**Purpose:** How to approach learning MVC framework and implementing your portfolio projects in Rails.

**Effort:**

Group - Set up the environment and explore Part1 and Part1a.

Individual - Answer questions on your own.

**Points:** 50

**Deliverables:**  Word document

Assignment Description

In this iteration you are going to set up Ruby on Rails in your docker image. Connect the set up of rails to the concepts you are learning about client server architecture and the MVC framework. At the end of this iteration you are expected to have a Ruby on Rails application hosted on Heroku with a root route that will allow anyone to add / edit / and remove projects from your portfolio. Remember to update your project’s Kanban.

**Part 1**

1. Read  [What is Rails?](https://guides.rubyonrails.org/v3.2/getting_started.html#what-is-rails)
2. Complete <https://github.com/debmhteach/CS3300-Iteration3/blob/main/part1.md>
3. Explore what is in your new rails directories and files in your development environment in docker before completing the next part.
   1. Controllers: app->controllers->application\_controller.rb
   2. Models: app->models->application\_record.rb
   3. View app->views/layout files
   4. Database: db->

**Part 1a**

1. [Read about scaffolding in Ruby on Rails](https://www.tutorialspoint.com/ruby-on-rails/rails-scaffolding.htm)
2. Complete <https://github.com/debmhteach/CS3300-Iteration3/blob/main/part1a.md>
3. Explore what was created using the scaffold
   1. Controllers: app->controllers->project\_controller.rb
   2. Models: app->models->project\_record.rb
   3. View app->views/layout files
   4. Database: db->schema.rb
4. Create a project in your app
5. Look at your data using the rails console. Explore how this is related to the model (active record pattern)

> [ModelName].all

> quit

1. Think about the relationship of **rails generate scaffold Projects title:string description:text** and the following files as well as what is in the database above
   1. Views -> projects new.html.erb show.html.erb and edit.html.erg
   2. controllers->projects\_controller.rb - new, show and edit
2. Put your code in your github portfolio project that contains your user stories.

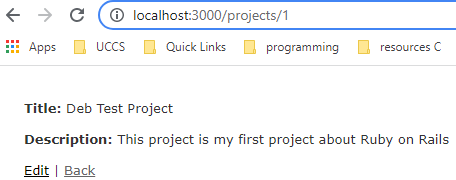
More Resources

* [Getting Started with Rails](https://guides.rubyonrails.org/v3.2/getting_started.html#getting-up-and-running-quickly-with-scaffolding)
* [The Rails Command Line — Ruby on Rails Guides](https://guides.rubyonrails.org/command_line.html)
* [Ruby on Rails - Controller](https://www.tutorialspoint.com/ruby-on-rails/rails-controllers.htm)
* [Ruby on Rails - Views](https://www.tutorialspoint.com/ruby-on-rails/rails-views.htm)
* [Ruby on Rails - Routes](https://www.tutorialspoint.com/ruby-on-rails/rails-routes.htm) and [Rails Routing from the Outside In](https://guides.rubyonrails.org/v3.2/routing.html)
* [Ruby on Rails - Active Records](https://www.tutorialspoint.com/ruby-on-rails/rails-active-records.htm) and [Active Record Basics — Ruby on Rails Guides](https://guides.rubyonrails.org/active_record_basics.html)
  + [A Guide to Active Record Associations](https://guides.rubyonrails.org/v3.2/association_basics.html)

Answer Following Questions. **When explaining, use your own words and provide your resources**. Think about this as creating project notes for you and the team. What if someone new joins the team and you must get them up to speed in setting up their environment? **You can use diagrams and screen shots as part of your explanations.**

1. (10) Share the URL to your project code in github to view your code from the instructions above. Your code should work if cloned in another docker environment. Include a screenshot of the project you created in your app.

For example



1. (5) Explain what the following command will set up for you when you run your docker environment and rails app in relation to <http://localhost/?folder=/root> and <http://localhost:3000>

**docker run -d -p 80:80 -p 3000:3000 debuccs/cs3300-code-esaas**

**rails server -b 0.0.0.0**

1. (5) Explain the relationship of your model class you created in rails and the database in terms of the active record design pattern.
2. (10) Explain your portfolio project you set up and the relationship to MVC design pattern. Include diagram(s) and examples from your set up.
3. (10)Explain show.html.erb in views and the code in projects\_controller.rb
4. (10)Review concepts discussed in lecture 11 or 12 and explain another connection with your rails set up for the project so far.