Welcome to

Python Flask: Web Development Basics to Machine Learning Deployment

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URL Parameters

Flask allows the inclusion of dynamic values in URLs, which can be captured and processed in view functions.
Static URL: Always points to a fixed page, e.g., *$/about$.*
Dynamic URL: Includes placeholders for variables, e.g., *$/user/<username>$.*
Purpose:

1. Personalization (e.g., user-specific pages).
2. Pass data through URLs (e.g., order IDs).

Code Example

```python
from flask import Flask

app = Flask(__name__)

@app.route('/user/<username>')
def show_user_profile(username):
    return f"Hello, {username}!"

@app.route('/order/<int:order_id>')
def show_order(order_id):
    return f"Order ID: {order_id}"


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

```python
from flask import Flask
app = Flask(__name__)
# Static route for specific users (not dynamic)
@app.route('/user/Alice')
def alice_profile():
    return "Welcome to Alice's profile!"

# Dynamic route for general users
@app.route('/user/<username>')
def user_profile(username):
    return f"Hello, {username}!"

# Route with multiple placeholders
@app.route('/order/<int:order_id>/item/<string:item_name>')
def order_details(order_id, item_name):
    return f"Order ID: {order_id}, Item: {item_name}"

if __name__ == '__main__':
```

Thank You