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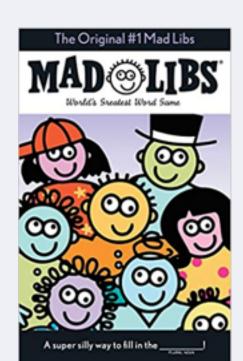
Flask Madlibs

Download our Starter Code



In this exercise, you'll use Flask to make a Madlibs game.

About Madlibs



In Madlibs, you're asked a series of questions, like this:

```
plural_noun: turnips
 verb: juggle
Those are then plugged into a story template, like this:
 I love to {verb} {plural_noun}.
To create a story like:
 I love to juggle turnips.
```

Code

We've given you some code to help with the core non-Flask-specific Madlibs part:

stories.py

```
"""Madlibs Stories."""
class Story:
    """Madlibs story.
   To make a story, pass a list of prompts, and the text
   of the template.
       >>> s = Story(["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.'
   def __init__(self, words, text):
        """Create story with words and template text."""
       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
story = Story(
   ["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}."""
```

This allows you to define Madlibs stories, and it can generate the resulting story from a set of answers. (It's also a nice example of a small but useful class!)

We've created a story, **story**, in that file.

Warning: STOP AND EXPLORE HERE

Before starting to make a Flask app, make sure you understand how this **Story** class works — go into *ipython* and try out the generate method on our sample story to get a feel for the text-generating process for Madlibs.

Challenge

Madlibs

Write a Flask app that imports the example story. Add a homepage for the application that shows a form prompting you for all the words in the story:

place: condo noun: dragon verb: eat adjective: frozen plural_noun: popsicles Submit

Don't hardcode this, though — you want your form route to be able to ask for all of the questions required by the story, not for it to have a hard-coded form of asking these exact questions!

Add a route, /story, that shows the resulting story for those answers, like this:

Your Story

Once upon a time in a long-ago condo, there lived a large frozen dragon. It loved to eat popsicles.

For now, don't worry about having template inheritance or a **base.html** — later, in further study, you can refactor this to use template inheritance.

Further Study

Use Template Inheritance

Make a **base.html** template of common parts of your templates (like the **<html>**, **<body>**, and other common things, and change your templates so they inherit from this base template.

Allow User to Pick Story

Add a feature where there are several different story templates, rather than just one.

The homepage should change to a drop-down menu of the story templates. When the user picks a template, it should go to the page that prompts for the list of story questions. That should, as before, go to the page that shows the generated story. **Add CSS**

Still want more? Add some CSS to your madlibs, storing the CSS file in a static/ directory and referencing it

properly, so Flask will serve it up.

Additional Further Study

What? More time? Add some JS to your madlibs – perhaps you can validate the form (make sure every question

is answered, all answers are at least 3 characters long, all lowercase, etc) before you're allowed to submit the form. Even more, you say??? Try to add a page to your application where uses can create their own madlibs, by providing a list of parts of speech, along with the text of the story. Submitting this form should create a new story

instance that you could then select from the dropdown of stories. Note: This will be challenging given what you know now! Consider it a super bonus. Also, because we don't yet know how to persist data, if you store you stories on the server in a list, that list will get reset every time you

Solution

View Our Solution

restart your server.