

PDS ASSIGNMENT 3 & 4

Name: Vinisha Vimal Kumar Shukla

ID: 16344280

QUESTION 1

- a) I utilized the SportsPage Feeds API to access sports-related data. Through the Python requests library, data from the SportsPage Feeds API was fetched, providing real-time sports rankings information.

The screenshot shows the RapidAPI interface for the Sportspage Feeds API. The API is listed as 'FREEMIUM' and 'Verified'. It has a popularity score of 9.8 / 10, a latency of 162ms, a service level of 100%, and a health check of 100%. The API is updated 6 days ago and is categorized under 'Sports'. The 'Endpoints' tab is selected, showing the 'GET Rankings' endpoint. The endpoint description states 'League rankings (currently supports NCAAF and NCAAB)'. The 'Test Endpoint' button is visible. The 'Code Snippets' tab is also selected, showing a Python code snippet for fetching the rankings data. The code snippet is as follows:

```
import requests

url = "https://sportspage-feeds.p.rapidapi.com/rankings"
querystring = {"league": "NCAAF"}

headers = {
    "X-RapidAPI-Key": "c04adfea25mshac7f6df7b9dfa70p1fb2cdj5n5fb2f22c98f2",
    "X-RapidAPI-Host": "sportspage-feeds.p.rapidapi.com"
}

response = requests.get(url, headers=headers, params=querystring)
print(response.json())
```

The footer of the page includes the text '© 2024 RapidAPI. All Rights Reserved.' and links to 'About', 'Blog', 'Learn', 'Careers', 'Press', 'Contact', 'Terms', and 'Privacy'. The language is set to 'English'.

```

import dash
from dash import html, dcc, Input, Output
File display tests

# Initialize Dash app
app = dash.Dash(__name__)

# Set up layout
app.layout = html.Div([
    html.H1("NCAAF Rankings"),
    dcc.Loading(id="loading", children=[html.Div(id="output")])
])

# Callback to fetch and display data
@app.callback(
    Output("output", "children"),
    [Input("loading", "loading_state")]
)
def update_output(loading):
    # Fetch data from API
    url = "https://sportspage-feeds.p.rapidapi.com/rankings"
    querystring = {"league": "NCAAF"}
    headers = {"X-RapidAPI-Key": "1342981e3emshc7a5f249e891318pla214fjsn76e638f920ee"}
    try:
        response = requests.get(url, headers=headers, params=querystring)
        response.raise_for_status()
        data = response.json()
        # Process and format the data for display
        rankings = [
            html.Div([
                html.H2(rank['name']),
                html.Ul([html.Li(f"{team['rank']}. {team['team']}") for team in rank['rankings']])
            ])
            for rank in data['results']
        ]
    except requests.exceptions.RequestException as e:
        return html.Div(f"Error fetching data: {e}")

    return rankings

# Run the app
if __name__ == '__main__':
    app.run_server(debug=True)

```

1. b) The output displays NCAAF rankings and Coaches Poll and dynamically updates to display the latest sports rankings fetched from the SportsPage Feeds API. Users can view this information in real-time within their web browser.

```

import requests
File display https://sportspage-feeds.p.rapidapi.com/rankings

querystring = {"league": "NCAAF"}

headers = {
    "X-RapidAPI-Key": "ca4adfea25mshac7f6df7b9dfa70p1fb2cdjsn5fb2f22c98f2",
    "X-RapidAPI-Host": "sportspage-feeds.p.rapidapi.com"
}

response = requests.get(url, headers=headers, params=querystring)

print(response.json())

{'status': 200, 'time': '2024-04-16T23:42:27.856Z', 'results': [{'name': 'AP Poll', 'rankings': [{'rank': 1, 'team': 'Michigan', 'teamId': 1056}, {'rank': 2, 'team': 'Washington', 'teamId': 1320}, {'rank': 3, 'team': 'Texas', 'teamId': 1398}, {'rank': 4, 'team': 'Georgia', 'teamId': 1365}, {'rank': 5, 'team': 'Alabama', 'teamId': 1265}, {'rank': 6, 'team': 'Florida State', 'teamId': 1048}, {'rank': 7, 'team': 'Oregon', 'teamId': 1388}, {'rank': 8, 'team': 'Missouri', 'teamId': 1293}, {'rank': 9, 'team': 'Mississippi', 'teamId': 1138}, {'rank': 10, 'team': 'Ohio State', 'teamId': 1387}, {'rank': 11, 'team': 'Arizona', 'teamId': 1113}, {'rank': 12, 'team': 'LSU', 'teamId': 1375}, {'rank': 13, 'team': 'Penn State', 'teamId': 1302}, {'rank': 14, 'team': 'Notre Dame', 'teamId': 1064}, {'rank': 15, 'team': 'Oklahoma', 'teamId': 1065}, {'rank': 16, 'team': 'Oklahoma State', 'teamId': 1145}, {'rank': 17, 'team': 'Tennessee', 'teamId': 1397}, {'rank': 18, 'team': 'Kansas State', 'teamId': 1132}, {'rank': 19, 'team': 'Louisville', 'teamId': 1054}, {'rank': 20, 'team': 'Clemson', 'teamId': 1272}, {'rank': 21, 'team': 'NC State', 'teamId': 1141}, {'rank': 22, 'team': 'SMU', 'teamId': 1307}, {'rank': 23, 'team': 'Kansas', 'teamId': 1053}, {'rank': 24, 'team': 'Iowa', 'teamId': 1209}, {'rank': 25, 'team': 'Liberty', 'teamId': 1373}], 'name': 'Coaches Poll', 'rankings': [{'rank': 1, 'team': 'Michigan', 'teamId': 1056}, {'rank': 2, 'team': 'Washington', 'teamId': 1320}, {'rank': 3, 'team': 'Georgia', 'teamId': 1365}, {'rank': 4, 'team': 'Texas', 'teamId': 1398}, {'rank': 5, 'team': 'Alabama', 'teamId': 1265}, {'rank': 6, 'team': 'Florida State', 'teamId': 1048}, {'rank': 7, 'team': 'Oregon', 'teamId': 1388}, {'rank': 8, 'team': 'Missouri', 'teamId': 1293}, {'rank': 9, 'team': 'Mississippi', 'teamId': 1138}, {'rank': 10, 'team': 'Ohio State', 'teamId': 1387}, {'rank': 11, 'team': 'Arizona', 'teamId': 1113}, {'rank': 12, 'team': 'LSU', 'teamId': 1375}, {'rank': 13, 'team': 'Penn State', 'teamId': 1302}, {'rank': 14, 'team': 'Notre Dame', 'teamId': 1064}, {'rank': 15, 'team': 'Oklahoma', 'teamId': 1065}, {'rank': 16, 'team': 'Oklahoma State', 'teamId': 1145}, {'rank': 17, 'team': 'Tennessee', 'teamId': 1397}, {'rank': 18, 'team': 'Louisville', 'teamId': 1054}, {'rank': 19, 'team': 'Kansas State', 'teamId': 1132}, {'rank': 20, 'team': 'Clemson', 'teamId': 1272}, {'rank': 21, 'team': 'NC State', 'teamId': 1141}, {'rank': 22, 'team': 'Iowa', 'teamId': 1209}, {'rank': 23, 'team': 'Kansas', 'teamId': 1053}, {'rank': 24, 'team': 'SMU', 'teamId': 1307}, {'rank': 25, 'team': 'West Virginia', 'teamId': 1238}]}]}

```

NCAAF Rankings		Coaches Poll
AP Poll		
	<ul style="list-style-type: none"> 1. Michigan 2. Washington 3. Texas 4. Georgia 5. Alabama 6. Florida State 6. Oregon 8. Missouri 9. Mississippi 10. Ohio State 11. Arizona 12. LSU 13. Penn State 14. Notre Dame 15. Oklahoma 16. Oklahoma State 17. Tennessee 18. Kansas State 19. Louisville 20. Clemson 21. NC State 22. SMU 23. Kansas 24. Iowa 25. Liberty 	<ul style="list-style-type: none"> 1. Michigan 2. Washington 3. Georgia 4. Texas 5. Alabama 6. Florida State 7. Oregon 8. Missouri 9. Mississippi 10. Ohio State 11. Arizona 12. LSU 13. Penn State 14. Notre Dame 15. Oklahoma 16. Oklahoma State 17. Tennessee 18. Louisville 19. Kansas State 20. Clemson 21. NC State 22. Iowa 23. Kansas 24. SMU 25. West Virginia

This Python script utilizes Dash to create a live dashboard displaying sports rankings fetched from the SportsPage Feeds API. The code defines a function (`fetch_sports_rankings()`) to retrieve JSON data from the API endpoint (<https://sportspage-feeds.p.rapidapi.com/rankings>). This data includes real-time sports rankings information.