

Full-stack Software Engineer - Take Home Test

Submission instructions:

Please upload your solution to a private GitHub repo, and share the repo and the link with:

- jack@poly-ai.com
- faizaan@poly-ai.com
- nick@poly-ai.com

Question:

Mr Little Z has multiple spaceships in his spaceport, and he finds it hard to keep track of them. He has built a web application to help him find the best spaceship for the job each day.

For maximum efficiency, Mr Little Z would like to be able to filter his spaceships on the following attributes:

- Colour
- Pulse laser
- Average speed

He also wants to be able to share the URL with other people so that the filters are applied on the first load. Unfortunately, Mr Little Z is not an Engineer and hasn't built his app very well and is also missing some key features from his app.

He needs you to finish the app for him. He needs you to:

- Build the average speed filter. This should be able to filter by:
 - Less than
 - Greater than
 - Between
- Load filters from the URL on first load of the app
- Find and fix any bugs in the existing code
- Refactor any code you think could be done more efficiently

Things we want to see:

- Build your filter component from scratch (please do **not** use a UI component library, like MUI or AntD)
- Creative design of component
- Clean self documenting code
- Ability to spot and fix bugs

- Sensible refactoring to the code