Viasat - Take Home Technical Challenge - Frontend

Brief

Using JavaScript and React, your assignment is to create a single page web application that displays SpaceX launch data utilising the free [SpaceX API](#) following the wireframe design provided. We expect this project to take 3-4 hours. If you find it's taking too long please just submit what you have time for completing as many functional requirements as you can.
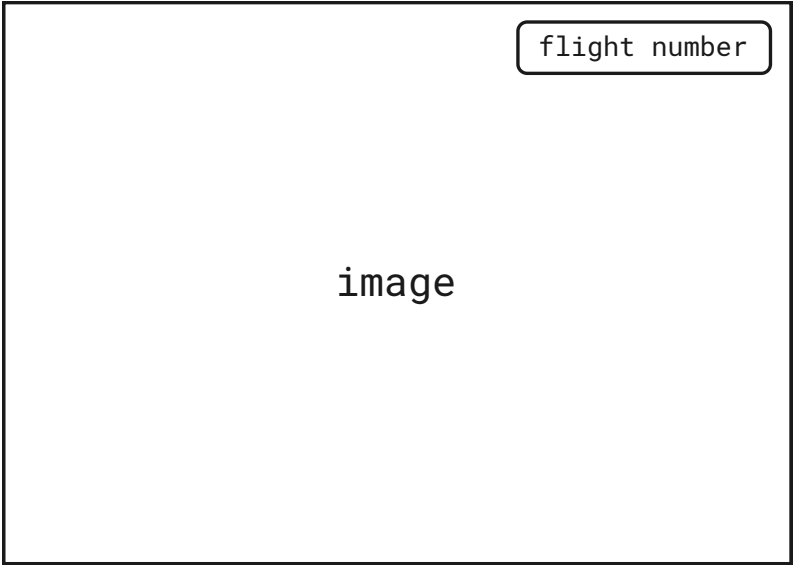
Functional Requirements

- Create a single page web application:
    - You may use any library & bundler you like, e.g. Vite, Create Next App or by bootstrapping your own project.
    - You may use a UI library to help you build components, e.g. Material UI
- Using the [SpaceX APIs](#), display the following:
    - A list of past and upcoming launches with
        - An image of the launch, title, details and flight number
        - Launch date in UTC formatted for (DD/MM/YYYY HH:MM:SS)
    - List should have pagination with max 12 launches per page
        - Next/Previous buttons
        - Page numbers
    - A filter should be displayed that allows data to be filtered by:
        - Unsuccessful launches
        - Past & upcoming launches
    - A filter query function that:
        - Searches date ranges
        - Changes result order by ascending or descending
    - A loading state when fetching from an API
    - A 'no results' state if no results are displayed
    - A persisted state in either local or session storage
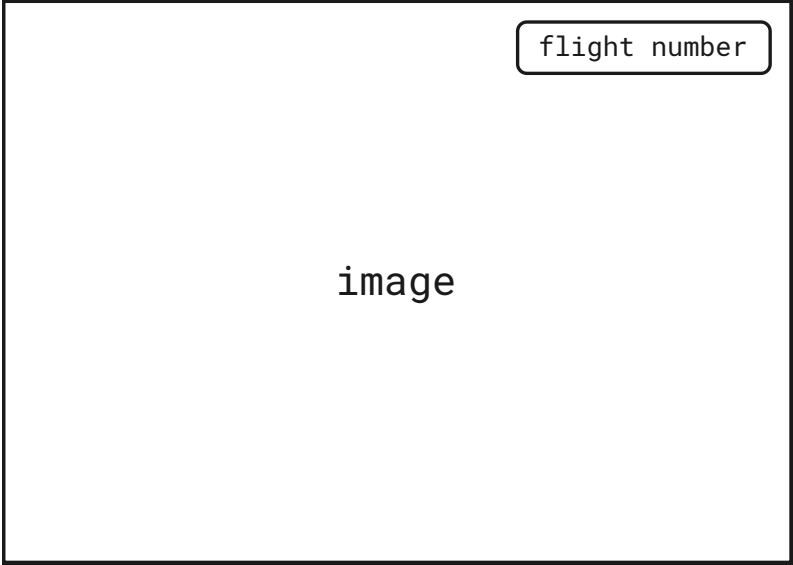   - A basic responsive design (at least 1 breakpoint)

Submission Requirements

- All functional requirements met to the best of your ability
- Code is unit tested using whatever library you like (recommend React Testing Library)
- Separation of logical functions from your presentational components
- Interactive states are catered for, e.g. hover, focus
- Project shared on a git repository we can access
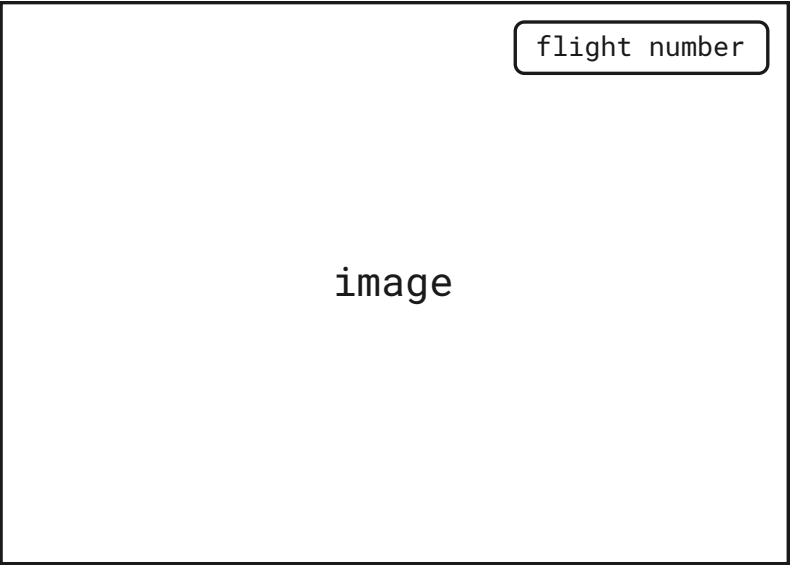- Instructions for running the project, build and tests

Optional requirements

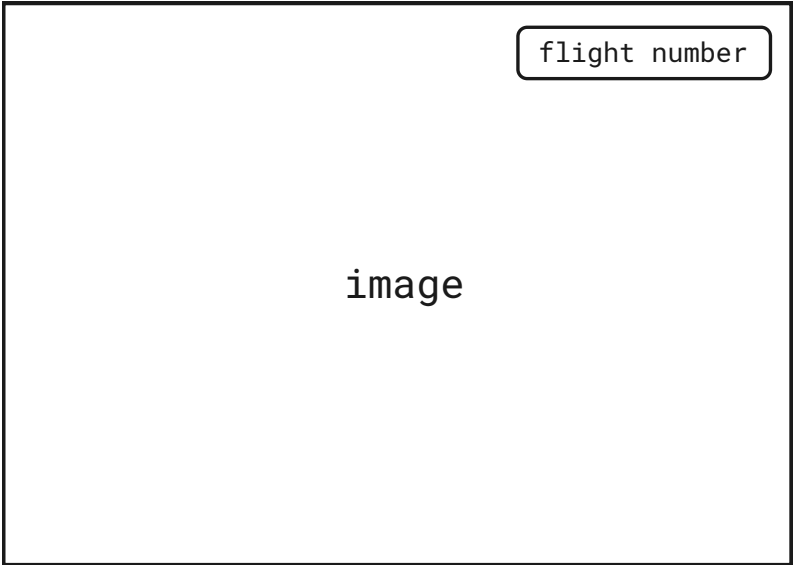- One end to end test
- WCAG 2.1 Accessible

Page Title

flight number
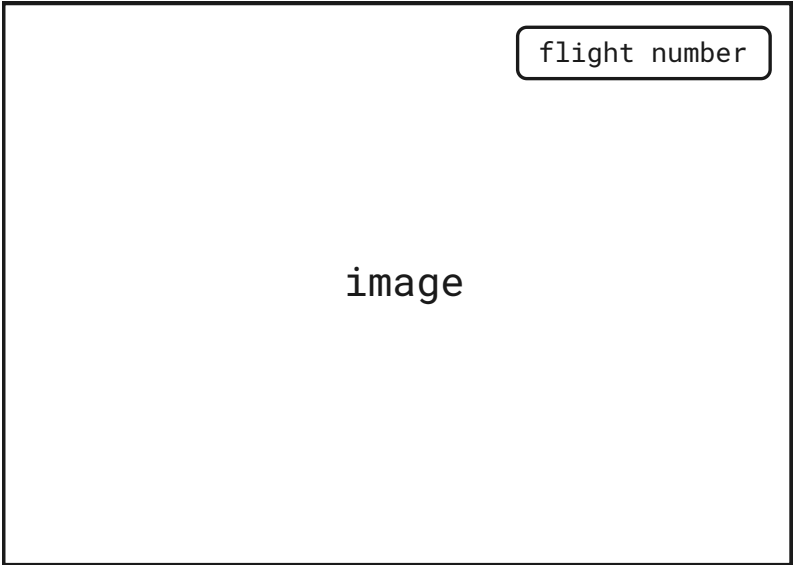
image

Title [Rocket]   Date

Details

flight number

image

Title [Rocket]   Date

Details

flight number

image

Title [Rocket]   Date

Details   Rocket

flight number

image

Title [Rocket]   Date

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Title [Rocket]   Date

Details

flight number

image
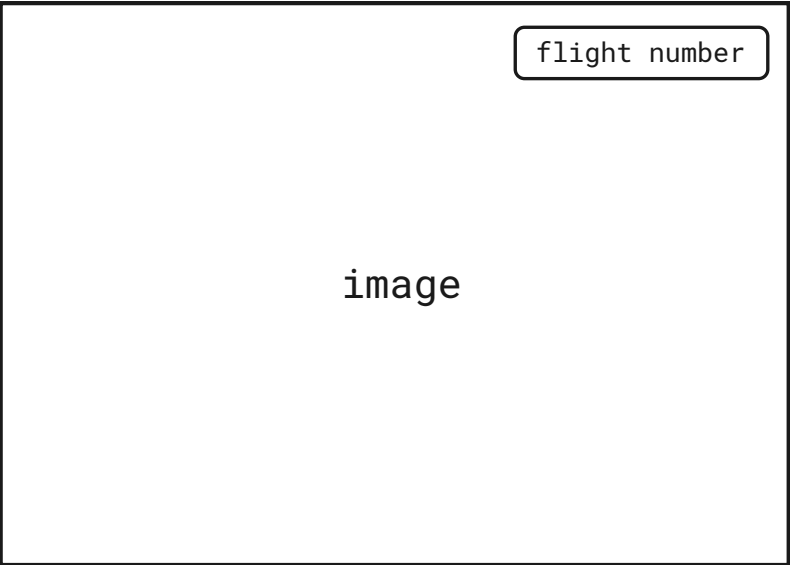
Title [Rocket]   Date

Details

Filter Component

Page Title

Filter   Search 🔍

- ☐ Upcoming Launches
- ☐ Past Launches
- ☐ Unsuccessful Launches

Apply

Search Component

Page Title

Filter   Search 🔍

SEARCH   📅 Date   to   📅 Date   ORDER   ● Ascending   ○ Descending   Go!

Page Title

Filter 🔍

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flight number

image

Title [Rocket]   Date

Details

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flight number

image

Title [Rocket]   Date

Details

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flight number

image

Title [Rocket]   Date

Details

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flight number

image

Title [Rocket]   Date

Details

[Previous] [1] [2] [3] [...] [Next]

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⬤ Ascending   ◯ Descending

[Go!]