Cell 5 Demo Project

We would expect it to take 2-3 days.

A. Pick a hobby that you enjoy and build a working CRUD application that demonstrates your abilities across the full stack.
B. It should have a list, edit, create, delete capabilities in the UI and API.
C. You should also make sure the list view can be filtered and sorted, and ideally try to implement one of these as a server side and one client side so that you can demonstrate some knowledge of data processing. What I mean by filtering and sorting is for example, if you have some listing it should support some nested sorting by first-name then last-name. And a filter search box says by some tag or attribute of your data.
D. Store the data wherever you want, but make it realistic, not just in memory code. E.g. (some NoSQL store, or SQL, or Firebase or MongoDB etc).
E. **Frontend technology stack is in React+Typescript. Backend technology stack is in .Net 6 and C#.**
F. Showcase your usage of an ORM and good OOP approaches for developing your backend classes.
G. Should have at least one 3rd party enrichment integration. For example if you picked famous persons as your hobby you could query wikipedia and show some additional information from there, you can do this on the front end or back end depending on your preference.
H. Test cases. We would expect you to add at least one front end and one back end meaningful test of some type. Feel free to show off if you already know good testing patterns for these technology stacks, if not, make sure you learn and implement at least something basic.

Submission should be:

- **1 or 2 github link repositories (code)**
- **A screen recording link of the working demo with you explaining it both functionally and technically**

Including things you do know, but also areas you have yet to learn and do not yet know (be honest), show the code and the app in the screen recording. The screen recording should start with you showing the app as a demo as if talking to a customer or teaching a junior programmer. Then you should spend more time (most of the screen cast) talking about the code. If it helps you can pretend you are teaching a junior how to program, or how the tech or tool you used works. It is really important you talk about the architecture, layers but also the code details for a few functions and endpoints so we can understand it is your work, and what you know.

Send update or questions to hr@cell5.co.uk

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