Fearless Trial Project
Software Engineer

Context

It's 2021, we are experiencing a pandemic and also a renewed civil rights movement is growing in our country. All Fearless employees are working from home. You are a Software Engineer on a project team that has been asked to create a series of proofs of concept that supports the customers public health and social justice initiatives. You have been assigned to build the proof of concept for a counting application called "Project Purple Cow".

The team has carved out two hours to complete this proof of concept. If you finish in less time, great! But because the requirements are evolving rapidly, to avoid any rework, don't spend much more than two hours on this project.

As a values-led organization, Fearless wants to ensure responses align to its culture code of *creating belonging*, *opening dialogue, taking initiative*, and *making an impact*. You can learn more about Fearless's culture here: [Culture Code](#) / [Core Beliefs](#) / [Purple Cow Story](#)

Project Purple Cow Definition

Must Haves

1. Web application interface that uses Javascript and HTML that is served on port 3000

2. Use the https://countapi.xyz/ api to manage counting;

   a. Key: `1ccb732e-b55a-4404-ad3f-0f99c02fe44e` [Note: this not a secret]

3. Provide a single button to "hit" the counting api and display the current number of hits

4. Runs locally with a single startup command

5. Should run correctly in Chrome; don't worry about cross-browser compatibility

6. Includes a solution.md that provides relevant documentation including how to build and run the solution

Nice to Haves

1. Includes a Dockerfile that will run and serve the web application

2. Any components are reusable (i.e. could have multiple copies on the same page)

3. The port the solution is served on is configurable and documented in the solution.md

4. Implements other features to demonstrate your skills

Additional Guidance

1. The customer has not yet selected particular technologies, so you are free to use front-end frameworks and/or starter projects as appropriate

Assignment

1. Build a proof of concept according to the requirements above and check it into a public Git repository (e.g. Github, GitLab, etc) and link that repository in the response.

   ○ The git history of the main branch will be examined

   ○ Multiple commits are preferred over a single commit to demonstrate your thought process

2. In a solution.md in the root of the repository:

   ○ List any future updates, changes, or outstanding code you would like to add or would recommend be added

   ○ Document any assumptions, changes, or details of the implementation that materially impact the addition of future features.

3. Be prepared to spend 15 to 30 minutes discussing your approach and implementation with another Software Engineer.