

RAILS MVC PATTERN
































Models represent the objects in your application. These are tied to the tables in your database. Model names are singular – Post – app/models/post.rb

Controllers contain functions that are mapped to routes, and handle the endpoints for our application. Controller names are plural – PostsController – app/controllers/posts_controller.rb

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

Routes define the endpoints that our application serves. – config/routes.rb

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	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

In config/routes.rb, this generates the endpoints:

```
Rails.application.routes.draw do
  resources :posts
end
```

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

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