Course Completion Report

Python Flask for Beginners

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Web Development Course for Beginners

Introduction

This course is offered at Udemy for free of cost, I took an advantage of this free camp and learnt a lot from this course. It is mainly about the basics of python flask for web development for beginners. This course includes almost 14 videos and 4 sections. The total time required for this course is 1 hour and 49 minutes.

Course Content

Section 1: Introduction
Section 2: The Basics
- **Creating venv (Virtual Environment) and Installing Flask**
- **Creating Hello World App**
- **Handling HTTP GET and POST request methods**
- **Flask Folder Hierarchy**
- **A quiz of Learning**

Section 3: Getting Technical
- **Getting started with jinja2 HTML templates**
- **Styling the app with CSS**
- **Web Forms in Flask Part 1**
- **Web Forms in Flask Part II**
- **A quiz of Learning**

Section 4: Challenge
- **BMI-Calculator instruction**
- **BMI-Calculator Application in Flask**

My Learning and Implementation

Upon the completion of this course I came to know about how to create an application (Form based from scratch) in the flask that is based on the two methods GET and POST. I used this course to implement and create an application that is BMI-Calculator. Although its quite simple but interesting to learn.

Code Implementation:

Python Code (Flask)

```
from flask import Flask, request, render_template
app = Flask(__name__)
@app.route('/', methods=['GET','POST'])
```

```python
def index():
    bmi = ''
    name = ''
    if request.method=='POST' and 'username' in request.form:
        name = request.form.get('username')
        height = float(request.form.get('height'))
        weight = float(request.form.get('weight'))
        bmi = bmi_calc(weight,height)

    return render_template("BMI_APP.html",
                            bmi=bmi,name=name)
def bmi_calc(weight,height):
    return round((weight/((height/100)**2)),2)
```

Code HTML and CSS (Front End)

```html
<!DOCTYPE html>
<html>
<head>
    <title>BMI Calcultor</title>
</head>
<style type="text/css">
    .bmi_cal{
        padding-top: 10px;
        padding-bottom: 20px;
        width: 40%;
        height: 100%;
        text-align: center;
        border-right: solid;
        border-top: solid;
        border-bottom: solid;
        border-left: solid;
    }
</style>
<body>
    <div class="bmi_cal">
        <form method="POST" action="/">
            <h1 style="text-align: center;">BMI Calculator</h1>
            <label>Enter Your Name</label>
            <input type="text" name="username"><br><br>

            <label>Enter Your Weight in kg</label>
            <input type="text" name="weight"><br><br>

            <label>Enter Your Weight in Height in cm</label>
            <input type="text" name="height"><br><br>

            <button type="submit" value="Submit"> Submit</button>
        </form>
    </div>

    <div>
        {% if bmi %}
            <p> Hello Dear {{name}}</p>
            <p>Your BMI is  {{bmi}}</p>
        {% endif %}
    </div>

</body>
</html>
```