Convert CSV to HTML Table using Python Pandas and Flask Framework

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In this article, we are going to convert a **CSV file into an HTML table** using Python Pandas and Flask Framework.

Sample CSV file :

```
USERNAME,IDENTIFIER,FIRST_NAME,LAST_NAME
booker12,9012,Rachel,Booker
grey07,2070,Laura,Grey
johnson81,4081,Craig,Johnson
jenkins46,9346,Mary,Jenkins
smith79,5079,Jamie,Smith
```

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Stepwise Implementation

Creating Environment

Step 1: Create an environment. Create a project folder and a venv folder within.

py -3 -m venv venv

Step 2: Activate the environment.

venv\Scripts\activate

Step 3: Install Flask and Pandas.

pip install Flask

pip install pandas

Creating Project

Step 1: Create 'app.py' folder and write the code given below.

Python3

```python
# importing flask
from flask import Flask, render_template

# importing pandas module
import pandas as pd


app = Flask(__name__)


# reading the data in the csv file
df = pd.read_csv('sample_data.csv')
df.to_csv('sample_data.csv', index=None)


# route to html page - "table"
@app.route('/')
@app.route('/table')
def table():

    # converting csv to html
    data = pd.read_csv('sample_data.csv')
    return render_template('table.html', tables=[data.to_html()], titles=[''])


if __name__ == "__main__":
    app.run(host="localhost", port=int("5000"))
```
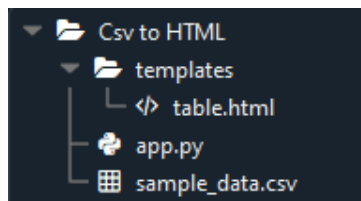
Step 2: Create the folder 'templates'. create the file 'table.html' inside the 'templates' folder.

HTML

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <title> Table </title>
    </head>
    <body>
        <div align="center">
            <table>
                <h1>
                <!--Displaying the converted table-->
                    {% for table in tables %}
                    <h2>{{titles[loop.index]}}</h2>
                    {{ table|safe }}
                    {% endfor %}
                </h1>
            </table>
        </div>
    </body>
</html>
```

Step 3: Add the 'sample_data.csv' file.

Step 4: The project structure will look like this.

Structure of the project

Run the Project

Step 1: Run the server.

Step 2: Browse the URL 'localhost:5000'.

Step 3: The output web page will be displayed.

Output:

	USERNAME	IDENTIFIER	FIRST_NAME	LAST_NAME
0	booker12	9012	Rachel	Booker
1	grey07	2070	Laura	Grey
2	johnson81	4081	Craig	Johnson
3	jenkins46	9346	Mary	Jenkins
4	smith79	5079	Jamie	Smith

Output : CSV to HTML Table

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