Springboard Flask Madlibs Solution « Back to Homepage

**Basic Version** 

Further Study

### **Flask Madlibs Solution**

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basic/app.py

### **Basic Version**

```
from flask import Flask, render_template, request
from flask_debugtoolbar import DebugToolbarExtension
from stories import story
app = Flask(__name__)
app.config['SECRET_KEY'] = "secret"
debug = DebugToolbarExtension(app)
@app.route("/")
def ask_questions():
    """Generate and show form to ask words."""
    prompts = story.prompts
    return render_template("questions.html", prompts=prompts)
@app.route("/story")
def show_story():
    """Show story result."""
    text = story.generate(request.args)
```

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```
<!doctype html>
<html>
<head>
  <title>Madlibs</title>
</head>
<body>
  <h1>Madlibs</h1>
 <form action="/story">
   {% for prompt in prompts %}
     <p>{{ prompt }}:
       <input name="{{ prompt }}">
      {% endfor %}
    <button>Submit</button>
  </form>
```

return render\_template("story.html", text=text)

### basic/templates/story.html

</body> </html>

basic/templates/questions.html

```
<!doctype html>
<html>
<head>
  <title>Madlibs</title>
</head>
<body>
 <h1>Your Story</h1>
 {{ text }}
</body>
</html>
```

## **Further Study**

```
further-study/stories.py
 """Madlibs Stories."""
 class Story:
     """Madlibs story.
     To make a story, pass a code, a title, a list of prompts,
     and the text of the template.
         >>> s = Story(
              "simple",
                "A Simple Tale",
                ["noun", "verb"],
                 "I love to {verb} a good {noun}.")
     To generate text from a story, pass in a dictionary-like thing
     of {prompt: answer, promp:answer):
         >>> ans = {"verb": "eat", "noun": "mango"}
         >>> s.generate(ans)
         'I love to eat a good mango.'
     11 11 11
     def __init__(self, code, title, words, text):
         """Create story with words and template text."""
         self.code = code
         self.title = title
         self.prompts = words
         self.template = text
     def generate(self, answers):
         """Substitute answers into text."""
         text = self.template
         for (key, val) in answers.items():
             text = text.replace("{" + key + "}", val)
         return text
 # Here's a story to get you started
 story1 = Story(
    "history",
    "A History Tale",
     ["place", "noun", "verb", "adjective", "plural_noun"],
     """Once upon a time in a long-ago {place}, there lived a
        large {adjective} {noun}. It loved to {verb} {plural_noun}."""
 story2 = Story(
     "omg",
     "An Excited Adventure",
     ["noun", "verb"],
     """OMG!! OMG!! I love to {verb} a {noun}!"""
 # Make dict of {code:story, code:story, ...}
 stories = {s.code: s for s in [story1, story2]}
```

#### from flask import Flask, render\_template, request from flask\_debugtoolbar import DebugToolbarExtension

further-study/app.py

```
from stories import stories
 app = Flask(__name__)
 app.config['SECRET_KEY'] = "secret"
 debug = DebugToolbarExtension(app)
 @app.route("/")
 def ask_story():
     """Show list-of-stories form."""
     return render_template("select-story.html",
                            stories=stories.values())
 @app.route("/questions")
 def ask_questions():
     """Generate and show form to ask words."""
     story_id = request.args["story_id"]
     story = stories[story_id]
     prompts = story.prompts
     return render_template("questions.html",
                            story_id=story_id,
                            title=story.title,
                            prompts=prompts)
 @app.route("/story")
 def show_story():
     """Show story result."""
     story_id = request.args["story_id"]
     story = stories[story_id]
     text = story.generate(request.args)
     return render_template("story.html",
                            title=story.title,
                            text=text)
further-study/templates/select-story.html
 <!doctype html>
```

#### <html> <head>

```
<title>Madlibs</title>
 </head>
 <body>
   <h1>Madlibs</h1>
   <form action="/questions">
     <select name="story_id">
       {% for story in stories %}
         <option value="{{ story.code }}">
           {{ story.title }}
         </option>
       {% endfor %}
     </select>
     <button>Go</button>
   </form>
 </body>
 </html>
further-study/templates/questions.html
 <!doctype html>
```

# <html>

```
<head>
   <title>Madlibs</title>
 </head>
 <body>
   <h1>Questions for {{ title }}</h1>
   <form action="/story">
     {% for prompt in prompts %}
       {{ prompt }}:
         <input name="{{ prompt }}">
       {% endfor %}
     <input type="hidden" name="story_id" value="{{ story_id}}">
     <button>Submit</button>
   </form>
 </body>
 </html>
further-study/templates/story.html
```

```
<!doctype html>
<html>
<head>
  <title>Madlibs</title>
</head>
<body>
 <h1>Your Version of {{ title }}</h1>
  {{ text }}
</body>
</html>
```