

Lab Activity – Using Flask to create a Blog App

1 Introduction

In this lab, you will create a blog app using the tools that you have been learning in the past lectures:

- Flask
- Jinja2
- Routes
- SQLAlchemy
- Objects
- Static/css
- Templates
- Project enviroment

The app that you need to create is just a simple variant of the project that we did in class (The Todo Master App).

2 Basic App Requirements

Your app shall have the following requirements:

- Your app will have three routes/endpoints: the `/`, `/blog/id`, and `/new-blog`. You must your Flask routes for them.
- You must use html templates for your pages. Those pages shall be based on a base.html file, which contains the common html code found in all your pages.
- You shall use Jinja2 whenever applicable.
- You shall save your blogs in a database. You can use any type of database, including the SQLite used in class.
- Your project shall use a project environment (env)

3 The App Views

3.1 The main page view

The main page of your application (`/`) that shall look like the one shown in Figure 1.

The details worth mentioning for this page are:

- It must have a title: **CS-1520 Blog Corner** in blue and italic (h1).
- A navigation bar with two links: Home and New Blog.
- A list of blog summaries: only the Blog title (h2, red) and author (p, black).
- When the user clicks either in the Title or Author, the specific blog detail information (including its body contents) is shown in a separated page (See Section 3.3).
- If the user clicks on the New Blog button, the new blog page is shown (See Section 3.2).

3.2 The new-blog page

A page of your application with the address (`/new-blog`) that shall look like the one shown in Figure 2.

The details worth mentioning for this page are:

- It must have a title: **CS-1520 Blog Corner** in blue and italic (h1).
- A navigation bar with two links: Home and New Blog.
- A form with input fields for blog title, body, and author.
- An **"Add Blog"** button at the bottom of the page. By clicking on this button, your application will save this new blog into the database and display the main page (`/`).
- If the user clicks on Home (top right corner of your application), the main page (`/`) is displayed.

3.3 The Blog-specific Page

A page of your application with the address (`/blog/id`) that shall look like the one shown in Figure 3.

The details worth mentioning for this page are:

- It must have a title: **CS-1520 Blog Corner** in blue and italic (h1).
- A navigation bar with two links: Home and New Blog.
- The title of the blog (h1, red, bold, italic).
- The author (h2, bold, black).
- The blog content (p, black).
- A delete blog button at the end of the blog content
- If the user clicks on the delete button, your app shall remove this blog from the database and go back to the main page.

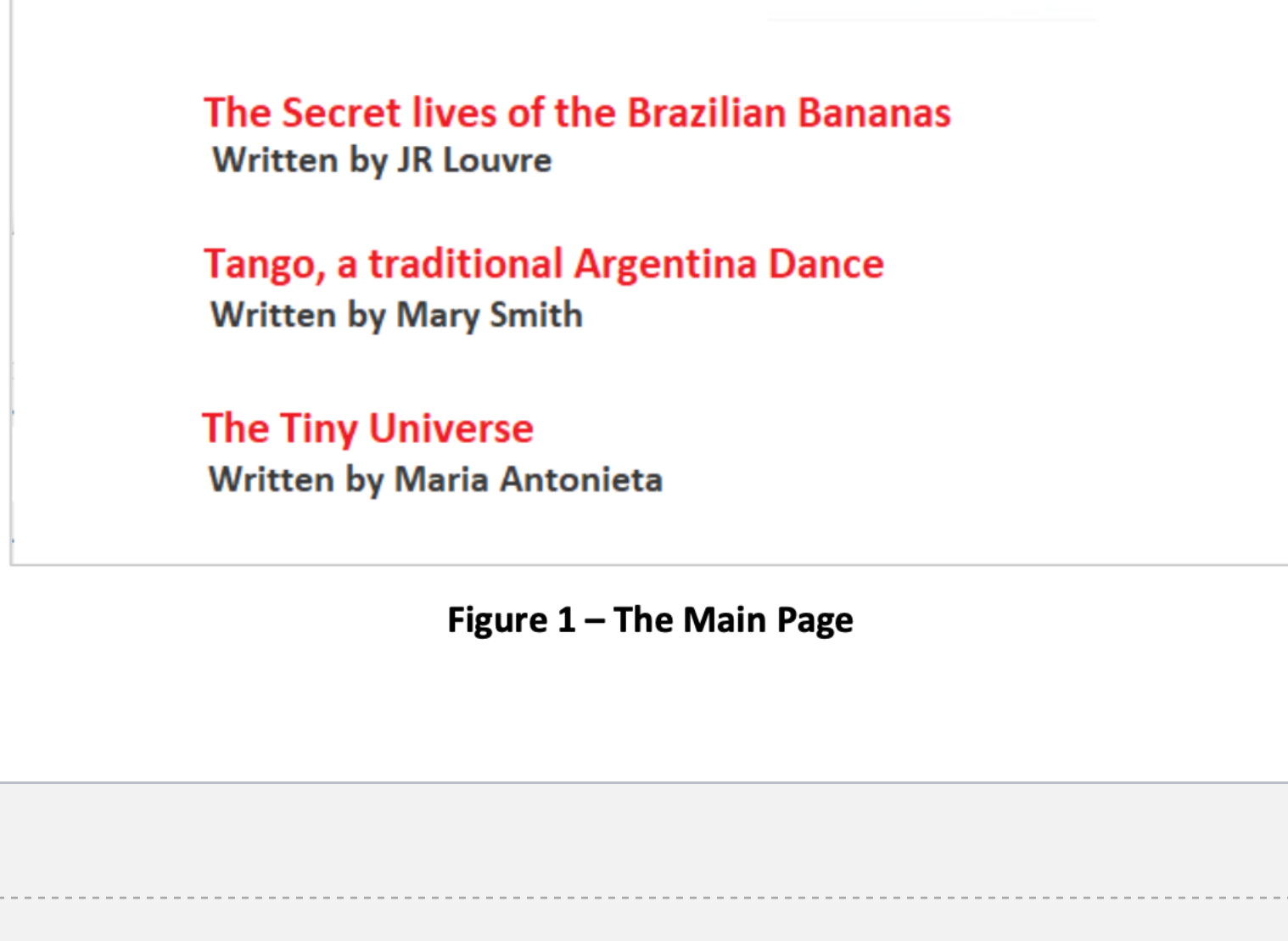


Figure 1 – The Main Page

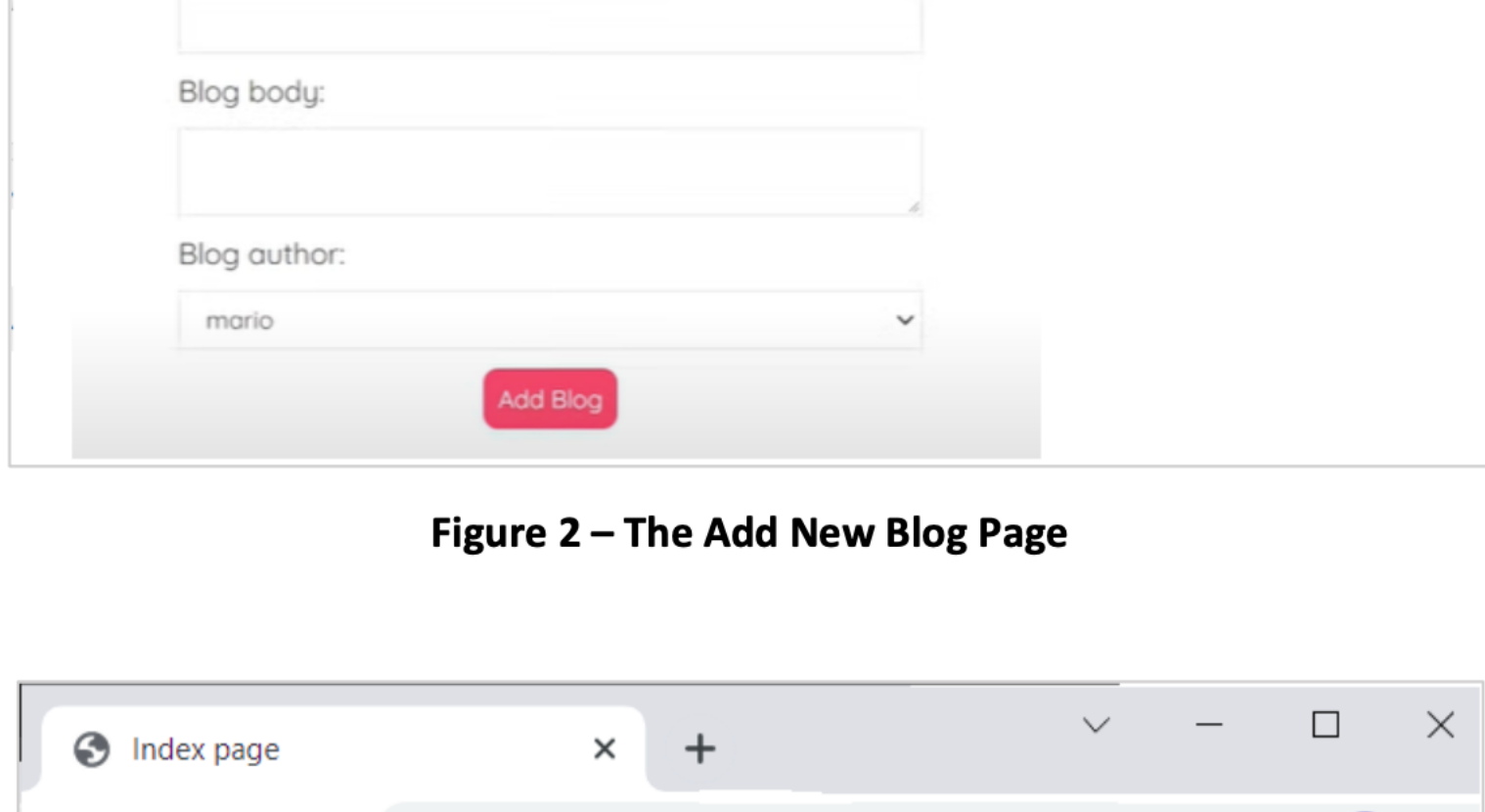


Figure 2 – The Add New Blog Page

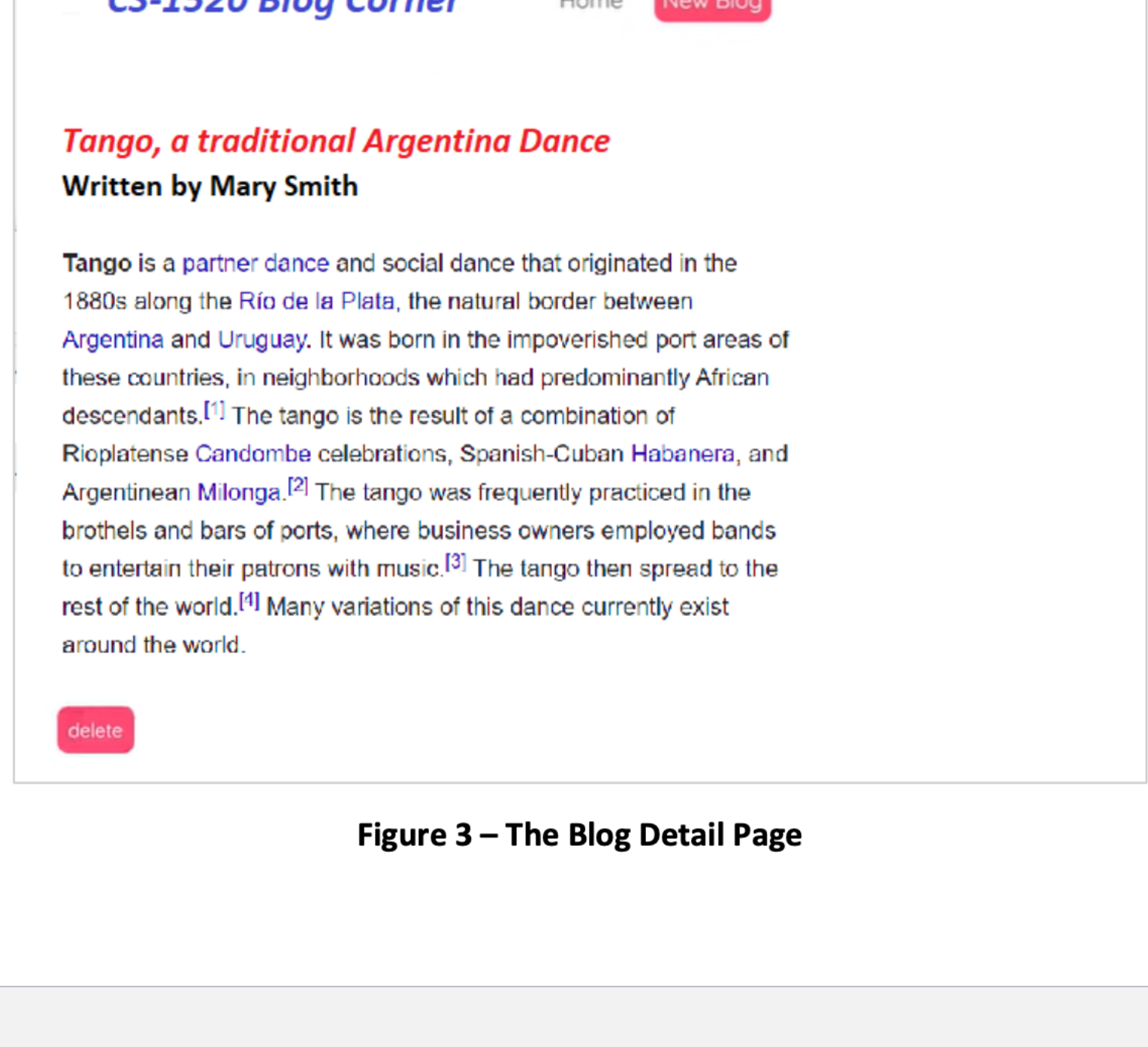


Figure 3 – The Blog Detail Page