

Creating and Processing Web Forms with Flask

CREATING WEB FORM VIEWS AND TEMPLATES



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Overview



Case Study: Globomantics web shop

Creating views and templates

Web forms

SQLite storage

Flash messages

Flask-WTF (WTForms)



Globomantics Prototype

Create item form

Update item form

Delete item form

Filter form

Comment form



Demo



Creating base views and templates

Creating the Flask server



The Basics of Web Forms



```
<form>
```

```
<input type="text">
```

```
<input type="checkbox">
```

```
<input type="radio">
```

```
<select>
```

```
  <option value="1"></option>
```

```
  <option value="2"></option>
```

```
</select>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

◀ Form tag

◀ Text input

◀ Checkbox

◀ Radio button

◀ Select field

◀ Submit button



Form Tag Attributes

Method

Defines the HTTP method

Action

Defines where to send the form data



POST HTTP Method

Used to send data to the server
Stores data in the request body



GET HTTP Method

Appends data to the URL
Used to request data



Sign-in Form

Form

Username

mateo

Password

•••••

SUBMIT

/sign-in?name=mateo&pass=abc123



Server



Image Upload

Form

Upload Image



SUBMIT



Server



Image Upload

Form

Upload Image

iVBORw0KGgoAAAANSUhEUgAAAYAA
AAAJYCAyAAACadoJwAACAAEIEQV
R42uzdB7gcZfn3Volim+Gogu8e85J713
EkJCKKH3AKE36QLSkSp/KSq9SVEUR
EEBEZUmCAoIgvQilCBFegih99ACgSSk
kd7OOXmvwd/6juPM7mzfs+f3ua655Jy
zOzszuxOfe5/nvu8OmFmlNABDge2Ar
YB1gWFAH6Az0ALMBCYCbWBPafslaP
blMzMzMzOztIHHSOAc4FVgIbBUWysw
F5gETAEWfh62GPgAuBIYDTT5UpqZm
ZmZWtbdgWOB8Qo2MsHFEuAF4IfAls
CqwBrAN4HfKPAIP34ycLL2Z2ZmZmZ
m9j9WAK6PzHgE2/vAScDAhOc1AKsA
FwCfh54X7OdPwAhfWjMzMzMzCwuCi
79HAo+ImgkZncd+DgRmR/YR7HeQL7
GZmZmZmWX8OLKEKtjmAOfmuz+Ow
O8j+wn2e55mSszMzMzMrJ0bDrwbM/t
xE9C1gP2tDLwT2denvoliwJq+1GZmZm
Zmto8qWIUDhmnAZkXs86yYgOZ0X2o
zMzNraxp9CcxKbpCWToU9C7xcxD4fU
hATtqX6h5iZmZk5ADGz.....

SUBMIT

Please
don't!



Server



Search Box

Form

Search by name

Luna

SUBMIT

/search?name=Luna



Server



Search Box

Form



Luna Miller



Luna Rose

/search?name=Luna



Server



Standard HTTP Methods

GET

Used to request data

POST

Used to send data



Web Forms in Flask



GET method data

- `request.args`

POST method data

- `request.form`



Demo



Extracting data from the request object

Creating the form for submitting items

Allowing POST requests



Setting up SQLite for Storing Form Data



Demo



Storing user input

Application Context



Demo



Show submitted items

Create flash messages



Demo



Introducing Flask-WTF package



Summary



Case study: Globomantics web shop

HTTP Methods

- GET
- POST

Request object holds the form data

SQLite for storing user input

Application context

Flash messages

Flask-WTF package

