In this lecture, we will discuss…

✧ Integrating Rails with HTTParty

HTTParty Integration - Gemfile

```
   Gemfile                    ✕
 1  source 'https://rubygems.org'
 2
 3  gem 'rails', '4.2.3'
 4  gem 'sqlite3'
 5  gem 'sass-rails', '~> 5.0'
 6  gem 'uglifier', '>= 1.3.0'
 7  gem 'coffee-rails', '~> 4.1.0'
 8  gem 'jquery-rails'
 9  gem 'turbolinks'
10  gem 'jbuilder', '~> 2.0'
11  gem 'sdoc', '~> 0.4.0', group: :doc
12
13
14  group :development, :test do
15    gem 'byebug'
16    gem 'web-console', '~> 2.0'
17    gem 'spring'
18  end
19
20  gem 'httparty', '0.13.5'
```

Specify version

HTTParty Integration - Gemfile

```
Installing httparty 0.13.5
Using multi_json 1.11.2
Using jbuilder 2.3.1
Using jquery-rails 4.0.4
Using bundler 1.9.5
Using sprockets 3.2.0
Using sprockets-rails 2.3.2
Using rails 4.2.3
Using rdoc 4.2.0
Using sass 3.4.16
Using tilt 1.4.1
Using sass-rails 5.0.3
Using sdoc 0.4.1
Using spring 1.3.6
Using sqlite3 1.3.10
Using turbolinks 2.5.3
Using uglifier 2.7.1
Using web-console 2.2.1
Bundle complete! 13 Gemfile dependencies, 56 gems now installed.
Use `bundle show [gemname]` to see where a bundled gem is installed.
Post-install message from httparty:
When you HTTParty, you must party hard!
~/my_first_app$
```

bundle (or bundle install)

NEED TO RESTART THE SERVER after running bundler for changes to take effect!!

Course Listing Example

✧ Let's show Courses based on search term

✧ Generate Courses Controller   Controller   Action

✧ `rails g controller courses index`

```
~/my_first_app$ rails g controller courses index
      create  app/controllers/courses_controller.rb
       route  get 'courses/index'
      invoke  erb
      create    app/views/courses
      create    app/views/courses/index.html.erb
      invoke  test_unit
      create    test/controllers/courses_controller_test.rb
      invoke  helper
      create    app/helpers/courses_helper.rb
      invoke    test_unit
      invoke  assets
      invoke    coffee
      create      app/assets/javascripts/courses.coffee
      invoke    scss
      create      app/assets/stylesheets/courses.scss
```
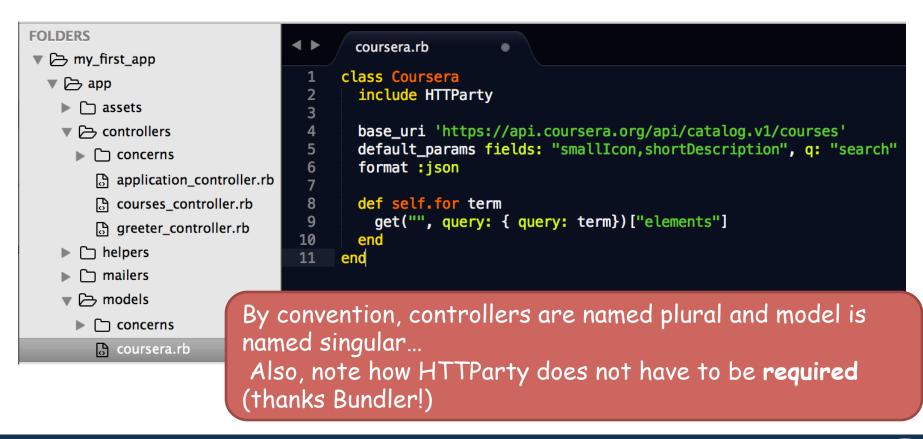
Courses Listing – `config/routes.rb`

```ruby
Rails.application.routes.draw do
  get 'courses/index'   ←

  # get 'greeter/hello'

  # SAME AS ABOVE
  get 'greeter/hello' => "greeter#hello"
  get 'greeter/goodbye'

  # You can have the root of your site routed with "root"
  # root 'welcome#index'
end
```

Coursera Model

FOLDERS

- ▼ 🗁 my_first_app
  - ▼ 🗁 app
    - ▶ 🗁 assets
    - ▼ 🗁 controllers
      - ▶ 🗁 concerns
      - 📄 application_controller.rb
      - 📄 courses_controller.rb
      - 📄 greeter_controller.rb
    - ▶ 🗁 helpers
    - ▶ 🗁 mailers
    - ▼ 🗁 models
      - ▶ 🗁 concerns
      - 📄 coursera.rb

◀ ▶   coursera.rb   ●

```ruby
1  class Coursera
2    include HTTParty
3
4    base_uri 'https://api.coursera.org/api/catalog.v1/courses'
5    default_params fields: "smallIcon,shortDescription", q: "search"
6    format :json
7
8    def self.for term
9      get("", query: { query: term})["elements"]
10   end
11 end
```

By convention, controllers are named plural and model is named singular...
 Also, note how HTTParty does not have to be **required** (thanks Bundler!)

Courses Controller

✧ Fill in `index` action

FOLDERS

- ▼ 📂 my_first_app
  - ▼ 📂 app
    - ▶ 📁 assets
    - ▼ 📂 controllers
      - ▶ 📁 concerns
      - 📄 application_controller.rb
      - 📄 courses_controller.rb

courses_controller.rb

```
1  class CoursesController < ApplicationController
2    def index
3      @search_term = 'jhu'
4      @courses = Coursera.for(@search_term)
5    end
6  end
7
8
```

Notice, how the Controller did not have to **require** Coursera…

courses/index.html.erb

FOLDERS

- ▼ 📂 my_first_app
  - ▼ 📂 app
    - ▶ 📁 assets
    - ▶ 📁 controllers
    - ▶ 📁 helpers
    - ▶ 📁 mailers
    - ▶ 📁 models
    - ▼ 📂 views
      - ▼ 📂 courses
        - 📄 index.html.erb
      - ▶ 📁 greeter
      - ▶ 📁 layouts
  - ▶ 📁 bin

index.html.erb

```erb
1  <h1>Searching for - <%= @search_term %></h1>
2
3  <table border="1">
4    <tr>
5      <th>Image</th>
6      <th>Name</th>
7      <th>Description</th>
8    </tr>
9    <% @courses.each do |course| %>
10     <tr>
11       <td><%= image_tag(course["smallIcon"])%></td>
12       <td><%= course["name"] %></td>
13       <td><%= course["shortDescription"] %></td>
14     </tr>
15   <% end %>
16 </table>
```

What Does It Look Like?

Summary

✧ By convention, Controller names are **plural** while Model names are **singular**

✧ Files under `app` directory are **automatically required**

What's Next?

✧ Making minor, but useful, improvements to our app