

LeanTaaS - FE Coding Challenge

For this challenge, build a mini application that will display images from NASA's Curiosity rover for a given *sol* (*sol* = [a day on mars](#)). You may use any front end framework you feel comfortable with, Angular, React, etc. but do **NOT** use any additional UI libraries (no Bootstrap, Material, etc.)

Please share the working code via <https://stackblitz.com/> or a link to a Github repo.

Requirements

- Use the Mars Rover Photos API from NASA (<https://api.nasa.gov/>)

Examples:

- https://api.nasa.gov/mars-photos/api/v1/rovers/curiosity/?api_key=DEMO_KEY
- https://api.nasa.gov/mars-photos/api/v1/rovers/curiosity/photos?sol=1000&api_key=DEMO_KEY
- Allow users to **filter** which cameras are included on the page. The values in this "Cameras" filter should be **populated dynamically**
- Allow user to change the *sol*
- For each of the selected cameras, display:
 - The camera name
 - The number of photos the camera took on the given *sol*
 - A sample photo, if one is available for that camera on that *sol*
 - **See below for design**

Default view:


7 Selected

Sol14

Front Hazard Avoidance Camera

Photos: 4


Sample photo:



Navigation Camera

Photos: 40


Sample photo:



Mast Camera

Photos: 14

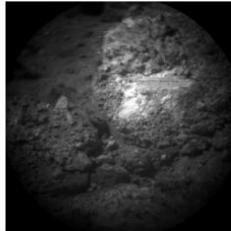
Sample photo:



Chemistry and Camera Complex

Photos: 12

Sample photo:



Mars Hand Lens Imager

Photos: 0

Mars Descent Imager

Photos: 0

Rear Hazard Avoidance Camera

Photos: 0

User interacts with camera filter:

4 Selected

Sol14

Select AllClear

☒ Front Hazard Avoidance Camera

☒ Navigation Camera

☐ Mast Camera

☐ Chemistry and Camera Complex

☐ Mars Hand Lens Imager


☒ Mars Descent Imager

☒ Rear Hazard Avoidance Camera

Navigation Camera

Photos: 40

Sample photo:



Mars Descent Imager

Photos: 0

Rear Hazard Avoidance Camera

Photos: 0

Close up of camera filter:

