# HW07 instructions

Ruby On Rails Course

# Prerequisites

# Create a new branch for working on this assignment

- ✦ Please create a new branch from the HW6 branch for working on this assignment called HW7 with the following command:

- ✦ git checkout -b HW7

- ✦ continue working in your reddit_homework_03

# Assignments

# Assignment #1: Create API

# Setup API

- Add rocket_pants gem (https://github.com/Sutto/rocket_pants)

- create an ApiController (controllers/api/v1/api_controller.rb) which inherits from RocketPants::Base

- all other controllers you create will inherit from this ApiController

# Subreddits API

- create SubredditsController

- namepsace with Api::V1

- create actions and routes for:

  - INDEX, SHOW, CREATE, UPDATE, DESTROY

- URI should be /api/v1/subreddits...

- paginate the index response

# Posts API

* create PostsController

* namepsace with Api::V1

* create actions and routes for:

  * INDEX, SHOW, CREATE, UPDATE, DESTROY, UPVOTE

* URI should be /api/v1/subreddits/:subreddit_id/posts...

* paginate the index response

# Comments API

- create CommentsController

- namepsace with Api::V1

- create actions and routes for:

    - INDEX, CREATE, DESTROY

- URI should be /api/v1/posts/:post_id/comments...

- paginate the index response

# Assignment #2: Add serialisation

# Add serialisation

- add active_model_serializers gem (https://github.com/rails-api/active_model_serializers)

- create serializers:

    - SubredditSerializer

    - PostSerializer

    - CommentSerializer

    - UserSerializer

- namespace serializers with Api::V1

# SubredditSerializer

- include into SubredditSerializer:

  - id

  - name

  - description

  - excerpt

  - recent_posts (has_many)

- excerpt is short description (truncate to 140 chars)

- recent_posts is 10 most recent posts

# PostSerializer

✦ include into post serializer:

  ✦ id

  ✦ title

  ✦ content

  ✦ comments_count

  ✦ upvotes_count

  ✦ user (belongs_to)

# CommentSerializer

- include into comment serializer:

  - id

  - content

  - user (belongs_to)

# UserSerializer

- include into user serializer:

  - id

  - email

  - nickname

  - gender

  - upvotes_count

  - subreddit_ids (just name the attribute like this and you'll get an array of ids)

- gender should be human readable male/female not integers

# Assignment #3: Add authentication

# Add token

- create a migration to add token#string to user model

- add logic to generate token on user create

  - tip: use before_create callback (http://api.rubyonrails.org/classes/ActiveRecord/Callbacks.html)

  - tip: use Device.friendly_token or SecureRandom.uuid to generate token

# Authenticate user

- in ApiController create a private method authenticate! method

- in this method find the user by params[:token]

- also raise error! :unauthenticated if user is not found

- ensure this method is called before every action in your API

# Bonus Assignment: Document API

# Document API

- using RocketDocs

- https://github.com/Stankec/Rocket_Docs

# Submit your solutions

# Push to the remote repository on Github

✦ NOTE: I'm not going in depth how to do commits, please consult with already provided online resources.

✦ Once you finish each assignment create a final push to your branch:

✦ git push origin HW7

✦ You don't have to push it only once (i.e. when the whole assignment is over), you can do commits and pushes every time you make any significant progress such as finish an assignments.

# Create a pull request

- Once you have pushed your finished assignments, you will have to create a pull request from your HW7 branch to your master branch

- Go to Github and position yourself in the HW7 branch

- If you can't find a way how to go to your branch, the URL should be: https://github.com/InfinumAcademy/academy-#{name}-#{surname}/tree/HW7

- Find the little green button on the left and create a pull request - it should point from branch HW7 to master

# Reviewing your pull request

✦ if everything is good, we will merge it to the master branch and your work is done (awesome!)

✦ if we have some constructive comments about your solution, we will ask you to modify your solution and push again to the HW7 branch again (the pull request will be updated automatically with every commit pushed to the HW7 branch). After you've pushed your changes, just make a comment on Github mentioning us, ( e.g. 'Hey @#{reviewer}, I've improved my solution!' )