Ruby on Rails 4 Cheat Sheet

Rails MVC Pattern

Models represent the objects in your application. These are tied to the tables in your database. Model names are singular — `Post`

Controllers contain functions that are mapped to routes, and handle the endpoints for our application. Controller names are plural — `PostsController`

Views define the HTML view for each endpoint in the application. View paths matches controller and function — `views/posts/index.html.erb`

App Structure

- 📂 *APP_NAME - root folder for your app*
  - 📂 app - *contains code for your app*
    - 📂 controllers
      - 📄 **posts_controller.rb**
    - 📁 helpers - *custom view helpers*
    - 📂 models
      - 📄 **post.rb**
    - 📂 views
      - 📂 layouts
        - 📄 **application.html.erb** - *root template for your app*
      - 📂 posts
        - 📄 index.html.erb - *names match controller actions*
        - 📄 show.html.erb
  - 📁 bin - *scripts to run gems*
  - 📁 config - *app configurations*
    - 📂 environments - *rails configs for each env*
      - 📄 develop.rb
      - 📄 production.rb
      - 📄 test.rb
    - 📄 application.rb
    - 📄 database.yml - *configures db connection*
    - 📄 environmment.rb
    - 📄 **routes.rb** - *defines routes for app*
  - 📂 db
    - 📁 migrate - *database migrations*
    - 📄 schema.rb - *database structure*
    - 📄 seeds.rb - *default data to load in db*
  - 📁 lib
  - 📁 log
  - 📁 public - *static files served at root url*
  - 📁 spec - *RSpec unit tests*

Common Patterns for Controllers

QUERIES

Get all records	`Post.all`
Query for record by id	`Post.find(post_id)`
Query for many records	`Post.where(state: :active)`

STRONG PARAMETERS

```
params.require(:post).permit(:title)
```

Routes

`resources :posts` generates the following routes

Method	Route	HTTP	Used For
index	/posts	GET	List
show	/post/:id	GET	Show one
new	/post/new	GET	Show form for new
create	/posts	POST	Create new
edit	/posts/:id/edit	GET	Show form for edit
update	/posts/:id	PUT	Update model
destroy	/posts/:id	DELETE	Deletes model

Command Line

Start server	`rails server`
Generate model	`rails generate model Post title:string`
List commands	`rake -T`
List routes	`rake routes`
Run migrations	`rake db:migrate`