

Introduction to



Ruby on Rails

The Speakers

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Topics

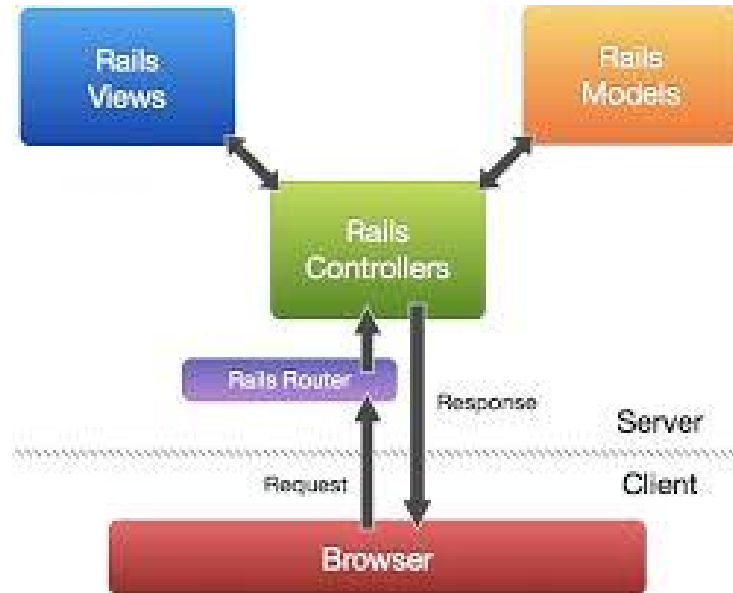
Getting Started with Ruby on Rails

- What is Ruby on Rails
- Architecture of Ruby on Rails Apps
- Why Ruby on Rails
- Sites build with Ruby on Rails
- Installation

Build portfolios site with Ruby on Rails

- Homepage
 - Profile
 - Work Experiences
 - Implement Authentication
 - Porfolios
-

Architecture of Ruby on Rails application



Ruby is a programming Language

Everything you manipulate is an object, and the results of those manipulations are themselves objects

(Yukihiro Matsumoto, The creator of Ruby)

Rails is a web framework

Optimizing for happiness is perhaps the most formative key to Ruby on Rails

(David Heinemeier Hansson, The creator of Rails Framework)

Why Ruby on Rails ?

- Conventions over configurations
- Exalt beautiful code

```
class Project < ApplicationRecord
  belongs_to :account
  has_many :participants, class_name: 'Person'
  validates_presence_of :name
end
```

- Integrated with ORM
- Has good testing frameworks
- The perfect fit for startup



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slideshare

 **GitHub**

 **HARUKAEDU**

Famous Websites
Built with Ruby on Rails

Installation

- ❑ **Install Virtual Box**
VirtualBox-5.0.20-106931-Win.exe
- ❑ **Import Virtual Machine**
HarukaeduWorkshop.ova
- ❑ **Run Terminal**
Windows , Type Terminal or Open Terminal
- ❑ **Check Ruby version**
ruby -v
- ❑ **Check Rails version**
rails -v

BUILD PORTFOLIO SITE

Open Generated Rails Application

- ❑ Open Atom editor
- ❑ Klik Open a Project
- ❑ Open Desktop/workshop/portfolio

Create database

- ❑ Update file config/database.yml

```
Username : root  
Password : harukaedu
```

- ❑ Generate database

```
rake db:create
```

Bootstrap Integration

Bootstrap is a free and open-source front-end library for creating websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.

Create a Homepage

- ❑ Create file `app/controllers/home_controller.rb`

```
class HomeController < ApplicationController
  def index
  end
end
```

- ❑ Create file `app/views/home/index.html.erb`

- ❑ Edit `config/routes.rb`

```
root 'home#index'
```

- ❑ Run server

```
rails server
```

Edit Profile

❑ Create model profile

```
rails generate model profile full_name:string skills:string about:string image_url:string
```

❑ Create table profile

```
rake db:migrate
```

❑ Create file app/controller/profiles_controller.rb

❑ Create file app/views/profiles/edit.html.erb

❑ Update config/routes.rb

```
resources :profiles
```

Show Profile in Homepage

- ❑ Update `app/controllers/home_controller.rb`

```
def index
  @profile = Profile.first
  @experiences = Experience.all
  @portfolios = Portfolio.all
end
```

- ❑ Update `app/views/home/index.html.erb`

Add Work Experiences with Scaffold

- ❑ Run the scaffold generator

```
rails g scaffold experience title:string description:text  
start_date:datetime end_date:datetime
```

```
rake db:migrate
```

- ❑ Open in browser

<http://localhost:3000/experiences>

- ❑ Show in homepage

Add authentication (1)

❑ Setup user authentication

```
rails generate devise:install
rails generate devise User
rake db:migrate
```

❑ Update db/seed.rb

```
User.create(:email => 'user@example.com' , :password =>
'12345678')
```

❑ Run the seed

```
Rake db:seed
```

Add authentication (2)

- ❑ Setup authentication in `profiles_controller.rb` & `experiences_controller.rb`

```
before_action :authenticate_user!
```

Exercise

Add Portfolios

1. Create portfolio
(title, description, tags)
2. Show in homepage