CS 4990: Ruby on Rails Web Application Development

Assignment: Resources

Requirements

- Create a new Ruby on Rails application to create, show, list, update, and destroy records for at least two different resources.
- Each resource must have at least 5 attributes and be different than the class example.
- Each resource should be RESTful, and your implementation should follow the Rails MVC architecture.

Steps

1. First, create a new Rails project by following the steps from the Ride Rails assignment.

2. Create each of your resources using the `bin/rails generate` command. Be sure to use the singular form of your resource (person, not people), and be sure to list all attributes (at least 5 per resource). Supported attribute types include string, integer, float, boolean, date, time, and datetime. Here’s an example generate command:

   ```bash
   $ bin/rails generate resource person name:string age:integer birthday:date
   ```

3. Review the list of items that were generated for each of your resources. The important items to notice are a controller, a model, a directory for views, a route definition, and a database migration. When applied to your database, the migration will create a table in your database to store the records for the resource. To apply all new migrations, run this command:

   ```bash
   $ bin/rake db:migrate
   ```

4. Take a moment to inspect the new routes that were generated for you. To see a list of all known routes for your application, run the following command. For each resource, you’ll see seven routes listed: one for each of the seven RESTful actions.

   ```bash
   $ bin/rake routes
   ```

5. Now start the Rails server in a separate tab or window in Terminal, and point your web browser to the index page for one of your resources.

   ```bash
   $ bin/rails server
   http://localhost:3000/people
   ```

6. If all is well, you should see an error about a missing action. At this point, it’s now your job to write several controller actions and view templates to do the work of creating, showing, listing, updating, and destroying records for each of your resources. Specifically, you’ll need to create `index`, `show`, `new`, `create`, `edit`, `update`, and `destroy` actions within the controller for each of your resources, and you’ll need to create `index`, `show`, `new`, and `edit` view templates for each resource as well. For the Person resource, this amounts to five files. The controllers were generated for you, but you’ll need to create the view templates.

   ```bash
   app/controllers/people_controller.rb
   app/views/people/index.html.erb
   app/views/people/show.html.erb
   app/views/people/new.html.erb
   app/views/people/edit.html.erb
   ```

Resources

- Use the example from class as a reference when writing your controller actions and view templates.
- For a list of form helpers that can be used when building your form templates, take a look at this page of
the Ruby on Rails API documentation.

- The [Ruby on Rails Guides](https://guides.rubyonrails.org/) are an excellent resource for all things Rails.

**Submission**

- Show your completed assignment to the instructor during class or office hours to receive credit.