
































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
 -  `environment.rb`
 -  **routes.rb** - defines routes for app
 -  *db*
 -  *migrate* - database migrations
 -  `schema.rb` - database structure, **look for basic model properties here**
 -  `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	<code>Post.all</code>
Query for record by id	<code>Post.find(post_id)</code>
Query for many records	<code>Post.where(state: :active)</code>

STRONG PARAMETERS

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

ROUTES

Adding resources `:posts` to the router in `config/routes.rb` generates the following routes

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

COMMAND LINE

Install dependencies	<code>bundle install</code>
List Rails commands	<code>rails help</code>
Start server	<code>rails server</code>
Generate model	<code>rails generate model Post title:string</code>
List Rake commands	<code>rake -T</code>
List routes	<code>rake routes</code>
Run migrations	<code>rake db:migrate</code>