RDBMS-backed Resource

Capstone: Photo Tourist Web Application





In this lecture, we will discuss...

- Resources and their parts
- rails-api g scaffold and generated artifacts
- Migrate DB and inspect generated database table
- ♦ URIs and routing

rails-api g scaffold Foo name

/api/foos GET GET :id POST PUT/PATCH :id DELETE :id





index.json.jbuilder
__foo.json.jbuilder
__foo.json.jbuilder
__View

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails-api g scaffold Foo name --orm active_record
Expected string default value for '--rc'; got false (boolean)
Running via Spring preloader in process 20180
Expected string default value for '--jbuilder'; got true (boolean)
Expected boolean default value for '--resource-route'; got :api_resource_route (string)
      invoke active_record
                db/migrate/20161202053811_create_foos.rb
      create
      create
                app/models/foo.rb
      invoke
                rspec
      create
                  spec/models/foo_spec.rb
             api_resource_route
      invoke
       route
                resources :foos, except: [:new, :edit]
      invoke
              scaffold_controller
                app/controllers/foos_controller.rb
      create
      invoke
                rspec
                  spec/controllers/foos_controller_spec.rb
      create
      create
                  spec/routing/foos_routing_spec.rb
      invoke
                  rspec
      create
                    spec/requests/foos_spec.rb
                jbuilder
      invoke
                  app/views/foos
      create
                  app/views/foos/index.json.jbuilder
      create
                  app/views/foos/show.json.jbuilder
      create
                  app/views/foos/_foo.json.jbuilder
      create
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails-api g scaffold Foo name --orm active_record
Expected string default value for '--rc'; got false (boolean)
Running via Spring preloader in process 20180
Expected string default value for '--jbuilder'; got true (boolean)
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      invoke active_record
      create
                db/migrate/20161202053811_create_foos.rb
                app/models/foo.rb
      create
      invoke
                rspec
      create
                  spec/models/foo_spec.rb
      invoke api_resource_route
       route
                resources :foos, except: [:new, :edit]
      invoke scaffold_controller
      create
                app/controllers/foos_controller.rb
      invoke
                rspec
      create
                  spec/controllers/foos_controller_spec.rb
      create
                  spec/routing/foos_routing_spec.rb
      invoke
                  rspec
                    spec/requests/foos_spec.rb
      create
      invoke
                ibuilder
      create
                  app/views/foos
                  app/views/foos/index.json.jbuilder
      create
      create
                  app/views/foos/show.json.jbuilder
                  app/views/foos/_foo.json.jbuilder
      create
Jamess-MacBook-Pro:capstone_demoapp jim$ rails-api d scaffold Foo name --orm active_record
Expected string default value for '--rc'; got false (boolean)
```

```
spec/requests/foos_spec.rb
      create
      invoke
                jbuilder
      create
                  app/views/foos
      create
                  app/views/foos/index.json.jbuilder
                  app/views/foos/show.json.jbuilder
      create
                  app/views/foos/_foo.json.jbuilder
      create
Jamess-MacBook-Pro:capstone_demoapp jim$ rails-api d scaffold Foo name --orm active_record
Expected string default value for '--rc'; got false (boolean)
Running via Spring preloader in process 20206
Expected string default value for '-- jbuilder'; got true (boolean)
Expected boolean default value for '--resource-route'; got :api_resource_route (string)
      invoke active_record
                db/migrate/20161202053811_create_foos.rb
      remove
                app/models/foo.rb
      remove
      invoke
                rspec
                  spec/models/foo_spec.rb
      remove
      invoke
              api_resource_route
       route
                resources :foos, except: [:new, :edit]
      invoke
             scaffold_controller
                app/controllers/foos_controller.rb
      remove
      invoke
                rspec
                  spec/controllers/foos_controller_spec.rb
      remove
                  spec/routing/foos_routing_spec.rb
      remove
      invoke
                  rspec
                    spec/requests/foos_spec.rb
      remove
      invoke
                jbuilder
                  app/views/foos/index.json.jbuilder
      remove
                  app/views/foos/show.json.jbuilder
      remove
```

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*Jamess-MacBook-Pro:capstone_demoapp jim\$ rails-api g scaffold --help Expected string default value for '--rc'; got false (boolean)

```
# Default: rspec
Rspec options:
  [--fixture], [--no-fixture]
                                                 # Indicates when to generate fixture
  [--fixture-replacement=NAME]
                                                 # Fixture replacement to be invoked
  [--singleton], [--no-singleton]
                                                 # Supply to create a singleton controller
  [--controller-specs], [--no-controller-specs] # Generate controller specs
                                                 # Default: true
  [--view-specs], [--no-view-specs]
                                                 # Generate view specs
                                                 # Default: true
  [--helper-specs], [--no-helper-specs]
                                                 # Generate helper specs
                                                 # Default: true
  [--routing-specs], [--no-routing-specs]
                                                 # Generate routing specs
                                                 # Default: true
  [--integration-tool=NAME]
                                                 # Integration tool to be invoked
                                                 # Default: rspec
ScaffoldController options:
      [--helper], [--no-helper] # Indicates when to generate helper
  -e, [--template-engine=NAME] # Template engine to be invoked
      [--jbuilder]
                                 # Indicates when to generate jbuilder
                                 # Default: true
Asset options:
  -j, [--javascripts], [--no-javascripts]
                                                # Generate JavaScripts
                                                # Default: true
  -je, [--javascript-engine=JAVASCRIPT_ENGINE] # Engine for JavaScripts
```

Default: js

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails-api g scaffold Foo name --orm active_record --no-request-specs --
no-routing-specs --no-controller-specs
Expected string default value for '--rc'; got false (boolean)
Running via Spring preloader in process 20525
Expected string default value for '--jbuilder'; got true (boolean)
Expected boolean default value for '--resource-route'; got :api_resource_route (string)
      invoke active_record
                db/migrate/20161202054453_create_foos.rb
      create
               app/models/foo.rb
      create
      invoke
                rspec
      create
                  spec/models/foo_spec.rb
      invoke
            api_resource_route
                resources :foos, except: [:new, :edit]
       route
      invoke scaffold_controller
                app/controllers/foos_controller.rb
      create
      invoke
                rspec
      invoke
                  rspec
      invoke
                jbuilder
                  app/views/foos/index.json.jbuilder
      create
                  app/views/foos/show.json.jbuilder
      create
      create
                  app/views/foos/_foo.json.jbuilder
Jamess-MacBook-Pro:capstone_demoapp jim$
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails-api g scaffold Foo name --orm active_record --no-request-specs --
no-routing-specs --no-controller-specs
Expected string default value for '--rc'; got false (boolean)
Running via Spring preloader in process 20525
Expected string default value for '--jbuilder'; got true (boolean)
Expected boolean default value for '--resource-route'; got :api_resource_route (string)
      invoke active_record
                db/migrate/20161202054453_create_foos.rb
      create
               app/models/foo.rb
      create
      invoke
               rspec
      create
                  spec/models/foo_spec.rb
      invoke api_resource_route
                resources :foos, except: [:new, :edit]
       route
      invoke scaffold_controller
                app/controllers/foos_controller.rb
      create
      invoke
                rspec
      invoke
                  rspec
      invoke
               jbuilder
                  app/views/foos/index.json.jbuilder
      create
                  app/views/foos/show.json.jbuilder
      create
      create
                  app/views/foos/_foo.json.jbuilder
Jamess-MacBook-Pro:capstone_demoapp jim$ rm spec/models/foo_spec.rb
```

Jamess-MacBook-Pro:capstone_demoapp jim\$ rspec

```
bin/rake db:migrate RAILS_ENV=test
        from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migr
ation.rb;405:in `load_schema_if_pending!'
       from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migr
ation.rb:411:in `block in maintain_test_schema!'
        from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migr
ation.rb:642:in `suppress_messages'
        from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migr
ation.rb:416:in `method_missina'
       from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migr
ation.rb:411:in `maintain_test_schema!'
        from /Users/jim/proj/fullstack/capstone_demoapp/spec/rails_helper.rb:27:in `<top (required)>'
        from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/2.2.0/rubygems/core_ext/kernel_require.rb:54:in `require'
        from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/2.2.0/rubygems/core_ext/kernel_require.rb:54:in `require'
        from /Users/jim/proj/fullstack/capstone_demoapp/spec/requests/api_developments_spec.rb:1:in `<top (requi
red)>'
       from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configura
tion.rb:1435:in `load'
       from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configura
tion.rb:1435:in `block in load_spec_files'
        from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configura
tion.rb:1433:in `each'
        from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configura
tion.rb:1433:in 'load_spec_files'
        from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/runner.rb
```

from /Users/jim/.rbenv/versions/2.2.3/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/runner.rb

:100:in `setup'

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Jamess-MacBook-Pro:capstone_demoapp jim\$ vi db/migrate/20161202054453_create_foos.rb

```
1 lass CreateFoos < ActiveRecord::Migration
   def change
      create_table :foos do ItI
        t.string :name
6
        t.timestamps null: false
      end
   end
9 end
```

Jamess-MacBook-Pro:capstone_demoapp jim\$ rails db psql (9.5.4)
Type "help" for help.

capstone_demoapp_development=#

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails db
psql (9.5.4)
Type "help" for help.
capstone_demoapp_development=# \d
           List of relations
Schema I
           Name
                     Type
                             Owner
_____
public | foos
                     | table
                             l jim
public | schema_migrations | table
                             1 jim
(3 rows)
capstone_demoapp_development=#
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails db
psql (9.5.4)
Type "help" for help.
capstone_demoapp_development=# \d
           List of relations
                l Type
Schema I Name
                               Owner
_____
public | foos | table
                               1 jim
public | schema_migrations | table | | jim
(3 rows)
capstone_demoapp_development=# \d foos
                             Table "public.foos"
  Column
                                                   Modifiers
                   Type
id | integer
                 | not null default nextval('foos_id_seg'::regclass)
name | character varying
created_at | timestamp without time zone | not null
updated_at | timestamp without time zone | not null
Indexes:
   "foos_pkey" PRIMARY KEY, btree (id)
capstone demograph development=#
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails db
psql (9.5.4)
Type "help" for help.
capstone_demoapp_development=# \d
           List of relations
                 l Type
Schema I Name
                               Owner
-----
                               | jim
public | foos | table
public | schema_migrations | table | | jim
(3 rows)
capstone_demoapp_development=# \d foos
                             Table "public.foos"
  Column
                                                   Modifiers
                   Type
id | integer
                  | not null default nextval('foos_id_seg'::regclass)
name | character varying
created_at | timestamp without time zone | not null
updated_at | timestamp without time zone | not null
Indexes:
   "foos_pkey" PRIMARY KEY, btree (id)
```

constone demograph development=#\a

```
*Jamess-MacBook-Pro:capstone_demoapp jim$ rspec -e RDBMS -fd
Run options: include {:full_description=>/RDBMS/}
ApiDevelopments
  RDBMS-backed
    create RDBMS-backed model
    expose RDBMS-backed API resource (FAILED - 1)
Failures:
  1) ApiDevelopments RDBMS-backed expose RDBMS-backed API resource
     Failure/Error: expect(foos_path).to eq("/api/foos")
       expected: "/api/foos"
            got: "/foos"
       (compared using --)
     # ./spec/requests/api_developments_spec.rb:19:in `block (3 levels) in <top (required)>'
Finished in 0.03193 seconds (files took 1.39 seconds to load)
2 examples, 1 failure
Failed examples:
rspec ./spec/requests/api_developments_spec.rb:17 # ApiDevelopments RDBMS-backed expose RDBMS-backed API resourc
```

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Z:\proj\fullstack\capstone_demoapp>rspec -e RDBMS

```
Command Prompt
```

```
Z:\proj\fullstack\capstone demoapp>rspec -e RDBMS
C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migration.rb:392:in
check pending!': (ActiveRecord::PendingMigrationError)
Migrations are pending. To resolve this issue, run:
        bin/rake db:migrate RAILS_ENV=test
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:405:in 'load schema if pending!'
        from C:/RailsInstaller/Ruby2, 2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:411:in block in maintain_test_schema!'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:642:in suppress messages'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active record/migratio
n.rb:416:in 'method missing'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:411:in maintain test schema!
        from Z:/proj/fullstack/capstone_demoapp/spec/rails_helper.rb:27:in `<top (required)>'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/site_ruby/2.2.0/rubygems/core_ext/kernel_require.rb:55:in re
quire'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/site_ruby/2.2.0/rubygems/core_ext/kernel_require.rb:55:in `re
quire'
        from Z:/proj/fullstack/capstone_demoapp/spec/models/foo_spec.rb:1:in `<top (required)>'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configuration
.rb:1435:in load'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configuration
.rb:1435:in 'block in load spec files'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configuration
```

```
Select Command Fromus.
```

```
Z:\proj\fullstack\capstone demoapp>rspec -e RDBMS
C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migration.rb:392:in
check pending!': (ActiveRecord::PendingMigrationError)
Migrations are pending. To resolve this issue, run:
        bin/rake db:migrate RAILS_ENV=test :
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:405:in 'load schema if pending!'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:411:in block in maintain_test_schema!'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:642:in suppress messages'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:416:in 'method missing'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/activerecord-4.2.6/lib/active_record/migratio
n.rb:411:in maintain test schema!
        from Z:/proj/fullstack/capstone_demoapp/spec/rails_helper.rb:27:in `<top (required)>'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/site_ruby/2.2.0/rubygems/core_ext/kernel_require.rb:55:in re
quire'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/site_ruby/2.2.0/rubygems/core_ext/kernel_require.rb:55:in `re
quire'
        from Z:/proj/fullstack/capstone_demoapp/spec/models/foo_spec.rb:1:in `<top (required)>'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configuration
.rb:1435:in load'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configuration
.rb:1435:in 'block in load spec files'
        from C:/RailsInstaller/Ruby2.2.0/lib/ruby/gems/2.2.0/gems/rspec-core-3.5.4/lib/rspec/core/configuration
```

Command Fromot

```
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```

```
Command Frames
                                                                                               - 5
Z:\proj\fullstack\capstone_demoapp>rake db:migrate RAILS_ENV=test
-- create table(:foos)
  -> 0.0358s
== 20161202054453 CreateFoos: migrated (0.0611s) ===============================
Z:\proj\fullstack\capstone_demoapp>rspec re RDBMS
Run options: include {:full_description=>/RDBMS/}
Failures:
 1) ApiDevelopments RDBMS-backed expose RDBMS-backed API resource
    # ./spec/requests/api_developments_spec.rb:19:in block (3 levels) in <top (required)>'
Finished in 0.23437 seconds (files took 14.19 seconds to load)
Failed examples:
                                             # ApiDevelopments RDBMS-backed expose RDBMS-backed API resour
ce
```

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Jamess-MacBook-Pro:capstone_demoapp jim\$ vi app/controllers/foos_controller.rb

```
MT K who MD K hope
 1 lass FoosController < ApplicationController
     before_action :set_foo, only: [:show, :update, :destroy]
 3
     # GET /foos
    # GET /foos.json
 6
     def index
       @foos = Foo.all
       render json: @foos
10
     end
11
12
    # GET /foos/1
13
    # GET /foos/1.json
14
     def show
      render json: @foo
15
16
     end
17
18
     # POST /foos
19
    # POST /foos.json
20
     def create
21
       @foo = Foo.new(foo_params)
22
23
       if @foo.save
24
         render json: @foo, status: :created, location: @foo
25
       else
26
         render json: @foo.errors, status: :unprocessable_entity
27
       end
28
     end
29
```

```
1 class FoosController < ApplicationController
     before_action :set_foo, only: [:show, :update, :destroy]
     def index
       @foos = Foo.all
 6
       #render json: @foos
     end
 8
 9
     # GET /foos/1
     # GET /foos/1.json
10
     def show
11
12
       render json: @foo
13
     end
14
15
    # POST /foos
16
    # POST /foos.json
17
     def create
18
       @foo = Foo.new(foo_params)
19
20
       if @foo.save
21
         render json: @foo, status: :created, location: @foo
22
       else
23
         render json: @foo.errors, status: :unprocessable_entity
24
       end
25
     end
26
27
     # PATCH/PUT /foos/1
28
     # PATCH/PUT /foos/1.json
29
     def undate
```

```
1 class FoosController < ApplicationController
     before_action :set_foo, only: [:show, :update, :destroy]
 4
     def index
       @foos = Foo.all
 6
       #render json: @foos
     end
 8
 9
     def show
10
       #render json: @foo
11
     end
12
13
     def create
14
       @foo = Foo.new(foo_params)
15
16
       if @foo.save
17
         #render json: @foo, status: :created, location: @foo
18
         render :show, status: :created, location: @foo
19
       else
20
         render json: @foo.errors, status: :unprocessable_entity
21
       end
22
     end
23
24
     def update
25
       @foo = Foo.find(params[:id])
26
27
       if @foo.update(foo_params)
28
         head :no_content
29
       AZEA
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rspec -e RDBMS
Run options: include {:full_description=>/RDBMS/}
Failures:
  1) ApiDevelopments RDBMS-backed expose RDBMS-backed API resource
     Failure/Error: expect(foos_path).to eq("/api/foos")
      expected: "/api/foos"
           got: "/foos"
      (compared using ==)
     # ./spec/requests/api_developments_spec.rb:19:in `block (3 levels) in <top (required)>'
Finished in 0.03315 seconds (files took 1.42 seconds to load)
2 examples, 1 failure
Failed examples:
rspec ./spec/requests/api_developments_spec.rb:17 # ApiDevelopments RDBMS-backed expose RDBMS-backed API resourc
e
Jamess-MacBook-Pro:capstone_demoapp jim$
```

```
Prefix Verb URI Pattern Controller#Action
foos GET /foos(.:format) foos#index
POST /foos(.:format) foos#create
foo GET /foos/:id(.:format) foos#show
PATCH /foos/:id(.:format) foos#update
PUT /foos/:id(.:format) foos#update
DELETE /foos/:id(.:format) foos#destroy

PJamess-MacBook-Pro:capstone_demoapp jim$
```

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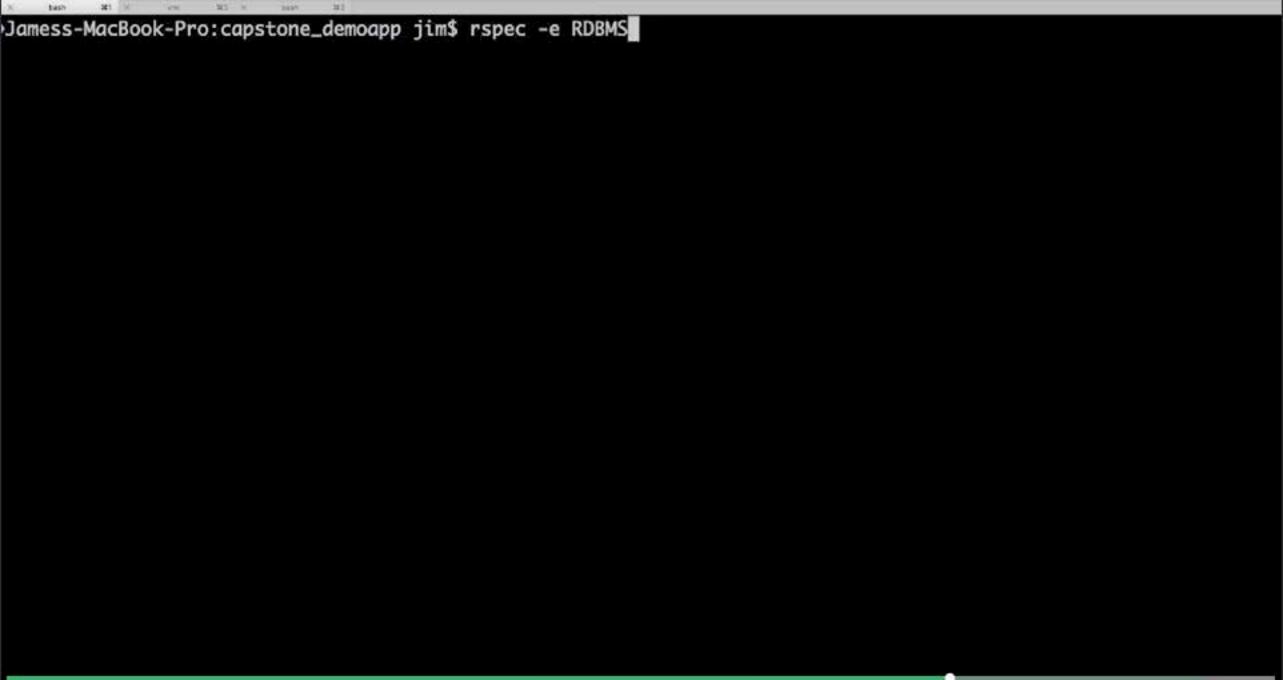
Jamess-MacBook-Pro:capstone_demoapp jim\$ vi config/routes.rb

```
1 Rails.application.routes.draw do
     resources :foos, except: [:new, :edit]
    # The priority is based upon order of creation: first created -> highest priority.
    # See how all your routes lay out with "rake routes".
 5
 6
    # You can have the root of your site routed with "root"
     # root 'welcome#index'
 8
9
     # Example of regular route:
10
         get 'products/:id' => 'catalog#view'
11
12
    # Example of named route that can be invoked with purchase_url(id: product.id)
13
         get 'products/:id/purchase' => 'catalog#purchase', as: :purchase
14
     # Example resource route (maps HTTP verbs to controller actions automatically):
15
16
         resources :products
17
18
     # Example resource route with options:
19
         resources :products do
20
           member do
21
             get 'short'
22
             post 'toggle'
23
    #
           end
24
     #
25
           collection do
26
             get 'sold'
27
           end
28
         end
29
```

1 ails.application.routes.draw do
2 resources :foos, except: [:new, :edit]
3 end

```
N 100 MS N 100 MS N 3000 MS
 1 Rails.application.routes.draw do
     scope :api do
     resources :foos, except: [:new, :edit]
     end
 5 end
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rake routes
             URI Pattern
Prefix Verb
                                      Controller#Action
  foos GET
              /api/foos(.:format)
                                     foos#index
              /api/foos(.:format)
       POST
                                     foos#create
              /api/foos/:id(.:format) foos#show
   foo GET
       PATCH
             /api/foos/:id(.:format) foos#update
              /api/foos/:id(.:format) foos#update
       PUT
       DELETE /api/foos/:id(.:format) foos#destroy
Jamess-MacBook-Pro:capstone_demoapp jim$
```



```
Jamess-MacBook-Pro:capstone_demoapp jim$ rspec -e RDBMS
Run options: include {:full_description=>/RDBMS/}
·F
Failures:
 1) ApiDevelopments RDBMS-backed expose RDBMS-backed API resource
     Failure/Error: get foo_path(object.id)
    ActionView::MissingTemplate:
      Missing template foos/show, application/show with {:locale=>[:en], :formats=>[:html], :variants=>[], :han
dlers=>[:erb, :builder, :raw, :ruby, :jbuilder]}. Searched in:
         * "/Users/jim/proj/fullstack/capstone_demoapp/app/views"
     # ./spec/requests/api_developments_spec.rb:20:in `block (3 levels) in <top (required)>'
Finished in 0.0407 seconds (files took 1.81 seconds to load)
2 examples, 1 failure
Failed examples:
rspec ./spec/requests/api_developments_spec.rb:17 # ApiDevelopments RDBMS-backed expose RDBMS-backed API resourc
Jamess-MacBook-Pro:capstone_demoapp jim$
```

Jamess-MacBook-Pro:capstone_demoapp jim\$ vi config/routes.rb

```
X 69 M X X 60 RJ X 300 RJ
 1 Rails.application.routes.draw do
2 scope :api do
        resources :foos, except: [:new, :edit]
      end
 5 end
```

```
1 Rails.application.routes.draw do
   scope :api, defaults: {format: :json} do
     resources :foos, except: [:new, :edit]
    end
5 end
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ vi config/routes.rb
Jamess-MacBook-Pro:capstone_demoapp jim$ rspec -e RDBMS
Run options: include {:full_description=>/RDBMS/}
```

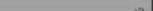
Finished in 0.04568 seconds (files took 1.77 seconds to load) 2 examples, 0 failures

Jamess-MacBook-Pro:capstone_demoapp jim\$

Jamess-MacBook-Pro:capstone_demoapp jim\$ rails c Running via Spring preloader in process 22652 Loading development environment (Rails 4.2.6) irb(main):001:0>

Jamess-MacBook-Pro:capstone_demoapp jim\$ rails s
=> Booting WEBrick
=> Rails 4.2.6 application starting in development on http://localhost:3000
=> Run `rails server -h` for more startup options

=> Ctrl-C to shutdown server



A H D B C I



← C © localhost 3000



Welcome aboard

You're riding Ruby on Rails!

About your application's environment

Getting started Here's how to get rolling:

1. Use bin/rails generate to create your models and controllers

To see all available options, run it without parameters.

2. Set up a root route to replace this page

You're seeing this page because you're running in development mode and you haven't set a root route yet.

Routes are set up in config/routes.rb.

3. Configure your database

If you're not using SQLite (the default), edit config/database.yos/ with your username and password. Browse the documentation

Rails Guides Ralls API Ruby core

Roby standard library

```
"id": 1,
    "name": "test",
    "created_at": "2016-12-02T07:16:49.308Z",
    "updated_at": "2016-12-02T07:16:49.308Z",
    "url": "http://localhost:3000/api/foos/1"
}
```

Raw

Parsed

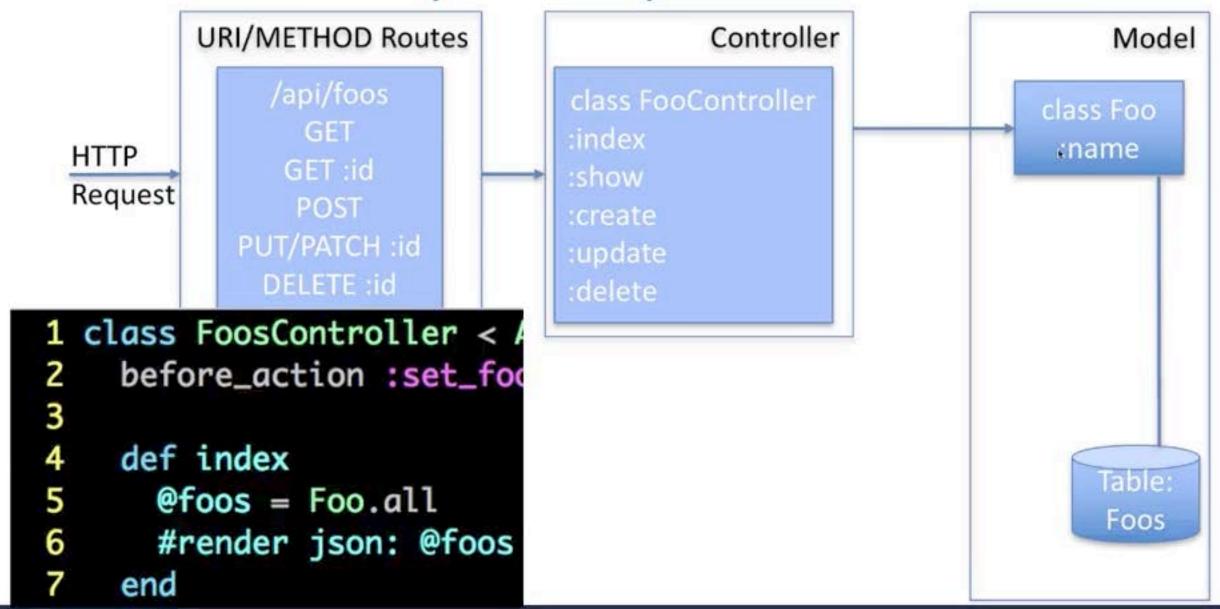
```
HTTP
Request

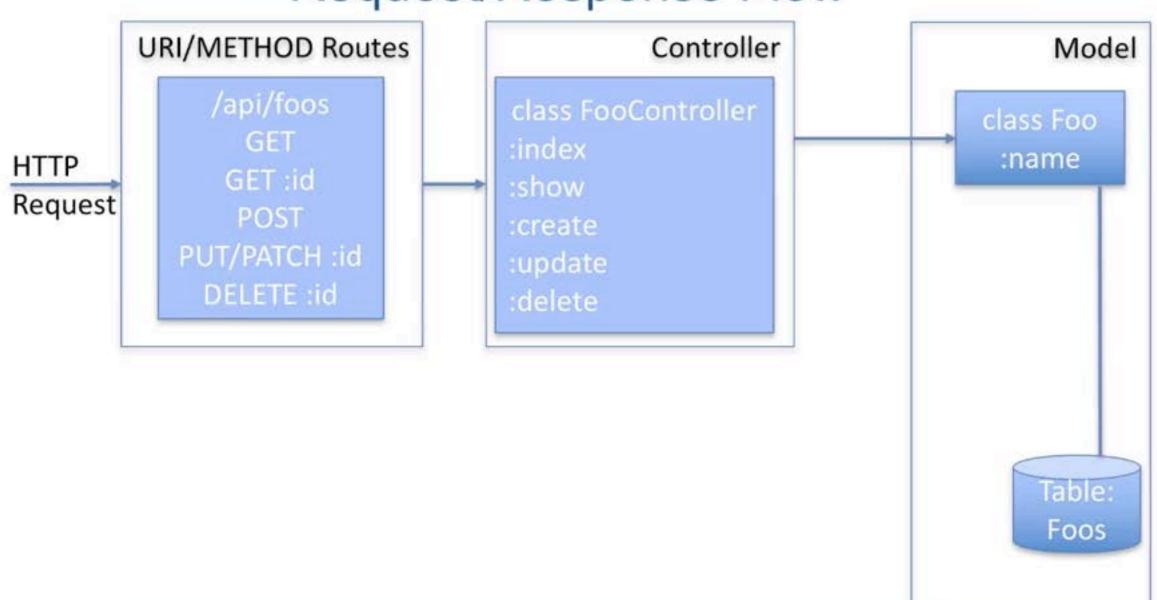
URI/METHOD Routes

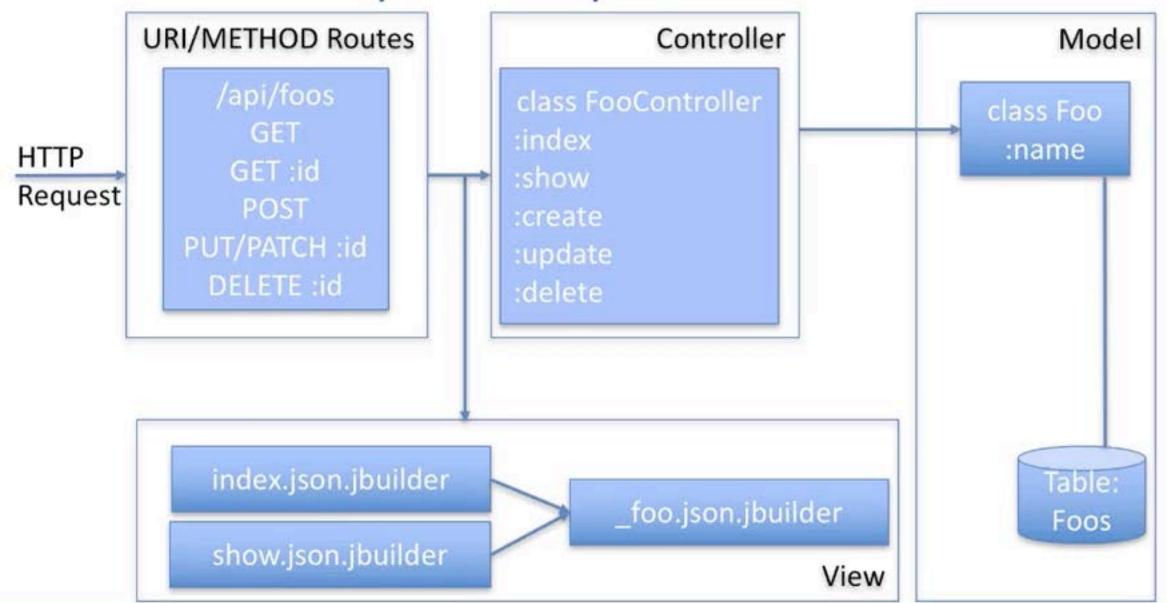
/*pi/foos
GET
GET:id
POST
PUT/PATCH:id
DELETE:id
```

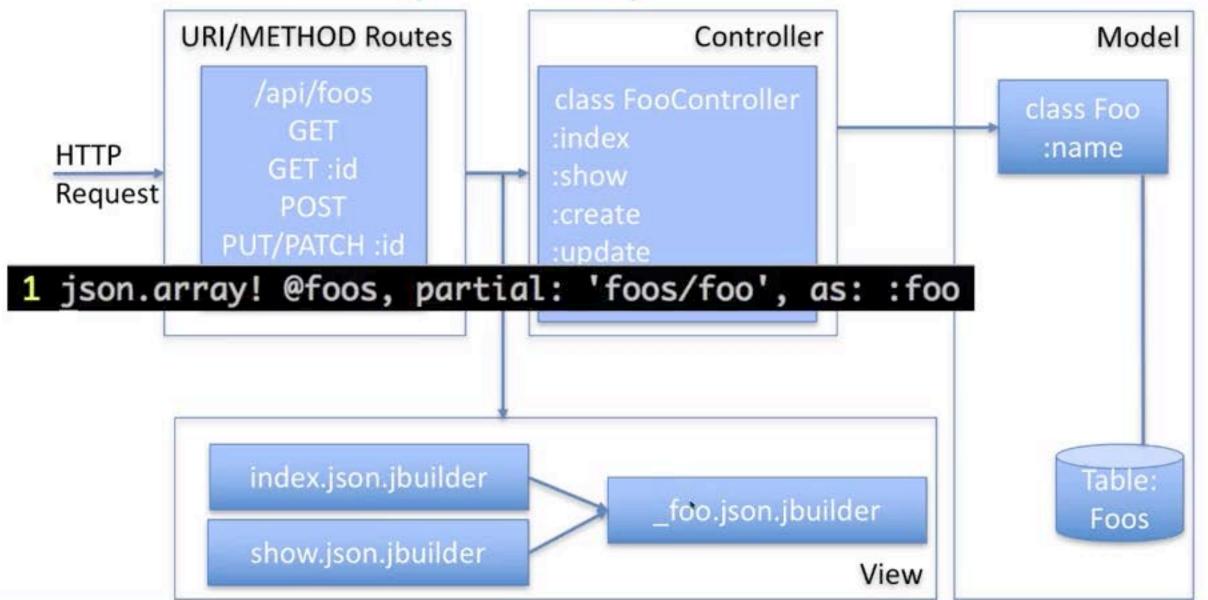
```
1 Rails.application.routes.draw do
2   scope :api, defaults: {format: :json} do
3   resources :foos, except: [:new, :edit]
4   end
5  end
```

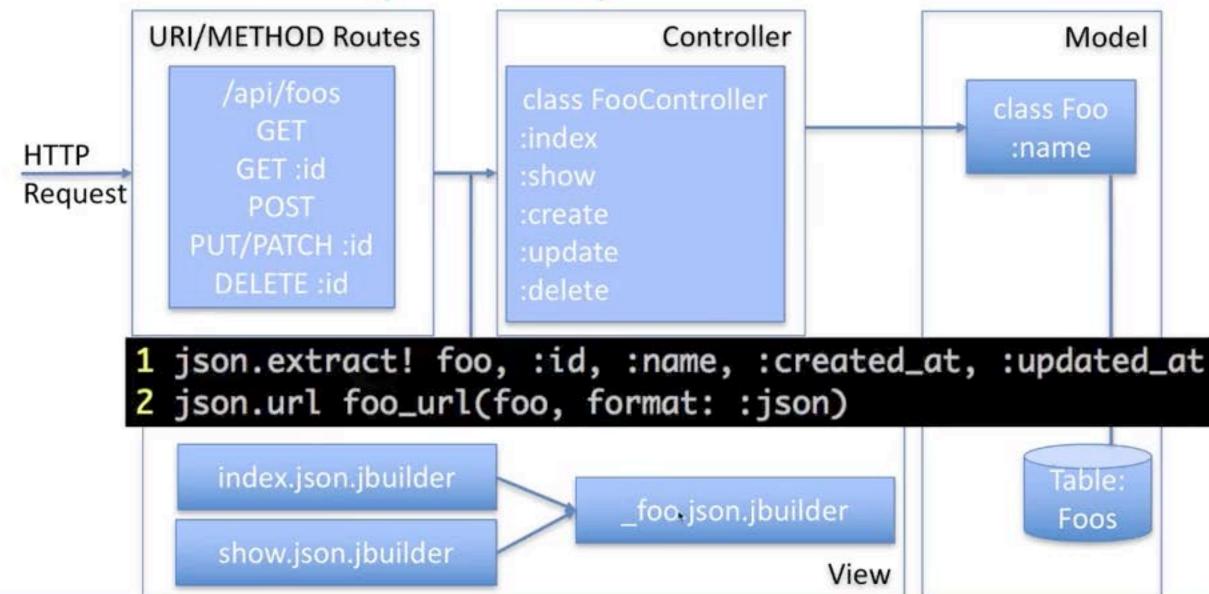
```
URI/METHOD Routes
                                           Controller
              /api/foos
                                 class FooController
                GET
                                 :index
 HTTP
               GET :id
                                 :show
 Request
                POST
                                 :create
            PUT/PATCH :id
                                 :update
             DELETE :id
                                 :delete
1 class FoosController <
    before_action :set_for
    def index
       @foos = Foo.all
6
       #render json: @foos
    end
```

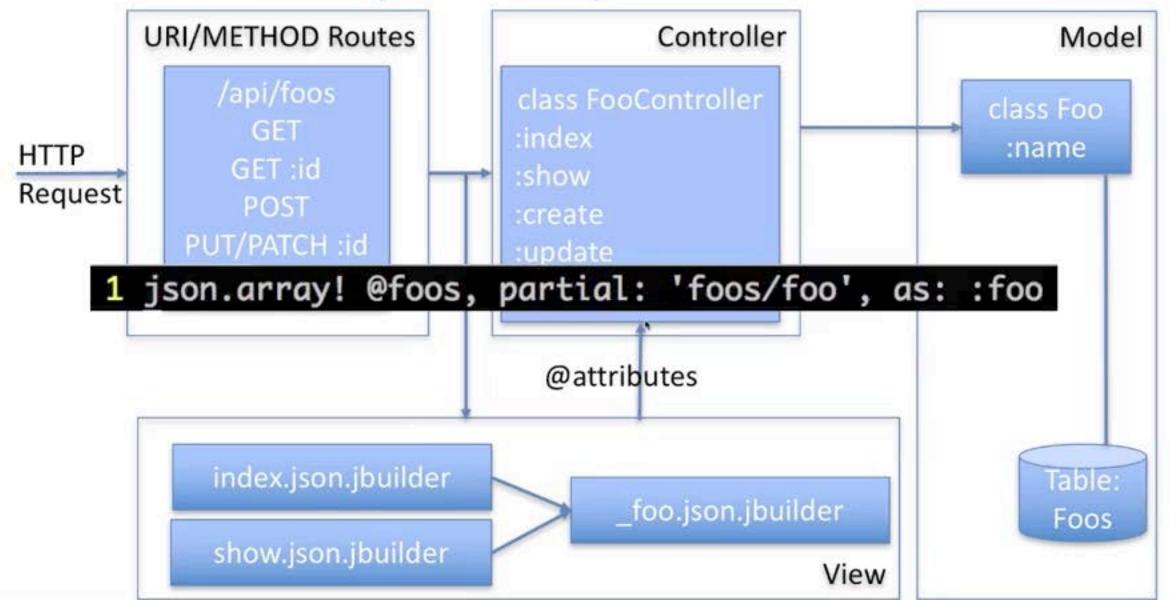


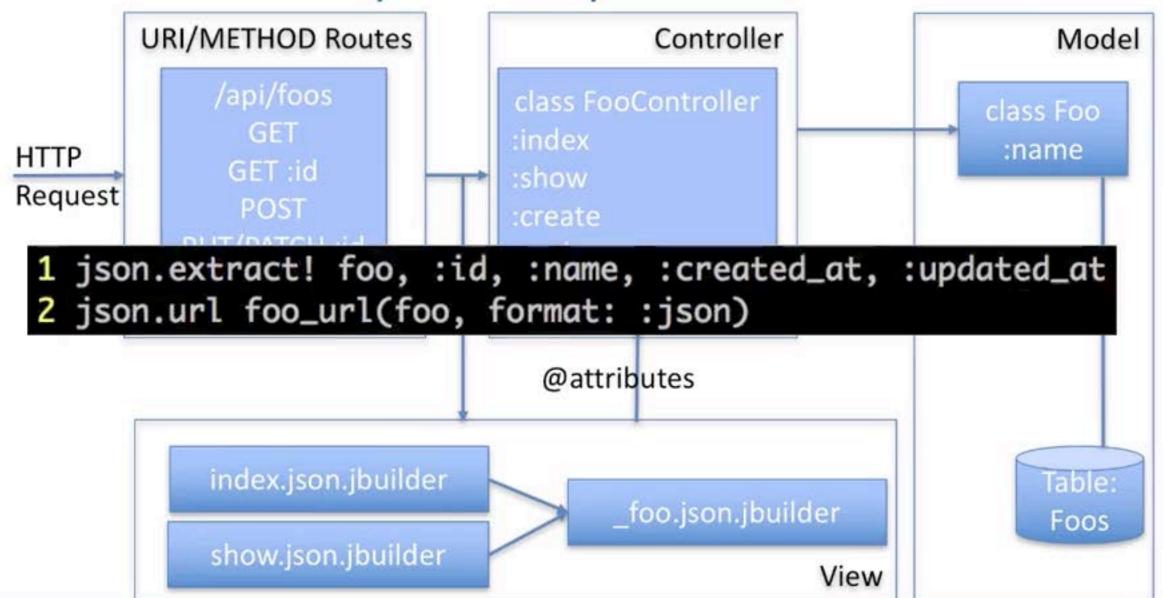


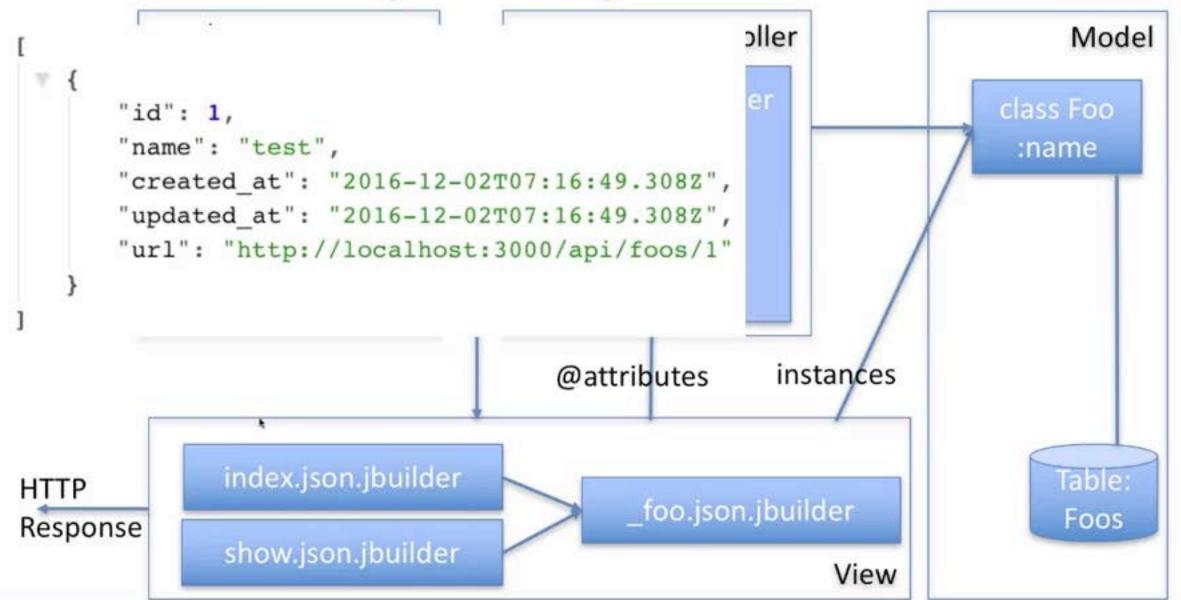












Summary

- Used scaffold generator to build skeletal resource
- Updated rails-api controller to delegate to the view
- Updated the route to scope below /api

What's Next?

♦ MongoDB-backed API Resource