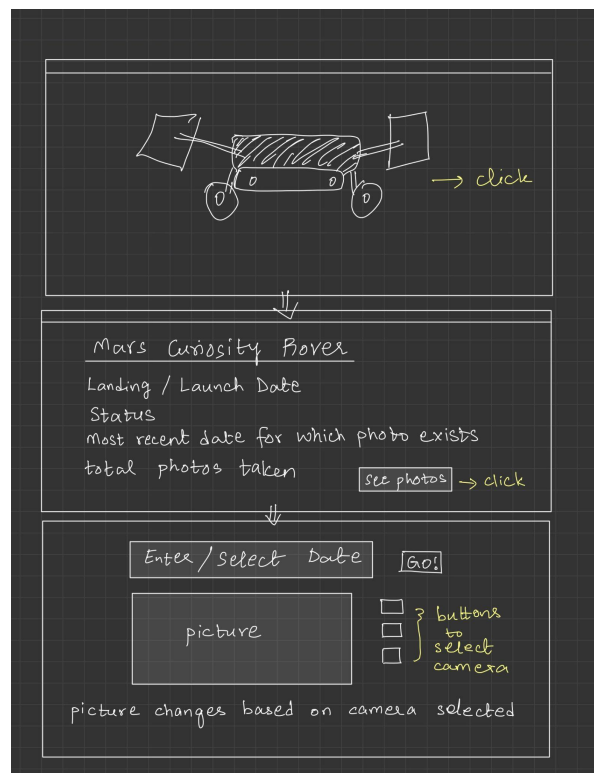


For this project, I intend to make a webpage that enables the user to look at Mars through the lens of the “Curiosity” rover. I plan to make use of NASA’s “Mars Rover Photos” API which stores raw images taken by Curiosity from the time of its landing till today. The audience of my webpage could be anyone who may be interested in knowing more about Mars or how it looks like, it is not by any means intended for space experts, in fact, it aims to reach anyone who may be “curious” to know more about the neighboring planet which has often been rumored to have life dwell on it in the past.

The intention behind making this webpage is to make photos taken by Curiosity available to a wider range of people and to spark greater interest in space exploration. Countless efforts go into making such missions successful and this website aims to acknowledge them.

I started off by going through different “space” APIs available on Google. I found a bunch of APIs available on [NASA's website](#), of which I found the “Mars Rover Photos” API to be the most interesting. I then started to wireframe my webpage and came up with an initial design that would show a picture of the Curiosity rover to the user without any description (so that the user tends to click on it). Once clicked, details about the rover would be revealed such as its name, launch\landing date, current status, and number of photos it has taken until today. Upon hitting a “view photos by date” button, an input box would be displayed to the user to enter a date ranging from the rover’s landing date until today. Once the date is entered, the user would be able to view photos taken by Curiosity on that date and change the camera as well.



At first, I wanted to make a webpage that would display pictures of rovers and space shuttles from different space missions launched in the 21st century. The missions would be scattered throughout a galactic background and upon clicking on one of them, the user would be able to view a range of details such as the mission's name, its launch date, whether it is still active, its findings and pictures. I also thought about implementing the same idea with only currently active space missions (which add up to 80). However, besides not being able to find APIs having all this info, I also thought that it won't be as interesting and meaningful to the user as looking at a planet through the eyes of a rover would be. Moreover, scattering many missions throughout the screen would make it less fun on a mobile screen. So I decided to go with the "Mars Curiosity Rover" idea in the end since I also found reliable and informative APIs for it from NASA's own [website](#).

I wish to extend the idea and also include two other rovers that were sent to Mars before Curiosity - Spirit and Opportunity. Upon opening the webpage the user would be able to see all three rovers and clicking on one of them would reveal their information. After which the user would be able to enter dates to reveal different photos taken by that rover on that particular day.