Webinar Registration Technical Test

Technical Test

In the zip file is a Visual Studio project called *WebinarRegistration*. It is a .NET MVC application with a series of issues we would like you to fix within two hours.

# SQL injection bug

A client had the tool penetration tested and found a serious SQL injection bug. Running the Export to Excel link with ; DROP TABLE WebinarRegistrant; -- added to the URL will break the database.

## Please investigate this bug and document a series solutions for removing the vulnerability.

## Implement whichever solution you can in the time allocated, but we will discuss your other solutions.

# Database performance

A client has reported that the application renders slowly when there is lots of data. We require this page to load in less than ¼ second. The previous developer has added logging into the database service that will output database calls when in debug mode.

## Please can you investigate the cause and solve.

# Broken functionality

To ensure customer protection we mask every registrant’s first name. Our client has noticed that the masking fails with the names “Šliževičiūtė” and “Jean Claude”.

## We have written some broken tests; please could you fix this functionality so the tests pass.

# New feature request

The application currently loads the current year’s webinar registrations, but a client would like the ability to change the view year without manually changing the address in their browser. A previous developer started implementing a dropdown into the Webinars.cshtml view but never completed this work. The previous developer indicated that this could be done using javascript, but the solution is up to you.

## Please complete this work so that selecting a year from the dropdown will automatically change the view.