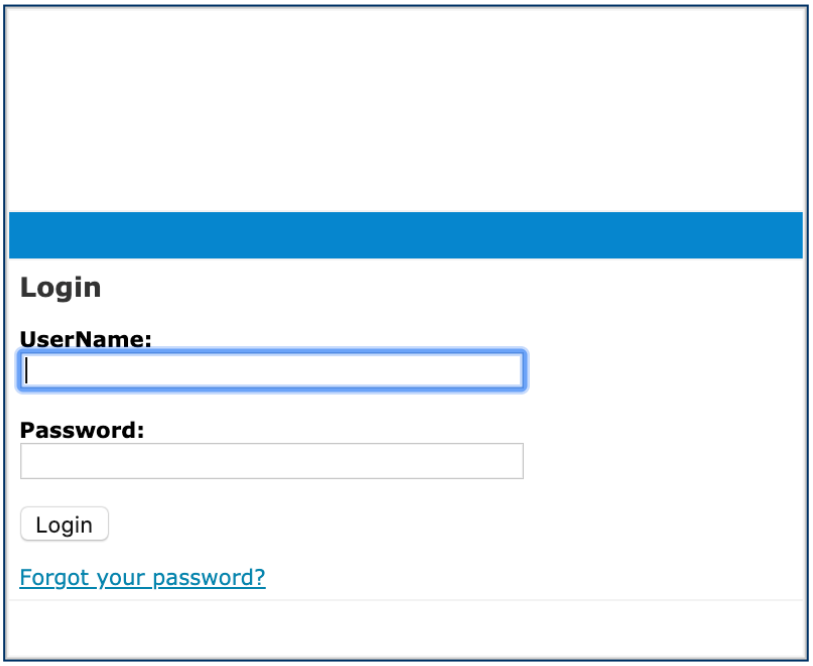


*Figure 4*