

Front End challenge

This is where you get to show us what you can do. Write us a single page app that fulfils the spec below and meets the criteria listed.

We know tech tests have a habit of taking a whole weekend, but that's not necessary here. You should spend a few hours on this (that's what we're expecting). Of course if you want to spend a weekend and build The World's Greatest Tech Test we'd be thrilled to review it.

We also use this same test for all of our developers - junior, senior, principal etc - and we'll be keeping the level of the role in mind when reviewing. So junior devs will get a little more slack, while principal devs should come prepared to make us wonder if we're even qualified to review your work.

The Spec

So just what is it that this app should do?

It should just meet the following requirements:

1. You should be able to upload a new cat image
2. You should be able to view the cat images you uploaded
3. You should be able to favourite and unfavourite a cat
4. You should be able to vote a cat up or down
5. You should see a score on each cat based on the votes

The Criteria

- The app should look professionally made. We're not expecting you to create your own Design System but the styling should stand up as a modern website to non technical users, and be ok at various screen sizes.
- Pick the front end framework relevant to the job you're applying for. This is most likely between React and Angular, but if the job description says Svelte....
- A lot of modern software development is about using 3rd party packages the right way, so pick your favourites and show us you know how to use them
- We're expecting the app to do things you'd expect of a modern website, and your understanding of what that means is part of the Test! Things like validation and error handling wouldn't be a bad place to start though..

The API

The API that your web app should integrate with is thecatapi.com

The Acceptance criteria

Requirement 1: Uploading the Cats

Create a page at “/upload” that lets you upload a new cat image. The requirements are:

1. Allow a user to select a file from their PC to upload
2. Uploads the image to [this](#) API endpoint.
3. After uploading successfully it returns the user to the “/” page, otherwise it displays validation errors and errors returned from API.

Requirement 2: Listing the Cats

Create a page at “/” that lists the cat images that you have uploaded using [this](#) API endpoint.

1. Display in a responsive way, up to a maximum of 4 cat images per row, it should neatly scale down to a 340px wide viewport and ensure images are not stretched.

Requirement 3: Favoriting the Cats

On the listing at “/” add a “favourite” / “unfavourite” button (it can also be a filled/unfilled heart if you desire) that allows the user to toggle saving the image as a favourite. The requirements are:

- Clicking “favourite”, calls [this](#) API endpoint and changes text on button to be “unfavourite” (or heart to filled).
- Clicking “unfavourite”, calls [this](#) API endpoint and changes text on the button to be “favourite” (or heart to unfilled).

Requirement 4: Voting the Cats

On the listing at “/”:

- Add a “vote up” and a “vote down” below each of the Cat images that calls [this](#) API saving the vote made on the Cat

Requirement 4: Scoring the Cats

- Display the score for each cat below the image using [this](#) API endpoint. The score is equal to (Number of up votes - Number of down votes)