

NasaScraper class written for DataScape/DataApp/viewmodels.py to retrieve the NASA Astronomy Picture of the Day (APOD) and related info using NASA's API

```
class NasaScraper:

    def __init__(self):

        # Open the URL for the NASA API endpoint for their Astronomy Picture of the Day (APOD) and provide required
        # API key to allow limited rate access to this resource.
        url = 'https://api.nasa.gov/planetary/apod?api_key=kK4OwaUtVghqi9A1m40BsWAueYlagAIUQFM6FYlw'
        serialized_data = urllib.request.urlopen(url).read()

        # Load JSON response into data object and access known key names in order to set NasaScraper attributes.
        data = json.loads(serialized_data)
        self.image_src = data['url']
        self.title = data['title']
        self.detail = data['explanation']
        self.date = data['date']
```

nasa_data function written for DataScape/DataApp/views.py to render a request for the NASA image of the day page.

```
def nasa_data(request):

    # NasaScraper object has attributes for date, source url, title, and description for
    # the NASA Astronomy image of the day.
    nasa = NasaScraper()
    return render(request, 'DataApp/nasa_data.html', {'nasa': nasa})
```

nasa_data.html template written for DataScape/DataApp/templates/DataApp to display the NASA APOD and related info on the user's browser.

```
{% extends 'base.html' %}

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>NASA APOD</title>
</head>
<body>
    {% block content %}
    <h1>NASA Astronomy Picture of the Day for {{ nasa.date }}</h1>
    <img id="apod_img_id" src={{ nasa.image_src }} width="900px"/>
    <h2 id="apod_title"><b>{{ nasa.title }}</b></h2>
    <h4> {{ nasa.detail }}</h4>
    {% endblock %}
</body>
</html>
```