

Full Stack Experiment 6

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Theory:

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Full Stack Experiment - 6

Aim: Add routes & views to the Flask application.
Create additional routes and view in the Flask application to handle different URLs and HTTP methods.

Theory: APP routing means mapping the URLs to a specific function that will handle the logic for that URL. Modern web frameworks use more meaningful URLs and to help users remember the URLs & make navigation simpler. Example: In our application, the URL ("/") is associated with the root URL. So, if our site's domain was `www.example.org` & we want to add routing to `"www.example.org/hello"`, we would use `"/hello"`. To bind a function to a URL path we use the `@app.route` decorator. In the below example, we have implemented the above routing in the flask. A view function is the code you write to respond to requests to your application. Flask uses patterns to match the incoming request URL to the view that should handle it. The view returns data that Flask turns into an outgoing response. Flask can also go the other direction and generate a URL to a view based on its name and arguments.

A view function is the code you write to respond to request to your application. Flask uses patterns to match the incoming request URL to the view that should handle it. The view returns data that Flask turns into an outgoing response. Flask can also go the other direction & generate a URL to a view based on its name and arguments.

Conclusion: A simple Flask Application with multiple routes & views has been created.

Code:

```
from flask import Flask
app = Flask(__name__)
print("Initialized the app! With a name of: ", __name__)

@app.route('/', methods=['GET']) #there is no need to specify the GET method
since it is by default called by flask anyway
@app.route('/home') #you can stack multiple routes onto one function so
multiple paths will load the same page
def home():
    print("Hey, I'm visiting the home page!")
    return ''
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
    integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfSpd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous" />
    <h1 style=margin:20>Hello,</h1>
    <p style=margin:20 >world!<p>
    <a href="/important"
    <button type="button" class="btn btn-dark btn-sm mx-
3">IMPORTANT</button>
```

```

    <a href="/mumbai"
        <button type="button" class="btn btn-dark btn-sm mx-3">Mumbai
Map</button>

    ...

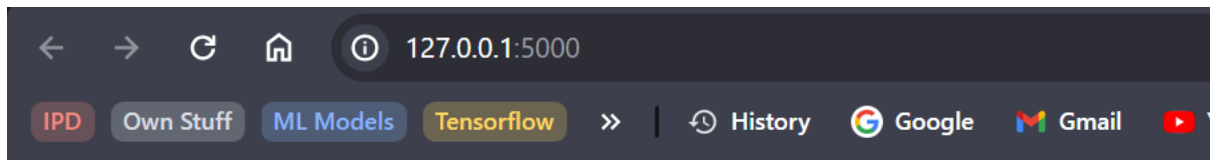
@app.route('/important')
def important():
    print("You have been rick-rolled :>")
    return '''
    <a href="https://www.youtube.com/watch?v=dQw4w9WgXcQ" target="_blank">
        <button class="btn btn-dark">VERY IMPORTANT LINK</button>
    </a>
    '''

@app.route('/aquaman')
def test():
    return '''<iframe width="560" height="315"
src="https://www.youtube.com/embed/FV3bqvOHRQo?si=90_-X-PGhWDitthC"
title="YouTube video player" frameborder="0" allow="accelerometer; autoplay;
clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share"
allowfullscreen></iframe>
'''

@app.route('/mumbai')
def mumbai():
    print("This is the map of Mumbai!")
    return '''
    <iframe
src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d2577.196784962171!2
d72.83814929293969!3d19.107817486706736!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.
1!3m3!1m2!1s0x3be7c9c676018b43%3A0x75f29a4205098f99!2sSVKM&#39;s%20Dwarkadas%2
0J.%20Sanghvi%20College%20of%20Engineering!5e0!3m2!1sen!2sin!4v1694665308205!5
m2!1sen!2sin" width="1920" height="1080" style="border:0;" allowfullscreen=""
loading="lazy" referrerpolicy="no-referrer-when-downgrade"></iframe>
    '''

```

Output:

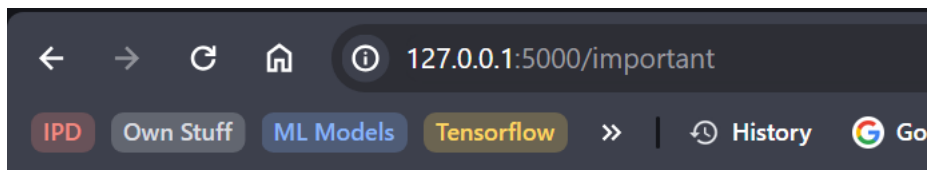


Hello,

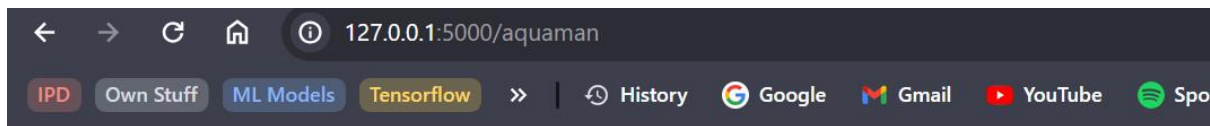
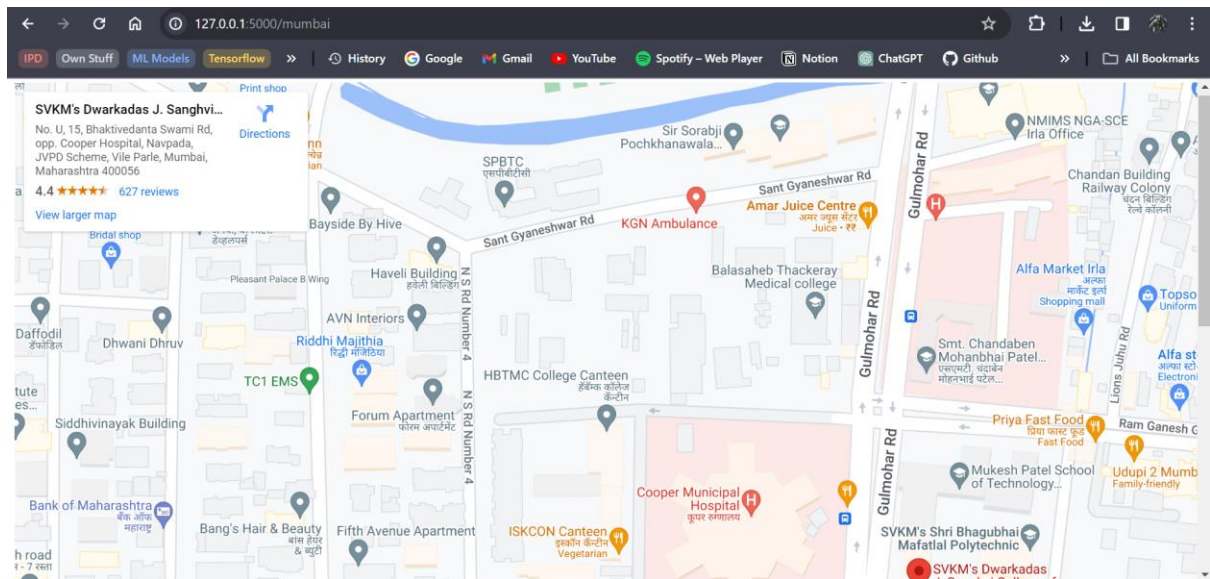
world!

IMPORTANT

Mumbai Map



VERY IMPORTANT LINK



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