Dear Candidate,

As part of our interview process - we request that you take a practical to demonstrate your knowledge of coding and testing. It is expected that this will take no more than about 2hrs - although it’s not timed. Please review the attached markdown file (open in your favorite MD editor or with Notepad or similar if you don’t have one). This should give you the background needed for completing the task. You are expected to complete this using either C# with .NETCore or Javascript/Typescript (NodeJS) - but if you would like to do this in other languages (GoLang, Rust, Python, Ruby) - we're open -- just please consult with us first so that we can route it to the right reviewer(s).

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With this practical assessment, it is expected that you:

\* work on this applying "open book/notes" - Googling for answers and copying solution parts is OK (please just annotate them as such) -- **having a friend do this is not OK**

\* create a complete package as you would find in NPM or similar (pkg file, project file, etc.) - enough so we can easily build the solution on our end

\* zip (or gz or tar or name your favorite packaging software) the solution along with a contained README.md, tests, etc. to demonstrate "you got it to work"

\* even if you didn’t complete it 100% - send us what you did with notes about what you would do

\* we expect to see your submission in 1-3 business days - but do realize that things come up -- please contact us if you need a little extra time.

\* do not hesitate to reach out if you have questions - we didn’t plant any "tricks" in these problems (although there are some special cases to consider)

\* in closing -- show us your skills and what you can bring to the team!