

# InfoTrack – Development Project

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## Task:

The CEO from InfoTrack is very interested in SEO and how this can improve Sales. Every morning he searches the keyword “land registry searches” in Google and counts down to see where and how many times their company, [www.infotrack.co.uk](http://www.infotrack.co.uk) sits on the list. Seeing the CEO do this every day, a smart software developer at InfoTrack decides to write a small application for him that will automatically perform this operation and return the result to the screen. They design and code some software that receives a string of keywords, and a string URL. This is then processed to return a string of numbers for where the resulting URL is found in Google. For example “1, 10, 33” or “0”. The CEO is only interested if their URL appears in the first 100 results.

## Requirements:

- Demonstrate your skills! - showcase your .NET web application knowledge
- Do this either as a .NET Core Webapi & SPA pair, or classic .NET MVC application
- Make use of this URL: <https://www.google.co.uk/search?num=100&q=land+registry+search>
- Scrape the website. Don't use 3rd party libraries or google API, we want to see how you structure your logic
- In the UI, you need to allow user to enter the search phrase and URL
- If you need to use any Database, please make sure to use SQL Express

## Tips:

- Demonstrate OO Programming & clean separation of concern
  - If you have used JS frameworks before and want go an extra mile in demonstrating your skills(eg,Vue.js,Angular,React,Typescript), feel free to use it in this project.
  - If you have some extra time, feel free to add extra features, eg:
    - Trends / history of where InfoTrack ranked on a daily / weekly basis
    - Scrape other search engine
- If you don't, it's completely fine. Better to get the basics right!
- Don't spend more than 2-3 hours on this project.

## Submission /Help:

Please complete the project and push your code with a readme file and send the Github/Bitbucket link to: [joao.fernandes@infotrack.co.uk](mailto:joao.fernandes@infotrack.co.uk)

Before you submit, please make sure you've checked the following:

- ✓ Make sure the application can be loaded and run with minimum configuration.  
We recommend cloning / downloading a new instance of your application yourself and try to run it before you submit it.  
Common mistakes:
  - Reference to Local files or dlls
  - CORS not set up (.NET core application)
- ✓ Create a readme file of any steps required to run your application
- ✓ If your application uses a DB, make sure to send a SQL script containing the DB Schema creation and any initial data. Make sure to include where we can find the connection string in readme file