ActiveRecord

General Terms

- first on a collection gets, the first value
- where allows you to get a collection of objects
- Rails <5 used ActiveRecord::Base for inheritance instead of ApplicationRecord
 - ApplicationRecord is just an abstract class for ActiveRecord::Base

Creating

- Can use {model}.new to create a new in-memory object
- Can use {model}.save to save something or {model}.save! to save and throw exceptions
- Can use {mode}.create({hash}) to create a new instance and save at the same time

Updating

- Can get the instance with find or where, update in memory, then call save
- Can use the update method with a dictionary input specifying the fields and values to update
 - Earlier versions of rails (<v6) uses update_attributes method instead
- Transactional: all or none

Deleting

- Use destory to delete a record
 - Is an instance method, so you have to get the record first
- Once destroyed, you can access but not modify in-memory object
- Destroy can handle other dependencies
- delete does exist but is probably not what you want

Routing

Operation	Method	URI format
Create	POST	/resources
Read	GET	/resources/:id
Update	PUT	/resources/:id
Delete	DELETE	/resources/:id
Index	GET	/resources
(New)	GET	/resources/:id/new \
(Edit)	GET	/resources/:id/edit

Figure 1: Screenshot_2023-09-20_at_9.09.16_PM.png

• New and edit routes are forms that allow the user to interact with data

- Would not need if app were being accessed via an API
- config/routes.rb is where routes are defined
 - {http verb} '{route}' => '{controller}#{controller method}'
 - Default actions are {create, show, update, destroy, index, new, edit} respectively
 - Can also define all of the above actions with resources :{controller}
- {controller (singular)}_path({id}) gets the path to that record's route
- new_{controller (singular)}_path({id}) gets the path to that record's new route
- {controller}_path gets the path to that record's collection
- Can use \$ rails routes to get all routes
 - Have to use \$ rake routes for v5 and before

MVC Responsibilities

- Model: methods to get/manipulate data
- Controller: get data from model, make available to view
- View: display data, allow user interaction

Forms

- Form helpers are used to make variables easy to use in params hash
- Strong parameters $\hat{}$ the controller decides which form field parameters are allowed to be passed to the model for update/create
 - For security reasons
 - Use params.require({model}).permit({params to use})