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How to Save Photo and First Name to Database and Display Them on a Webpage Using Flask

Question Summary

How can I save a photo and first name to a database using Flask and then display them on a webpage?

Answer

To save a photo and first name to a database using Flask, you will need to create a form that allows users to input their information. You will also need to create a database table to store the information. Once the information is stored in the database, you can retrieve it and display it on a webpage using Flask.

Step 1: Create a Form

To create a form, you will need to use HTML and Flask's built-in form handling capabilities. Here is an example form that allows users to input their first name and upload a photo:

language-html   □ Copy code

```html
<form method="POST" enctype="multipart/form-data">
  <label for="first_name">First Name:</label>
  <input type="text" name="first_name" id="first_name">
  <br>
  <label for="photo">Photo:</label>
  <input type="file" name="photo" id="photo">
  <br>
  <input type="submit" value="Submit">
</form>
```

Step 2: Handle the Form Submission

To handle the form submission, you will need to create a Flask route that accepts POST requests. Here is an example route that saves the user's first name and photo to a database:

```language-python
from flask import Flask, request, render_template
from flask_sqlalchemy import SQLAlchemy

app = Flask(__name__)
app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///example.db'
db = SQLAlchemy(app)

class User(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    first_name = db.Column(db.String(80), nullable=False)
    photo = db.Column(db.LargeBinary, nullable=False)

@app.route('/', methods=['GET', 'POST'])
def index():
    if request.method == 'POST':
        first_name = request.form['first_name']
        photo = request.files['photo'].read()
        user = User(first_name=first_name, photo=photo)
        db.session.add(user)
        db.session.commit()
    users = User.query.all()
    return render_template('index.html', users=users)
```

Step 3: Display the Information on a Webpage

To display the information on a webpage, you will need to create an HTML template that loops through the users in the database and displays their first name and photo. Here is an example template:

```language-html
{% for user in users %}
  <h2>{{ user.first_name }}</h2>
  <img src="data:image/jpeg;base64,{{ user.photo|b64encode }}" alt="{{ user
{% endfor %}
```

This template uses the `b64encode` filter to convert the binary photo data to a base64-encoded string, which can be displayed as an image on the webpage.

And that's it! With these three steps, you can save a photo and first name to a database using Flask and display them on a webpage.

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