Course Project

First Semester 2019

Assignment #2

1   Overview

In this assignment you will develop the a first working version of your web application, based on your past assignment. You will now add views for CRUD operations for all relevant models, and a proper layout for your application. You can either create stylesheets by yourself from scratch, or work based on a frontend toolkit of your choice, such as Bootstrap (`https://getbootstrap.com/`), Google Material UI (`https://www.material-ui.com`), or UIKit (`https://getuikit.com/`).

2   Goals

The specific goals of this assignment are as follows:

1. Implement navigation to all sections of your site, in ways consistent with your original wireframe prototype from assignment 1.1. For this, you must complete all pending route definitions (RESTful, named, root, etc.) in your application.

2. Properly display content for all relevant textual information resources, such as posts, the wall, and the start page of the web application. Your application must now display all textual content in ways consistent with your previous wireframe prototypes. Consider this version of your application to be a "read-only" version of the final application, as web forms that are required for user input will be implemented in later assignments.

3. Implement APIs to perform CRUD operations on `User` and `Post` resources. APIs must be strictly RESTful, thus utilizing routes automatically defined by Rails after `User` and `Post` resources have been properly defined in the `routes.rb` file. Create a collection of requests in Postman with tests for your API operations, and include in the assignment report the URL of the collection. Use the "Share Collection" feature in Postman to get the URL to your collection of test cases.

4. Implement a layout for your web application, including one or more stylesheets that provide a consistent look and feel. To facilitate this step, and give you the possibility to become familiar with current frontend toolkits and libraries, you may integrate Bootstrap, Google Material UI, UIKit or other libraries into your RoR application, and customize them as needed.

3 Site Navigation

In order to navigate your site properly, you may need to add a few resource instances so that, for example, project listings and pages are properly linkable. You should add a few resource instances in the `seeds.rb` file of your project, so that your database becomes populated with resources when deploying your project from scratch. Add navigation menus in your layout, and be cautious to always use Rails' link generators for your resources!

4 Display of Content

In each view of your application, you must incorporate all relevant textual/factual/information elements as headings, paragraphs, unordered (`<ul>` tag in HTML) or ordered lists (`<ol>`), and tables. Note that static resources such as external/user uploaded files and images shall be added in a later project assignment.

5 Layout and styles

You should integrate into your project a frontend toolkit for CSS/HTML/JS, with which to create the layout and look and feel of the user interface. You should search for the corresponding gems that are compatible with Rails 5.2 at `www.rubygems.org` (e.g. bootstrap-sass), and add these to the project's `Gemfile`. However, if you really want to develop original frontend styles all from scratch for your web application, you may do so as well.

Apply styles consistently to all pages, form elements, success/error/warning messages, tables, etc.

6 Validity of HTML and CSS

In order to ensure that HTML and CSS in your application views complies with web standards, you should use validation services provided by W3C, including the following:

- HTML validator `https://validator.w3.org/`

- CSS validator `https://jigsaw.w3.org/css-validator`

Please fix any errors that may arise, and investigate warnings, making appropriate corrections to your code whenever possible.

7 Delivery and Grading

The deadline for this assignment is set for May 7th at 23:59. You must continue work on your web application in the GitHub repository in which you submitted assignment 1.2.

Remember that you must include a `README.md` file at the root of your repository. The file must contain the following sections:

- Summary of implemented features.

- Summary of features required in the assignment but pending.

- API Tests, which should include links to your Postman collection containing tests for your APIs.

Grading will be defined based on the quality, completeness and consistency of the features that your application must include in this assignment.

8 Academy Ethics Code

During the course and for every activity, test and homework given to you, all the ethical criteria established by the Faculty of Engineering and Applied Sciences from the Universidad de los Andes, Chile will apply:

> "Any detection of copying, plagiarism, or dishonest behavior, independent from the fact itself, will be reviewed by the Faculty Council. The minimum sanction will be a 1.0 as the final grade of the course, with the possibility of escalating to the expulsion of the student from the University.
>
> Any Student surprised in an activity that calls the attention of the professors and assistants, will be punished as if he/she had committed or executed any of the dishonest behaviors. In other words, it is exclusively the responsibility of the students to behave correctly and meaningfully."