

Join
our
team

ebay



Hey!

We're happy to let you know that you passed the phone interview, so now we would like to get to know you better with a task.

The aim of this task is to give you insight into the day to day of this role, and let us see your creativity, skills and experience.

As a frontend developer, you will be tasked with adding new features to our client app which is used by several teams at ebay. Adding new features requires familiarity with frontend development and react library, it also requires good coding skills and good planning. We hope you will enjoy the challenge and wish you good luck.

The challenge:

Looking at the stars is great, watching actual images and data from mars is even better. You will need to integrate with NASA APIs and show images and weather information from mars.

What will you need to do:

1. Create a client application that will use the reactJS library, no UI lib is allowed (like bootstrap.. etc.)
2. Create 3 pages, Information for each page is detailed in the section below.
3. Enable navigation between pages and illustrate the current page in the browser url.
4. Separate your code into components and pages.
5. Use of a state management library is allowed but not required.
6. Use NASA provided API to show real images and weather information in the required pages.
7. Pixel perfect - We expect you to stick to the provided mockups, responsiveness can give extra points but is not a must. Try and use correct css.
8. CSS - try and use the minimum amount of css rules, and HTML tags.
9. File structure, try and create a good file structure with good separation of components.

Join
our
team

ebay



Pages requirements:

A UI mockup is provided, you can use your imagination to make it even better.

1. About page - This page should contain Curiosity rover image and on the right side information about the mission, this information can be found in NASA website <https://mars.nasa.gov/msl/home/> , you should also show buttons that lead to the other two pages, in the bottom of the screen show a carousel of images from the last day.
2. Images by date page - This page allows the user to enter a date and get the relevant images for that date. (Bonus - when hovering on images you can see the image information.)
3. Mars weather - This page should show mars weather information based on the data points provided in the api. (Bonus - use a graph library like chartjs to show data in graphs.)

NASA APIs

<https://api.nasa.gov/index.html#browseAPI>

Information for each api is listed in this page

Mars Rover Photos - Example for getting images:

https://api.nasa.gov/mars-photos/api/v1/rovers/curiosity/photos?earth_date=2020-11-1&api_key=DEMO_KEY&page=1

Since there are not always images, you can use the following parameter in this url: earth_date=2020-07-14 and not use the current date

InSight: Mars Weather Service API - example for getting weather information:

https://api.nasa.gov/insight_weather/?api_key=DEMO_KEY&feedtype=json&ver=1.0

Since there are not always images, you can add the following parameter to this url: earth_date=2020-07-14 and not use the current date

More information about this API:

<https://api.nasa.gov/assets/insight/InSight%20Weather%20API%20Documentation.pdf>

Once you finish the home challenge send a link to the github where this project is located.

If you will also deploy it to a website, you will get extra points.

Good Luck.

Join
our
team

ebay



eBay is one of the world's largest online marketplaces with 1.5 billion live listings and 174 million active users. eBay is also one of the fastest growing shopping destinations for a comprehensive set of products from thousands of trusted stores from across the Web. Whether buying new or used, everyday use or luxury, commonplace or rare, trendy or one-of-a-kind – if it exists in the world, it's probably for sale on eBay. eBay is powered by the many sellers and small businesses on its platform and driven by its purpose to empower people and create economic opportunity.