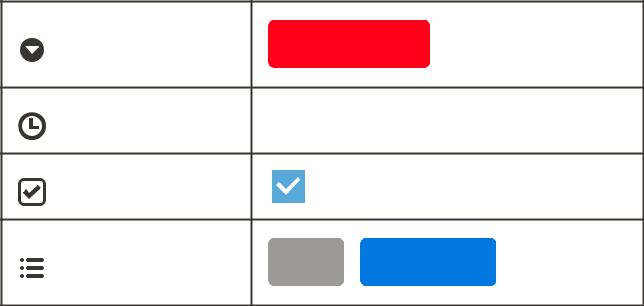


**Backend Engineer Test (Chuck/Swapi/C#)**



Focus Backend

Last Edited Oct 15, 2020 9 15 AM

Ready

Tech Stack C# Dotnet

At SovTech our development teams are multidisciplinary, and we C# and dotnet. It saves us time, works incredibly well, and opens up many many doors. We’ve put this test together to afford Fullstack engineers at any level out there, the freedom to prove their skills

Estimated completion time (skill dependant): **~ 6 - 8 hours**



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Backend Engineer Test Chuck/Swapi/C#) 1

**What is the technical challenge?**

We're looking for professionals who are very familiar with the stack we're using.

As this is a Backend engineer test, you are tasked with implementing an OpenAPI (formerly Swagger) compliant web service that abstracts away two downstream APIs; the [Chuck Norris API](https://api.chucknorris.io/) and the [Star Wars API](https://swapi.dev/).

Your API should do the following:

You should develop an OpenAPI compliant API Your API should have 3 root paths:

**/chuck**

**/swapi**

**/search**

It should have an endpoint at /**chuck/categories** which returns the result of <https://api.chucknorris.io/jokes/categories>(all the joke categories)

It should have an endpoint at **/swapi/people** which returns the result of [https://swapi.dev/api/people/](https://swapi.dev/api/people/1/) (all the Star Wars people)

Finally, the **/search** endpoint should call both the [https://api.chucknorris.io/jokes/search?query={query}](https://api.chucknorris.io/jokes/search?query=%7Bquery%7D) and the [https://swapi.dev/api/people/?search={query}](https://swapi.dev/api/people/?search=r2) when queried in order to simultaneously search both the Chuck Norris and Star Wars API. The response should also contain metadata which indicates which API the result belongs to.

The **/search** endpoint should accept query data as a query string

**What are the requirements?**

For this application, you should, at the least:

An OpenAPI compliant API, you can use any packages or libraries



Backend Engineer Test Chuck/Swapi/C#) 2

Create a C# .NET Core based server (any framework/boilerplate can be used)



Push your solution to a public Git repository along with detailed instructions on how to bootsrap your service within the README



Ensure that a link to your submission are emailed to us



Optionally, services such as CodeSandbox, Heroku, AWS, DO etc. may be used to demo your build.

**How will you be scored?**

This test we feel allows you to express your resourcefulness with many Fullstack elements. It is for this reason we have left it pretty open.

Aspects to note:

A lot of emphasis will be on your familiarity with modern C# and Dotnet development, tooling and techniques



Most best-practices and standards should be portrayed in your file organization,



methods, naming conventions etc.

Your ability to execute the required task



**Are there any other considerations?**

Again, use this test as an opportunity to express yourself. Here are some of the things we use and like - only to keep in mind, of course

We like Git



We believe in a DevOps culture



We believe in quality code (think tests)



We always consider responsiveness



We always go above and beyond



We like all the new GraphQL things (think Prisma, Hasura etc.)



Backend Engineer Test Chuck/Swapi/C#) 3

We value security, strongly



We like Serverless



We like containerisation



We like clean code



**Closing**

Thank you for taking the time to complete this test. We look forward to your submission. If you have any feedback, please feel free to share it with us. As we are continuously improving our hiring process.

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