

Coding Assignment

Problem statement: Develop a front-end application which would help users list and browse all launches by SpaceX program.

Submission deadline: Monday, 5th April 2021 Midnight.

Important API information that would help you to fetch the data

API end point for the first-time page load without any Filters:	API end point with Filters applied:
https://api.spaceXdata.com/v3/launches?limit=100	Launch Success Filter: https://api.spaceXdata.com/v3/launches?limit=100&launch_success=true Launch & Land Filter: https://api.spaceXdata.com/v3/launches?limit=100&launch_success=true&land_success=true All: https://api.spaceXdata.com/v3/launches?limit=100&launch_success=true&land_success=true&launch_year=2014

Assignment Requirements:

- Functionalities
 1. The initial launch programs landing page ideally should be server-side-rendered.
 2. A boilerplate to implement the Server-side rendering can be used.
 3. User should be able to Filter the results with help of provided Filters.
 - Filter options are hard coded with the values shown in the visual comp below.
 - Applying any Filter should reflect the below changes:
 - Selected filter should change to selected state as shown in the visual comp.
 - Applied filters should change the URL and update the Page with latest records without refreshing the page.
- Responsive Design and other UI elements.
 1. Page should visually match with the provided designs at the end of this file.
 2. Responsive Behavior – Expectation is to do a custom media query implementation and not use bootstrap or similar responsive framework:
 - Implementation should follow Mobile first design approach
 - **Mobile View:** Page should have only one Column until 700 px. We have provided the Visual designs for Mobile screen.
 - **Tablet View:** Page should have 2 columns between 700 and 1024 px. Design is provided for Desktop tile and that should be followed for this viewport.
 - **Desktop View:** Page should have 4 columns between 1024 and 1440 px. Beyond 1440px viewport, the content will be centered align with a max width of 1440.
- On git - elaborate your approach and stack details in the Readme file.

The ask:

1. Develop a responsive layout matching the visual comps provided. The tablet version to have a 2-column product tile layout.
2. Unit tests for Components to test the functionalities will be a bonus.
3. Incorporate all performance best practices and demonstrate a high Lighthouse score for Performance, SEO and Accessibility, and share the same as part of the readme file through screenshots.

Submission.

1. Deploy the code to your preferred hosting platform, eg: - Heroku, and share the deployed URL of the app.

Visual Designs for the assignment on the next 2 pages.

SpaceX Launch Programs

Filters

Launch Year

- 20062007
- 20082009
- 20102011
- 20122013
- 20142015
- 20162017
- 20182019
- 2020

Successful Launch

- TrueFalse

Successful Landing

- TrueFalse



FalconSat #1

Mission Ids:
• {list Mission Ids}

Launch Year: 2006

Successful Launch: false

Successful Landing: {launch_landing}



DemoSat #2

Mission Ids:
• {list Mission Ids}

Launch Year: {launch_year}

Successful Launch: {launch_success}

Successful Landing: {launch_landing}

Developed by:
{developer name}

SpaceX Launch Programs

Filters

Launch Year

2006

2007

2008

2009

2010

2011

2012

2013

2014

2015

2016

2017

2018

2019

2020

Successful Launch


True

False

Successful Landing

True

False



FalconSat #1


Mission Ids:

- {list Mission Ids}

Launch Year: 2006

Successful Launch: false

Successful Landing: {launch_landing}



DemoSat #2


Mission Ids:

- {list Mission Ids}

Launch Year: {launch_year}

Successful Launch: {launch_success}

Successful Landing: {launch_landing}



Trailblazer #3


Mission Ids:

- {list Mission Ids}

Launch Year: {launch_year}

Successful Launch: {launch_success}

Successful Landing: {launch_landing}



RatSat #4


Mission Ids:

- {list Mission Ids}

Launch Year: {launch_year}

Successful Launch: {launch_success}

Successful Landing: {launch_landing}



{mission_name} # {flight_number}


Mission Ids:

- {list Mission Ids}

Launch Year: {launch_year}

Successful Launch: {launch_success}

Successful Landing: {launch_landing}



{mission_name} # {flight_number}


Mission Ids:

- {list Mission Ids}

Launch Year: {launch_year}

Successful Launch: {launch_success}

Successful Landing: {launch_landing}



{mission_name} # {flight_number}


Mission Ids:

- {list Mission Ids}

Launch Year: {launch_year}

Successful Launch: {launch_success}

Successful Landing: {launch_landing}



{mission_name} # {flight_number}

Mission Ids:

- {list Mission Ids}

Launch Year: {launch_year}

Successful Launch: {launch_success}

Successful Landing: {launch_landing}

Developed by: {developer name}