Overview

This is a technical challenge for prospective Software QA Specialist to work for Videoslots.

This challenge covers:

- Code challenge using Java, C# or JavaScript
- Test Coverage
- Bug Reporting
- SQL challenge
- Test Automation challenge
  - o Development of a small test automation framework using Java, C# or JavaScript
  - o Behavior Driven Development (optional)
  - o UI Testing

Task1

Given the below distinct requirements:

1. Create a function that takes an array of numbers as a parameter and returns the number of values that are a multiplier of either 4 or 6 (or, of course, both).
2. Write a function that tests if a string is a palindrome.

Task 2

Provide written test scenarios to verify correct implementation in Task 1.

Task 3

Report 2 Critical bugs you may find on Videoslots and indicate why you feel they are critical. If the site is blocked due to geographical reasons, please provide 2 critical bugs for another site.

Task 4

Imagine you are dealing with a DB which has 2 tables, *users* table which holds the registered clients in a system and *users_creds* table which contains the users' credentials for those who are still active in the system. Both tables are linked with the ids.

users

id	name	surname	email	country
1	John	Doe	j.d@vs.com	UK
2	Mary	Fraser	m.f@vs.com	DE
3	Jane	Smith	j.s@vs.com	MT
12	John	Jones	j.j@vs.com	MT
13	Peter	Williams	p.w@vs.com	UK
14	Tom	Taylor	t.t@vs.com	FR
21	Kate	Davies	k.d@vs.com	SE
27	James	Brown	j.b@vs.com	PT
35	Joe	Thames	j.t@vs.com	SE
37	Michael	Wilson	m.w@vs.com	DE

users_creds

id	username	password	failed_logins	required_reset_password
1	user1	password1	0	0
12	user12	password2	1	0
13	user13	password4	0	1
35	user30	password9	1	1

1. Create an SQL Query which retrieves the id, name and surname of all registered users under country Malta.
2. Create an SQL Query which retrieves the id, name, surname of all registered users that are NOT registered under country Portugal and France.

3. Create an SQL Query which retrieves the id, name and surname of all registered users which are still active.
4. Create an SQL Query which retrieves the name, surname and emails of all registered users which requires a reset password.

Task 5

Imagine you are a Software QA Specialist working with the renowned online notes taking Evernote. You are assigned to build an automation framework from scratch, so to build up all the required E2E automation tests.

You are expected to create a structured test automation framework aiming to test UI testing. The framework should include: Page Objects, Config files and any other layer you deem appropriate (Wrapper Classes, Helper Classes, etc). Optionally you may also include Feature Files and Step definition classes.

The implementation should be planned to be scalable and adaptive for future additional tests.

Tests to be covered:

1. Unsuccessful login using email
2. Successful login using email
3. Login and write a note followed by a logout
4. Login again and make sure you open the note create in step 3

Delivery instructions

Once you are happy with the result, you only need to share with us an accessible online repository including:

1. Executable implementation
2. Readme file which explains in detail your implementation and how to execute
3. Anything else that will help you to stand out from the other candidates and so don't limit yourself!
4. You are required to set the repo to be private and invite us on the below addresses:
- GitHub username to invite to private repo: qa-leads-videoslots (github.com) *
- In case of any other code hosting platform, you can invite us through the following e-mail address: qa-leads@videoslots.com *

* Always make sure that it is easy for us to link your private repository with your name