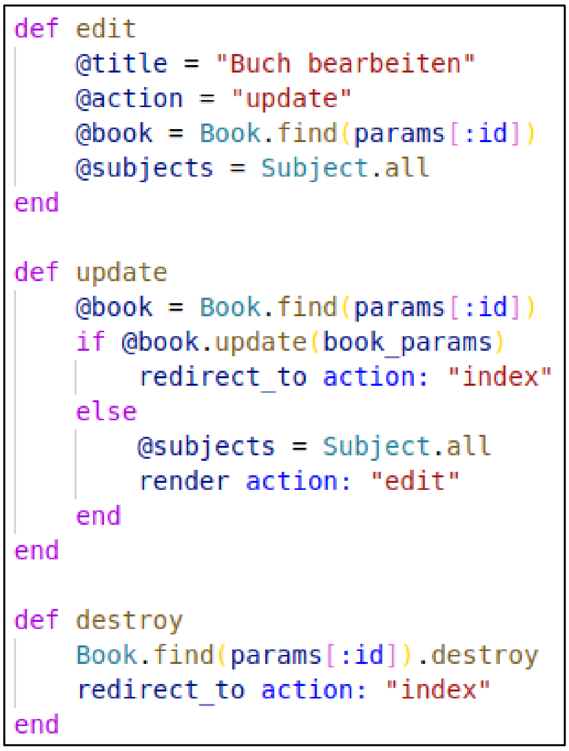
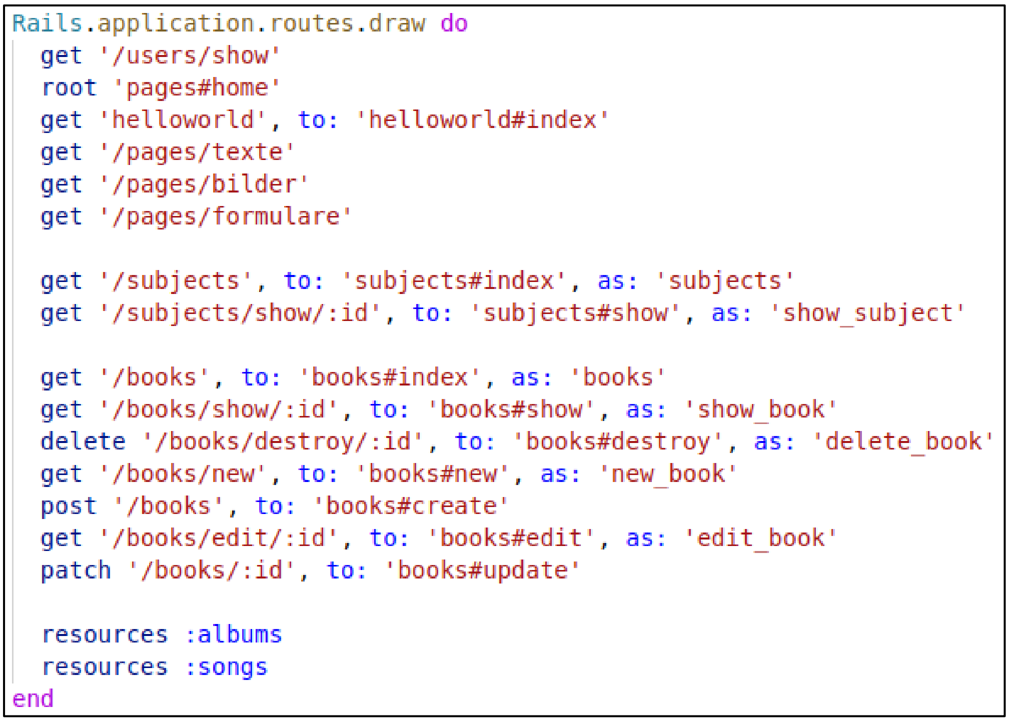
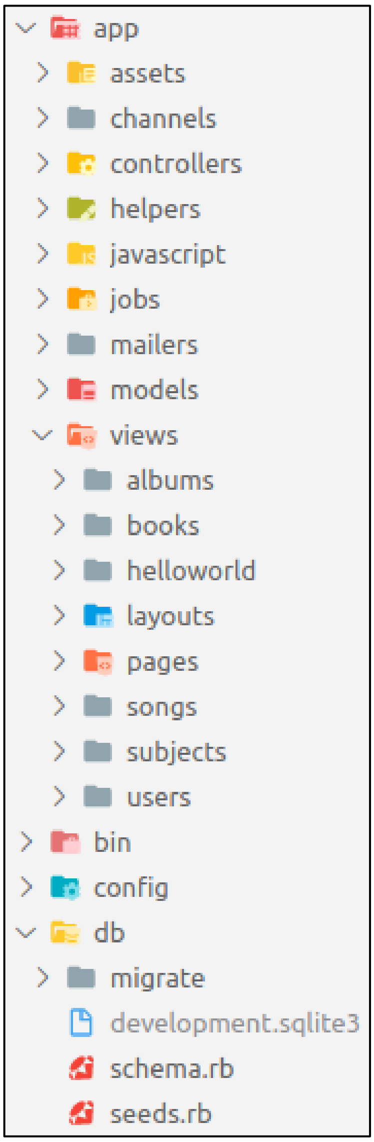
| |
|---|
| rails new myapp |
| rails server |
| rails generate controller books index |
| rails generate model Book |
| rails db:migrate<br>rails generate migration AddDescriptionToBooks |
| **rails console** |
| Book.connection |
| Book |
| Book.create(title: 'example') |
| Book.first |
| Book.last |
| Book.find(1) |
| Book.find_by_title('example') |
| Book.all |
| Book.select(:title) |
| Book.where(title: 'example')<br>b = Book.new |
| b = Book.where(title: 'example') |
| b.title = 'other example' |
| b.save |
| Book.last.destroy |



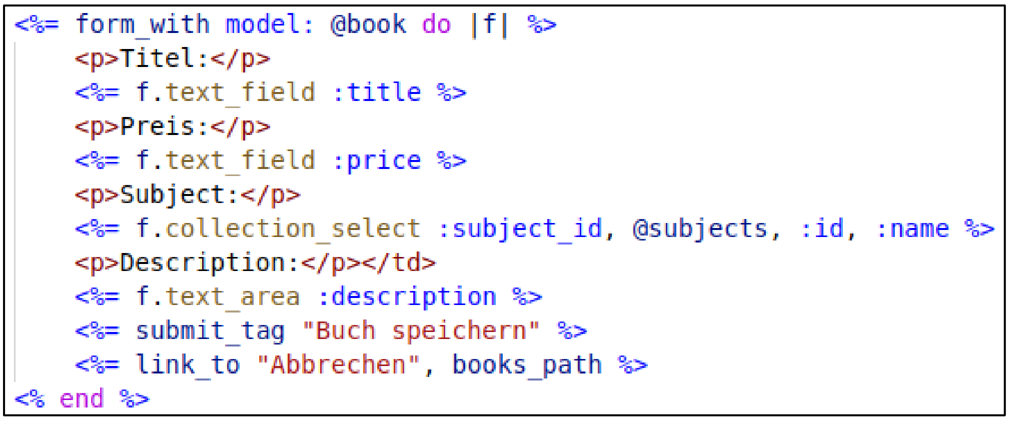
```ruby
def edit
    @title = "Buch bearbeiten"
    @action = "update"
    @book = Book.find(params[:id])
    @subjects = Subject.all
end

def update
    @book = Book.find(params[:id])
    if @book.update(book_params)
        redirect_to action: "index"
    else
        @subjects = Subject.all
        render action: "edit"
    end
end

def destroy
    Book.find(params[:id]).destroy
    redirect_to action: "index"
end
```



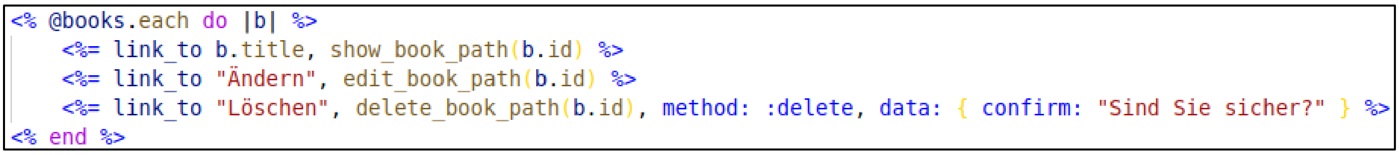
```ruby
Rails.application.routes.draw do
  get '/users/show'
  root 'pages#home'
  get 'helloworld', to: 'helloworld#index'
  get '/pages/texte'
  get '/pages/bilder'
  get '/pages/formulare'

  get '/subjects', to: 'subjects#index', as: 'subjects'
  get '/subjects/show/:id', to: 'subjects#show', as: 'show_subject'

  get '/books', to: 'books#index', as: 'books'
  get '/books/show/:id', to: 'books#show', as: 'show_book'
  delete '/books/destroy/:id', to: 'books#destroy', as: 'delete_book'
  get '/books/new', to: 'books#new', as: 'new_book'
  post '/books', to: 'books#create'
  get '/books/edit/:id', to: 'books#edit', as: 'edit_book'
  patch '/books/:id', to: 'books#update'

  resources :albums
  resources :songs
end
```



- app
  - assets
  - channels
  - controllers
  - helpers
  - javascript
  - jobs
  - mailers
  - models
  - views
    - albums
    - books
    - helloworld
    - layouts
    - pages
    - songs
    - subjects
    - users
- bin
- config
- db
  - migrate
  - development.sqlite3
  - schema.rb
  - seeds.rb



```erb
<%= form_with model: @book do |f| %>
    <p>Titel:</p>
    <%= f.text_field :title %>
    <p>Preis:</p>
    <%= f.text_field :price %>
    <p>Subject:</p>
    <%= f.collection_select :subject_id, @subjects, :id, :name %>
    <p>Description:</p></td>
    <%= f.text_area :description %>
    <%= submit_tag "Buch speichern" %>
    <%= link_to "Abbrechen", books_path %>
<% end %>
```



```erb
<% @books.each do |b| %>
    <%= link_to b.title, show_book_path(b.id) %>
    <%= link_to "Ändern", edit_book_path(b.id) %>
    <%= link_to "Löschen", delete_book_path(b.id), method: :delete, data: { confirm: "Sind Sie sicher?" } %>
<% end %>
```

| HTTP Verb | Pfad | Controller#Action | Beschreibung |
|---|---|---|---|
| GET | /albums | albums#index | Liste mit allen Alben anzeigen |
| GET | /albums/new | albums#new | HTML-Formular anzeigen zum Erfassen eines neuen Albums |
| POST | /albums | albums#create | Neues Album in die DB speichern |
| GET | /albums/:id | albums#show | Details eines Albums anzeigen |
| GET | /albums/:id/edit | albums#edit | HTML-Formular anzeigen zum Bearbeiten eines Albums |
| PATCH/PUT | /albums/:id | albums#update | Änderungen in die DB speichern |
| DELETE | /albums/:id | albums#destroy | Ein Album löschen |

```
class Subject < ApplicationRecord
  has_many :books, dependent: :restrict_with_error
end
```

```
class Book < ApplicationRecord
  belongs_to :subject
  validates_presence_of :title, message: "darf nicht leer sein"
  validates_numericality_of :price, :message => "darf nur eine Zahl sein"
end
```

```
def book_params
    params.require(:book).permit(:title, :price, :subject_id, :description)
end
```

```
def index
    @books = Book.all
end

def show
    @book = Book.find(params[:id])
end

def new
    @title = "Buch erfassen"
    @action = "create"
    @book = Book.new
    @subjects = Subject.all
    render action: "edit"
end

def create
    @book = Book.new(book_params)
    if @book.save
        redirect_to action: "index"
    else
        @subjects = Subject.all
        render action: "new"
    end
end
```

| Helper | Gibt zurück |
|---|---|
| albums_path | /albums |
| new_album_path | /albums/new |
| edit_album_path(:id) | /albums/:id/edit |
| album_path(:id) | /albums/:id |

```
class CreateBooks < ActiveRecord::Migration[6.0]
  def change
    create_table :books do |t|
      t.string :title
      t.float :price
      t.integer :subject_id
      t.timestamps
    end
  end
end
```