

ROR TECHNICAL TEST

ROR WITH *ADMINLTE*

1. Validasi Model

Starter Page

Home / Starter Page

• Email can't be blank
• Password can't be blank
• Username can't be blank
• Email can't be blank
• Email is not a valid email address

Add User

Username

Email

Password

Password Confirmation

Submit

2. Hubungan Model

```
class Book < ApplicationRecord
  validates_uniqueness_of :id
  validates :judul, uniqueness: { case_sensitive: false, message: " sudah ada, cari yang lain!!" }
  belongs_to :author

  validates :judul, presence: true
  validates :tahun_terbit, presence: true
  # validates :email, presence: true, uniqueness: true
  validates :email, format: { with: /\A[\w+\-]+\@[a-z\d\~\-\.\-]+\.[a-z]+\z/i, message: 'is not a valid email address' }
end
```

```
pretest > app > models > author.rb

1 class Author < ApplicationRecord
2   |   has_many :books
3 end
4
```

3. Controller dan View

Starter Page

Home / Starter Page

List Books

No	Judul Buku	Tahun Terbit	Email	Author	Action
1	Pemrograman Java Intermediate Level 2	October 11, 2023	caemountain1@gmail.com	Colline	Edit Add Delete
2	Pemrograman Go Fundamental	October 05, 2023	caemountain1@gmail.com	John Doe	Edit Add Delete
3	Pemrograman Golang Fundamental	October 11, 2023	caemountain1@gmail.com	Amanda	Edit Add Delete
4	Pemrograman Java Intermediate	December 28, 2020	caemountain1@gmail.com	Colline	Edit Add Delete
5	Pemrograman Java haha Fundamental	January 08, 2019	caemountain1@gmail.com	Colline	Edit Add Delete

1 2 Next Last

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4. Form Handling

Pretest RoR

Home logout

Starter Page

Home / Starter Page

Add Book

Judul

Judul Buku

Tahun Terbit

dd/mm/yyyy

Email

Email

Author

Select an author

Submit

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5. Sidekiq (setelah bersih menyimpan lalu kirim ke email menggunakan sidekiq)

Pretest RoR

Home logout

Starter Page

Home / Starter Page

Add Book

Judul

Pemrograman Java Intermediate Level 2

Tahun Terbit

11/10/2023

Email

caedab13rg@gmail.c

Author

Colline

Submit

Compose

Mail

Chat

Spaces

Meet

Inbox 1,884

Starred

Snoozed

Sent

Drafts 2

Less

Important

Scheduled

All Mail

Spam 10

Bin

Categories

NEW RELEASE BOOK

caedab13rg@gmail.com

to me

Selamat Colline

You have successfully Added Book to this app! Your Book title is: [Pemrograman Java Intermediate Level 2](#).

Thanks for joining and have a great day!

Reply Forward

6. Testing

```
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46

class BookTest < ActiveSupport::TestCase
  def setup
    @author = Author.create(name: "Eko Prasetyo")
  end

  test "validasi judul tidak boleh kosong" do
    book = Book.new(author: @author, tahun_terbit: Date.new(2023, 1, 1), email: "test@example.com")
    assert_not book.save, "Disimpan buku dengan judul kosong"
  end

  test "validasi judul harus unik (case insensitive)" do
    existing_book = Book.create!(judul: "Contoh Judul", tahun_terbit: Date.new(2023, 10, 19), author: @author, email: "test@example.com")
    book = Book.new(judul: "Contoh Judul", tahun_terbit: Date.new(2023, 10, 19), author: @author, email: "test@example.com")
    assert_not book.save, "Disimpan buku dengan judul yang sudah ada (case insensitive)"
  end

  test "validasi tahun_terbit tidak boleh kosong" do
    book = Book.new(judul: "Contoh Judul", author: @author, email: "test@example.com")
    assert_not book.save, "Disimpan buku dengan tahun_terbit kosong"
  end

  test "validasi author_id tidak boleh kosong" do
    book = Book.new(judul: "Contoh Judul", tahun_terbit: Date.new(2023, 10, 19), email: "test@example.com")
    assert_not book.save, "Disimpan buku tanpa author_id"
  end

  test "validasi email harus sesuai format" do
    book = Book.new(judul: "Contoh Judul", tahun_terbit: Date.new(2023, 10, 19), author: @author, email: "email-tidak-valid")
    assert_not book.save, "Disimpan buku dengan alamat email yang tidak valid"
  end

  test "validasi email harus valid" do
    book = Book.new(judul: "Contoh Judul", tahun_terbit: Date.new(2023, 10, 19), author: @author, email: "invalidemail@com")
    assert_not book.save, "Disimpan buku dengan alamat email yang tidak valid"
  end

  test "validasi email harus valid (2)" do
    book = Book.new(judul: "Contoh Judul", tahun_terbit: 2023, author: @author, email: "invalid.email.com")
    assert_not book.save, "Disimpan buku dengan alamat email yang tidak valid"
  end
end
```

7. Devise (login dengan role admin akan membuka semua action seperti add/update/delete sedangkan login role regular hanya bisa melihat data)

PRETESTROR

Sign in to start your session

admin@gmail.com

.....

☐ Remember Me

Log in

Pretest RoR

EKO PRASETIO

Book Management

Add Book

List Book

Author Management

List Author

User Management

Add User

List User

Home

logout

Starter Page

Signed in successfully.

admin logout

Welcome to Mini Project

Instructions

. Click Create Book and Fill out the form;

. Enter a VALID EMAIL ADDRESS, please;

Create Book

EKO PRASETIO

Book Management

List Book

Author Management

List Author

User Management

List User

Starter Page

regular logout

Welcome to Mini Project

Instructions

. Click Create Book and Fill out the form;

. Enter a VALID EMAIL ADDRESS, please;

8. Pagation
Perpage hanya dibatasi 5 data supaya muncul data pagination nya

List Books

No	Judul Buku	Tahun Terbit	Email	Author	Action
1	Pemrograman Java Intermediate Level 2	October 11, 2023	caemountain1@gmail.com	Colline	<div><div></div><div></div><div></div></div>
2	Pemrograman Go Fundamental	October 05, 2023	caemountain1@gmail.com	John Doe	<div><div></div><div></div><div></div></div>
3	Pemrograman Golang Fundamental	October 11, 2023	caemountain1@gmail.com	Amanda	<div><div></div><div></div><div></div></div>
4	Pemrograman Java Intermediate	December 28, 2020	caemountain1@gmail.com	Colline	<div><div></div><div></div><div></div></div>
5	Pemrograman Java haha Fundamental	January 08, 2019	caemountain1@gmail.com	Colline	<div><div></div><div></div><div></div></div>

1

2

Next

Last

9. API endpoint

List book dan response
dijalankan di postman

The image shows a development environment with VS Code and Postman. In VS Code, the `books_controller.rb` file is open, showing the `index` action. The code uses `per_page` and `page` parameters to paginate books and includes the `author` attribute in the JSON response.

```
1 class Api::V1::BooksController < ApplicationController
2   def index
3     per_page = params[:per_page] || 5
4     page = params[:page] || 1 # Default
5     @books = Book.includes(:author).page(page).per(per_page)
6     render json: @books, include: :author
7   end
8 end
```

In Postman, a GET request is sent to `http://localhost:3000/api/v1/books?page=1&per_page=5`. The response is a JSON array of two book objects, each with an associated author.

```
1 {
2   "id": 13,
3   "judul": "Pemrograman",
4   "tahun_terbit": "2023-10-12",
5   "author_id": 1,
6   "created_at": "2023-10-18T13:22:49.894Z",
7   "updated_at": "2023-10-18T13:22:49.894Z",
8   "email": "amandefg",
9   "author": {
10    "id": 1,
11    "name": "Colline",
12    "created_at": "2023-10-17T08:53:13.092Z",
13    "updated_at": "2023-10-17T08:53:13.092Z"
14  },
15 }
16
17 {
18   "id": 16,
19   "judul": "Pemrograman Java Intermediate",
20   "tahun_terbit": "2020-12-28",
21   "author_id": 1,
22   "created_at": "2023-10-18T14:22:54.175Z",
23   "updated_at": "2023-10-18T14:22:54.175Z",
24   "email": "caemountain1@gmail.com",
25   "author": {
```