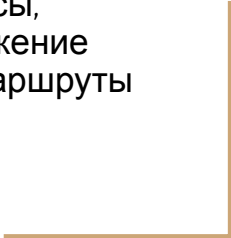




Роутинг в Rails

корневой путь, ресурсы,
пространство имен, вложение
ресурсов, произвольные маршруты



Роутинг в Rails. Корневой путь

Роутер Rails приложения помогает распознать URL и направить запрос в нужный контроллер и метод. Также, роутер создает вспомогательные методы для работы с маршрутами.

```
1 Rails.application.routes.draw do
2   root 'posts#index'
3   # root to: 'posts#index'
4
5   resources :posts
6   get :visited_posts, to: 'posts#visited_posts'
7 end
```

```
→ rails_course git:(main) x rails routes

```

	Prefix	Verb	URI Pattern
Controller#Action			
	root	GET	/
posts#index			
	posts	GET	/posts(:format)
posts#index			
		POST	/posts(:format)
posts#create			
	new_post	GET	/posts/new(:format)
posts#new			
	edit_post	GET	/posts/:id/edit(:format)

```
→ rails_course git:(main) x rails routes -E

```

--[Route 1]-----			
Prefix		root	
Verb		GET	
URI		/	
Controller#Action		posts#index	
--[Route 2]-----			
Prefix		posts	
Verb		GET	
URI		/posts(:format)	
Controller#Action		posts#index	
--[Route 3]-----			
Prefix			
Verb		POST	
URI		/posts(:format)	
Controller#Action		posts#create	
--[Route 4]-----			
Prefix		new_post	
Verb		GET	
URI		/posts/new(:format)	
Controller#Action		posts#new	
--[Route 5]-----			
Prefix		edit_post	
Verb		GET	
URI		/posts/:id/edit(:format)	
Controller#Action		posts#edit	
[Route 6]-----			

Создание ресурсных маршрутов

```
1 Rails.application.routes.draw do
2   root 'posts#index'
3
4   resources :videos, only: [:index show]
5   resources :photos, except: [:new edit create update destroy]
6
7   resources :authors do
8     resources :posts
9
10    get :visited_posts, to: 'posts#visited_posts'
11    # get :visited_posts, action: :visited_posts, controller: 'posts'
12  end
13
14  resource :account
15  resolve('Account') { [:account] }
16 end
```

Prefix	Verb	URI Pattern	Controller#Action
author_posts	GET	/authors/:author_id/posts(:format)	posts#index
	POST	/authors/:author_id/posts(:format)	posts#create
new_author_post	GET	/authors/:author_id/posts/new(:format)	posts#new
edit_author_post	GET	/authors/:author_id/posts/:id/edit(:format)	posts#edit
author_post	GET	/authors/:author_id/posts/:id(:format)	posts#show
	PATCH	/authors/:author_id/posts/:id(:format)	posts#update
	PUT	/authors/:author_id/posts/:id(:format)	posts#update
	DELETE	/authors/:author_id/posts/:id(:format)	posts#destroy
author_visited_posts	GET	/authors/:author_id/visited_posts(:format)	posts#visited_posts
authors	GET	/authors(:format)	authors#index
	POST	/authors(:format)	authors#create
new_author	GET	/authors/new(:format)	authors#new
edit_author	GET	/authors/:id/edit(:format)	authors#edit
author	GET	/authors/:id(:format)	authors#show
	PATCH	/authors/:id(:format)	authors#update
	PUT	/authors/:id(:format)	authors#update
	DELETE	/authors/:id(:format)	authors#destroy

```
→ rails_course git:(main) x rails routes -g 'photos|videos'
Prefix Verb URI Pattern Controller#Action
videos GET /videos(:format) videos#index
video GET /videos/:id(:format) videos#show
photos GET /photos(:format) photos#index
photo GET /photos/:id(:format) photos#show
```

```
→ rails_course git:(main) x rails routes -g 'account'
Prefix Verb URI Pattern Controller#Action
new_account GET /account/new(:format) accounts#new
edit_account GET /account/edit(:format) accounts#edit
account GET /account(:format) accounts#show
PATCH /account(:format) accounts#update
PUT /account(:format) accounts#update
DELETE /account(:format) accounts#destroy
POST /account(:format) accounts#create
```

Пространство имен и роутинг

```
17 namespace :api do
18   namespace :v1 do
19     resources :videos, :photos, only: %i[index show]
20   end
21 end
22
23 scope '/api/v1' do
24   resources :posts
25 end
26
27 scope module: 'api/v1' do
28   resources :customers
29 end
30 end
```

→ rails_course git:(main) x rails routes -g 'api'

	Prefix	Verb	URI Pattern	Controller#Action
api_v1_videos	GET		/api/v1/videos(.:format)	api/v1/videos#index
api_v1_video	GET		/api/v1/videos/:id(.:format)	api/v1/videos#show
api_v1_photos	GET		/api/v1/photos(.:format)	api/v1/photos#index
api_v1_photo	GET		/api/v1/photos/:id(.:format)	api/v1/photos#show

posts	GET	/api/v1/posts(.:format)	posts#index
	POST	/api/v1/posts(.:format)	posts#create
new_post	GET	/api/v1/posts/new(.:format)	posts#new
edit_post	GET	/api/v1/posts/:id/edit(.:format)	posts#edit
post	GET	/api/v1/posts/:id(.:format)	posts#show
	PATCH	/api/v1/posts/:id(.:format)	posts#update
	PUT	/api/v1/posts/:id(.:format)	posts#update
	DELETE	/api/v1/posts/:id(.:format)	posts#destroy

customers	GET	/customers(.:format)	api/v1/customers#index
	POST	/customers(.:format)	api/v1/customers#create
new_customer	GET	/customers/new(.:format)	api/v1/customers#new
edit_customer	GET	/customers/:id/edit(.:format)	api/v1/customers#edit
customer	GET	/customers/:id(.:format)	api/v1/customers#show
	PATCH	/customers/:id(.:format)	api/v1/customers#update
	PUT	/customers/:id(.:format)	api/v1/customers#update
	DELETE	/customers/:id(.:format)	api/v1/customers#destroy

Вложение ресурсов

```
7 resources :authors do
8   resources :posts, only: %i[index new create]
9 end
10
11 resources :posts, only: %i[show edit update destroy]
```

```
7 resources :authors do
8   resources :posts, shallow: true, except: :destroy
9 end
```

```
7 shallow do
8   resources :authors do
9     resources :posts
10   end
11 end
```

```
4 concern :commentable do
5   resources :comments, only: %i[index show]
6
7   post :set_comment, to: 'comments#set_comment'
8 end
9
10 resources :videos, only: %i[index show], concerns: :commentable
11 resources(
12   :photos,
13   except: %i[new edit create update destroy],
14   concerns: :commentable
15 )
```

```
→ rails_course git:(main) ✗ rails routes -g 'posts'
```

	Prefix	Verb	URI Pattern	Controller#Action
	root	GET	/	posts#index
	author_posts	GET	/authors/:author_id/posts(.:format)	posts#index
		POST	/authors/:author_id/posts(.:format)	posts#create
	new_author_post	GET	/authors/:author_id/posts/new(.:format)	posts#new
	edit_post	GET	/posts/:id/edit(.:format)	posts#edit
	post	GET	/posts/:id(.:format)	posts#show
		PATCH	/posts/:id(.:format)	posts#update
		PUT	/posts/:id(.:format)	posts#update
		DELETE	/posts/:id(.:format)	posts#destroy

```
→ rails_course git:(main) ✗ rails routes -g 'photos|videos'
```

	Prefix	Verb	URI Pattern	Controller#Action
	video_comments	GET	/videos/:video_id/comments(.:format)	comments#index
	video_comment	GET	/videos/:video_id/comments/:id(.:format)	comments#show
	video_set_comment	POST	/videos/:video_id/set_comment(.:format)	comments#set_comment
	videos	GET	/videos(.:format)	videos#index
	video	GET	/videos/:id(.:format)	videos#show
	photo_comments	GET	/photos/:photo_id/comments(.:format)	comments#index
	photo_comment	GET	/photos/:photo_id/comments/:id(.:format)	comments#show
	photo_set_comment	POST	/photos/:photo_id/set_comment(.:format)	comments#set_comment
	photos	GET	/photos(.:format)	photos#index
	photo	GET	/photos/:id(.:format)	photos#show

Дополнение маршрутов ресурса

```
33 namespace :api do
34   namespace :v1 do
35     resources :videos, only: %i[index show] do
36       get :latest_video, on: :collection
37
38       collection do
39         get :oldest_video
40         get :popular_videos
41         patch :batch_update
42       end
43     end
44   end
45 end
```

→ rails_course git:(main) x rails routes -g 'v1/videos'

	Prefix	Verb	URI Pattern	Controller#Action
latest_video_api_v1_videos	GET	/api/v1/videos/latest_video(.:format)	api/v1/videos#latest_video	
oldest_video_api_v1_videos	GET	/api/v1/videos/oldest_video(.:format)	api/v1/videos#oldest_video	
popular_videos_api_v1_videos	GET	/api/v1/videos/popular_videos(.:format)	api/v1/videos#popular_videos	
batch_update_api_v1_videos	PATCH	/api/v1/videos/batch_update(.:format)	api/v1/videos#batch_update	

```
33 namespace :api do
34   namespace :v1 do
35     resources :videos, only: %i[index show] do
36       get :likes_count # on: :member
37
38       member do
39         get :views_count
40         get :plays_count
41         patch :refresh_video
42       end
43     end
44   end
45 end
```

→ rails_course git:(main) x rails routes -g 'v1/videos'

	Prefix	Verb	URI Pattern	Controller#Action
api_v1_video_likes_count	GET	/api/v1/videos/:video_id/likes_count(.:format)	api/v1/videos#likes_count	
views_count_api_v1_video	GET	/api/v1/videos/:id/views_count(.:format)	api/v1/videos#views_count	
plays_count_api_v1_video	GET	/api/v1/videos/:id/plays_count(.:format)	api/v1/videos#plays_count	
refresh_video_api_v1_video	PATCH	/api/v1/videos/:id/refresh_video(.:format)	api/v1/videos#refresh_video	

Создание произвольных URL

```
1 Rails.application.routes.draw do
2   root 'posts#index'
3
4   resources :posts
5
6   get :visited_posts, to: 'posts#visited_posts'
7   get 'posts(/:id)', to: 'posts#display'
8
9   get 'posts/:status/:id', to: 'posts#show_by_status'
10  get 'posts/:id', to: 'photos#show', constraints: { id: /[A-Z]\d{5}/ }
11  get 'posts/*wildcard_segment/:id', to: 'posts#show'
12
13  namespace :api, defaults: { format: :json } do
14    namespace :v1 do
15      resources :photos
16    end
17  end
18
19  delete :exit, to: 'sessions#destroy', as: :log_out
20 end
```

```
resources :accounts, controller: 'api/v1/profiles', as: :users
id
```

visited_posts	GET	/visited_posts{.:format}	posts#visited_posts
	GET	/posts(/:id){.:format}	posts#display
	GET	/posts/:status/:id{.:format}	posts#show_by_status
	GET	/posts/:id{.:format}	photos#show {id=>/[A-Z]\d{5}/}
	GET	/posts/*wildcard_segment/:id{.:format}	posts#show

→ rails_course git:(main) x rails routes -g 'api'

Prefix	Verb	URI Pattern	Controller#Action
api/v1/photos	GET	/api/v1/photos{.:format}	api/v1/photos#index {format=>:json}
	POST	/api/v1/photos{.:format}	api/v1/photos#create {format=>:json}
new_api/v1_photo	GET	/api/v1/photos/new{.:format}	api/v1/photos#new {format=>:json}
edit_api/v1_photo	GET	/api/v1/photos/:id/edit{.:format}	api/v1/photos#edit {format=>:json}
api/v1_photo	GET	/api/v1/photos/:id{.:format}	api/v1/photos#show {format=>:json}
	PATCH	/api/v1/photos/:id{.:format}	api/v1/photos#update {format=>:json}
	PUT	/api/v1/photos/:id{.:format}	api/v1/photos#update {format=>:json}
	DELETE	/api/v1/photos/:id{.:format}	api/v1/photos#destroy {format=>:json}

→ rails_course git:(main) x rails routes -g 'exit'

Prefix	Verb	URI Pattern	Controller#Action
	DELETE	/exit{.:format}	sessions#destroy

→ rails_course git:(main) x rails routes -g 'accounts'

Prefix	Verb	URI Pattern	Controller#Action
users	GET	/accounts{.:format}	api/v1/users#index
	POST	/accounts{.:format}	api/v1/users#create
new_user	GET	/accounts/new{.:format}	api/v1/users#new
edit_user	GET	/accounts/:id/edit{.:format}	api/v1/users#edit
user	GET	/accounts/:id{.:format}	api/v1/users#show
	PATCH	/accounts/:id{.:format}	api/v1/users#update
	PUT	/accounts/:id{.:format}	api/v1/users#update
	DELETE	/accounts/:id{.:format}	api/v1/users#destroy

Полезные ссылки

<http://rusrails.ru/routing> – Обзор роутинга в Ruby on Rails;

<https://restfulapi.net> – Описание RESTful принципов.

Конец! Спасибо!