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Section:

        BSAI-4C

Task:

        (8)

NASA Project Using API

A) File(App.py)

```python
from flask import Flask, render_template

import requests
app = Flask(__name__)

NASA_API_KEY = "A3ozKhnHKAq60rTxopeO8Viqbxhu60H46k2aK66v"


APOD_URL = "https://api.nasa.gov/planetary/apod"

@app.route('/', methods=['GET'])
def index():

    params = {"api_key": NASA_API_KEY}
    response = requests.get(APOD_URL, params=params)
    apod_data = response.json()

    return render_template('index.html', apod_data=apod_data)

if __name__ == '__main__':
    app.run(debug=False)
```

B) file (Requeirments.txt)

1) flask
2) request

C) file(index.html)

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <title>NASA Astronomy Picture of the Day</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 40px;
            background-color: #f0f8ff;
            color: #333;
        }
        h1 {
            text-align: center;
        }
        .container {
            max-width: 800px;
            margin: 0 auto;
        }
        .media {
            text-align: center;
            margin: 20px 0;
        }
        img {
            max-width: 100%;
            height: auto;
            border-radius: 8px;
        }
        iframe {
            width: 100%;
            height: 480px;
            border: none;
            border-radius: 8px;
        }
        .explanation {
            background-color: #ffffff;
            padding: 15px;
```

```
            border-radius: 8px;
            box-shadow: 0 0 10px rgba(0,0,0,0.1);
        }
        .title {
            font-size: 24px;
            margin-bottom: 10px;
        }
        .date {
            font-size: 14px;
            color: #555;
            margin-bottom: 20px;
        }
    </style>
</head>
<body>
    <h1>NASA Astronomy Picture of the Day</h1>
    <div class="container">
        <div class="title">{{ apod_data.title }}</div>
        <div class="date">{{ apod_data.date }}</div>
        <div class="media">
            {% if apod_data.media_type == 'image' %}
                <img src="{{ apod_data.url }}" alt="{{ apod_data.title }}">
            {% elif apod_data.media_type == 'video' %}
                <iframe src="{{ apod_data.url }}" allowfullscreen></iframe>
            {% else %}
                <p>Media type not supported.</p>
            {% endif %}
        </div>
        <div class="explanation">
            <p>{{ apod_data.explanation }}</p>
        </div>
    </div>
</body>
</html>
```

Output:

NASA Astronomy Picture of the Day

The Surface of Venus from Venera 14

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