

Quiz 3 - Rails

Full name

Q1 - How do you create a Rails app?

1 →

Q2 - How do you start coding a Rails project? Give the right sequence.

1. Coding the views?
2. Coding the controllers?
3. Coding the models?

Q3 - How do you generate a `Song` model with a `title` and a `year`?

1 →

What are the 2 created files?

What is the **rails** command you should type then?

1 →

Q4 - How do you add a `category` (ex: "rock", "electro", etc..) to your songs table using the correct Rails generator?

1 →

What is the created file?

What is the **rails** command you should type again?

1 →

Q5 - Add a validation on the presence of a song title & crash-test your model in the console

```
1 # models/song.rb
2 class Song < ApplicationRecord
3   # Add the validation
4
5 end
```

Now crash-test your model:

```
1 → rails c
2 pry>
3 pry>
4 pry>
5 pry>
6 pry>
7 pry>
```

Q6 - What is the Rails flow you need to follow again and again? Give the correct order.

1. The Router is routing the HTTP request to "controller#action".
2. The action is getting data from models.
3. Everything starts with an HTTP Request.
4. The action is rendering the view.

Q7 - What are the **4 different parts** inside an HTTP request?

- 1.
- 2.
- 3.
- 4.

Q8 - Are the HTTP requests in the following 2 routes the same? Why?

```
1 # config/routes.rb
2 get "/songs" => "songs#index"
3 post "/songs" => "songs#create"
```

Q9 - What's the difference between a **GET** and a **POST** request?

Q10 - Complete the controller code using the correct `params` key?

HTTP request:

```
GET /search?query=thriller
```

Routing:

```
1 # config/routes.rb
2 get "/search" => "songs#search"
```

Controller:

```
1 class SongsController < ApplicationController
2   def search
3     # TODO
4     @songs =
5   end
6 end
```

Q11 - Complete the controller code using the correct `params` key?

HTTP request:

```
GET /songs/named/thriller
```

Routing:

```
1 # config/routes.rb
2 get "/songs/named/:name" => "songs#search"
```

Controller:

```
1 class SongsController < ApplicationController
2   def search
3     # TODO
4     @songs =
5   end
6 end
```

Q12 - What are the 7 CRUD routes generated by the `resources` method in Rails?

```
1 # config/routes.rb
2 # TODO: Give us the details of the 7 routes generated with:
3 resources :songs
4 # HINT: HTTP-verb "url" => "controller#action"
5
6
7
8
9
10
11
```

Q13 - How do you print your routes and their URL prefix helpers?

```
1 →
```

Q14 - How do you generate a controller for your songs?

```
1 →
```

Q15 - Implement the **Read** actions in your songs controller?

```
1 class SongsController < ApplicationController
2
3
4
5
6
7
8
9 end
```

Q16 - What are the 2 requests needed to create a new song? Implement the `songs#new` and `songs#create` actions.

```
1 class SongsController < ApplicationController
2   def new
3
4   end
5
6   def create
7
8
9
10
11
12
13 end
14
15 private
16
17 def song_params
18
19 end
20 end
```

Q17 - Why do we have to filter parameters using "strong params" in the controller?

Q18 - **Hard question:** What is the HTML generated?

Imagine that:

```
1 @song = Song.new
```

Now what is the HTML code generated by:

```
1 <%= form_for @song do |f| %>
2   <%= f.text_field :title %>
3   <%= f.submit %>
4 <% end %>
```

Fill the blanks:

```
1 <form action="          " method="post">
2   <input type="text" name="          " value="          ">
3   <input type="submit" value="Create song">
4 </form>
```

Q19 - **Hard question:** What is the HTML generated?

Imagine that:

```
1 @song # => <#Song: id: 18, title: "Hey jude", year: 1968, category: "rock">
```

Now what is the HTML code generated by:

```
1 <%= form_for @song do |f| %>
2   <%= f.text_field :title %>
3   <%= f.submit %>
4 <% end %>
```

Fill the blanks:

```
1 <form action="          " method="patch">
2   <input type="text" name="          " value="          ">
3   <input type="submit" value="Update song">
4 </form>
```

Adding a 2nd model

Q20 - Now you want to add reviews to your app. Here are some constraints:

- We don't want our visitors to destroy or update reviews, just to create ones.
- We don't want a separate index page to list all reviews or a show page to display each review. Instead, we want to display reviews on the show page of each song, for better UX.

Step #1: Model

Generate your `Review` model in the terminal. It should have only a `content:string` and a `song:references` (= the foreign key).

```
1 →
```

Run the migration

```
1 →
```

Add validation/associations

- Add a validation for the presence of a content
- Add associations between `Review` and `Song`

```
1 class Song < ApplicationRecord
2
3 end
```

```
1 class Review < ApplicationRecord
2
3
4 end
```

Step #2: Routing/Controller

Generate the reviews controller

```
1 →
```

Add the **necessary** routes (don't forget **we don't want the 7 CRUD actions for reviews**)

```
1 # config/routes.rb
2 resources :songs do
3   # TODO
4
5 end
```

Now code your controller:

```
1 class ReviewsController < ApplicationController
2   before_action :set_song
3
4   def new
5
6   end
7
8   def create
9
10
11
12
13
14 end
15
16 private
17
18 def set_song
19   @song = Song.find(params[:song_id])
20 end
21
22 def review_params
23   params.require(:review).permit(:content)
24 end
25 end
```

Step #3: Views

Add a song's reviews on its show page:

```
1 <h1><%= @song.title %></h1>
2 <p><%= @song.year %></p>
3 <p><%= @song.category %></p>
4 <h2>Here are the reviews for this song:</h2>
5
6
7
8
```