



**Sitecore Recruitment**

**Technical Exercise**

**(SEO Analyzer)**

Introduction

We want to get a better understanding of (a) the code you produce but also (b) how you go about architecting an extensible solution and finally (c) how you might explain a concept or pattern to others.

Rather than coding something in front of us, which is unrealistic in an interview situation, what we’d like you to do is produce a small solution that demonstrates a simplified SEO Analyzer.

Task Description

Implement simplified SEO Analyzer: web application that performs a simple SEO Analysis of the text. User submits a text in English or URL, page filters out stop-words (e.g.: ‘or’, ‘and’, ‘a’, ‘the’ etc.), calculates number of occurrences on the page of each word, number of occurrences on the page of each word listed in meta tags, number of external links in the text.

***Estimated Implementation time: ~2 - 4 hours***

***Important note:******We will assess your skills in both scripting and styling – find a balance between both areas to show off your capabilities, so that we can get a better impression of your technical skill level.***

Delivery

* Source code that has been tested and is ready to be compiled and executed on any environment
* Any manual step in setting up should be scripted in automated manner (with tools like NodeJS, PowerShell, Visual Studio project file)
* Please deliver this in a publicly available repository like GitHub, BitBucket etc. with documentation about your concerns, decisions, guiding, testing etc.

Environment Requirements

* ASP.NET Application
* .NET Framework 2.0 or higher

Implementation Requirements

* Analysis options listed in the task description can be turn on or off with checkboxes
* Output results must be in a table with ability to sort
* Application should handle properly unexpected behaviors (wrong URL, not responding site, etc.)

NOTE:

The technical exercise is only a starting point for the conversation we’ll have during the interview. You should not try to use all the technologies / practices / patterns you outlined in your CV; you should not try to make this test task more complex than it’s necessary. We’d like to see a piece of code as you would do your daily working task.