



Resources

What are resources?

What are resources?

Resource routing is a way to define all of the routes that we've just created in a much easier to read and short syntax.

Why resources?

Resource routing was created because the routes and actions we've just built are **very** common.

Why resources?

So common in fact, that Rails has built their tooling to support these conventions by default.

How to

How To

Take a look at all of the routes that we've manually built so far.

```
get '/no_projects_found', to: "projects#notfound"
get '/projects', to: 'projects#index'
get '/projects/:id', to: 'projects#show'
get '/projects/new', to: 'projects#new'
post '/projects', to: 'projects#create'

get '/projects/:project_id/time_entries', to: 'time_entries#index'
get '/projects/:project_id/time_entries/new', to: 'time_entries#new'
post '/projects/:project_id/time_entries', to: 'time_entries#post', as: :project_time_entries
get '/projects/:project_id/time_entries/:id/edit', to: 'time_entries#edit'
patch '/projects/:project_id/time_entries/:id', to: 'time_entries#update',
      as: :project_time_entry
delete '/projects/:project_id/time_entries/:id', to: 'time_entries#destroy',
      as: :project_time_entry
```


How To

Big applications have a lot of routes, lots and lots of routes.

How To

We only have 2 models, with only the CRUD actions defined, yet we already have had to manually define 11 routes.

How To

Let's shorten that up a bit

How To

resources :projects

How To

That's it.

How To

Kidding, let's jump into our terminal and run rake routes to see what this creates.

```
$ rake routes
```

Prefix	Verb	URI	Controller#Action
projects	GET	/projects(.:format)	projects#index
	POST	/projects(.:format)	projects#create
new_project	GET	/projects/new(.:format)	projects#new
edit_project	GET	/projects/:id/edit(.:format)	projects#edit
project	GET	/projects/:id(.:format)	projects#show
	PATCH	/projects/:id(.:format)	projects#update
	PUT	/projects/:id(.:format)	projects#update
	DELETE	/projects/:id(.:format)	projects#destroy

How To

`Resources` simply creates all of the routes we did, with path helpers included.

How To

One problem, where are the entries?

How To

We have to create those, but those routes depend on the projects as well.

```
get '/projects/:project_id/entries', to: 'time_entries#index'
```

Nested Resources

Nested Resources

/config/routes.rb

```
resources :projects do  
  resources :time_entries  
end
```

Prefix	Verb	URI Pattern	Controller#Action
project_time_entries	GET	/projects/:project_id/time_entries(.:format)	time_entries#index
	POST	/projects/:project_id/time_entries(.:format)	time_entries#create
new_project_time_entry	GET	/projects/:project_id/time_entries/new(.:format)	time_entries#new
edit_project_time_entry	GET	/projects/:project_id/time_entries/:id/edit(.:format)	time_entries#edit
project_time_entry	GET	/projects/:project_id/time_entries/:id(.:format)	time_entries#show
	PATCH	/projects/:project_id/time_entries/:id(.:format)	time_entries#update
	PUT	/projects/:project_id/time_entries/:id(.:format)	time_entries#update
	DELETE	/projects/:project_id/time_entries/:id(.:format)	time_entries#destroy
[...]			

How To

We need to customize our routes though, we don't have an edit / update / destroy for our project, or a show for our entries.

How To

We should only create routes that we actually use, with no extras.

Nested Resources

/config/routes.rb

```
resources :projects, only: [:index, :show, :new, :create] do
  resources :time_entries
end
```


Nested Resources

/config/routes.rb

```
resources :projects, only: [:index, :show, :new, :create] do
  resources :time_entries, except: [:show]
end
```

How To

Run rake routes and check what's there now. Much better.

More Info

More Info

There's dozens of other options and ways to customize your routes. Be sure to check out the glorious [Rails Routing Guide](#) for more details.



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