UIT2602 WEB PROGRAMMING

Ex. No 03: Web Page Creation using Ruby on rails

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1. Aim:

To create a simple Rails web page or web application that displays your resume data.

2. Required web tools and methodology:

Web Development Framework: Ruby on Rails (Rails) is used for developing the web application.

Database Management System: Used SQLite as the database management system for storing data.

Terminal or Command Prompt: The terminal or command prompt is used to run Rails commands, start the server, and manage the application.

3. Implementation procedure and Code:

Step 1:

To install Rails, we used the gem install command provided by RubyGems.

gem install rails

```
Fetching webrick-1.8.1.gem
Fetching thor-1.3.1.gem
Fetching rackup-2.1.0.gem
Fetching zeitwerk-2.6.13.gem
Fetching rack-3.0.9.1.gem
Fetching concurrent-ruby-1.2.3.gem
```

……..

```
41 gems installed

A new release of RubyGems is available: 3.4.19 → 3.5.6!
Run `gem update --system 3.5.6` to update your installation.
```

Step 2:

Create a new Rails application: This step involves using the rails new command to generate a new Rails application.

rails new ex4

```
      create
      create  README.md
      create  Rakefile
      create  .ruby-version
      create  config.ru
```

.....

```
Bundle complete! 14 Gemfile dependencies, 82 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
```

cd ex4

Step 3:

Generate a scaffold for the resume data: A scaffold is a set of files including model, views, and controller, for a resource in Rails. In this step, we use the **rails generate scaffold** command to create a scaffold for the resume data.

rails generate scaffold Resume name;string email;string phone ; string summary;text education; text experience; text skills;text

```
      invoke  active_record
      create    db/migrate/20240310113253_create_resumes.rb
      create    app/models/resume.rb
      invoke    test_unit
```

Step 4:

Run the migration: After generating the scaffold, we need to create the corresponding database table by running the migration. The migration file is automatically generated when we generate the scaffold.

rails db:migrate

```
== 20240310113253 CreateResumes: migrating ====================================
-- create_table(:resumes)
   -> 0.0112s
== 20240310113253 CreateResumes: migrated (0.0116s) ===========================
```

Step 5:

Populate the seed data: The **db/seeds.rb** file is used to populate the database with initial data.

```
Resume.create!(
 name: "Raja",
 email: "john@example.com",
 phone: "123-456-7890",
```

```
  summary: "Experienced web developer with expertise in Ruby on
  Rails.", education: "Bachelor of Science in Computer Science,
  University XYZ", experience: "Senior Developer at ABC Company (2018
  - Present)", skills: "Ruby on Rails, HTML/CSS, JavaScript, SQL"
)
```

Step 6:

Then run **rails db:seed** command to execute the seed data and populate the database.

rails db:seed

Step 7:

Modify the routes file: In the config/routes.rb file, we define the routes for the application. Here, we set the root route to the resumes index

```
# config/routes.rb
Rails.application.routes.draw do
  resources :resumes
  root 'resumes#index'
end
```

Step 8:

Modify the views to display resume data: We customize the view files in the **app/views/resumes** directory to display the resume data. In the **index.html.erb** file, we iterate over each resume object and display its attributes using embedded Ruby (ERB) tags.

```
<!-- app/views/resumes/index.html.erb -->
<h1>Resume</h1>
<% @resumes.each do |resume| %>
 <h2><%= resume.name %></h2>
 <p><strong>Email:</strong> <%= resume.email %></p>
 <p><strong>Phone:</strong> <%= resume.phone %></p>
 <p><strong>Summary:</strong> <%= resume.summary %></p>
 <p><strong>Education:</strong> <%= resume.education %></p>
 <p><strong>Experience:</strong> <%= resume.experience %></p>
 <p><strong>Skills:</strong> <%= resume.skills %></p>
<% end %>
```

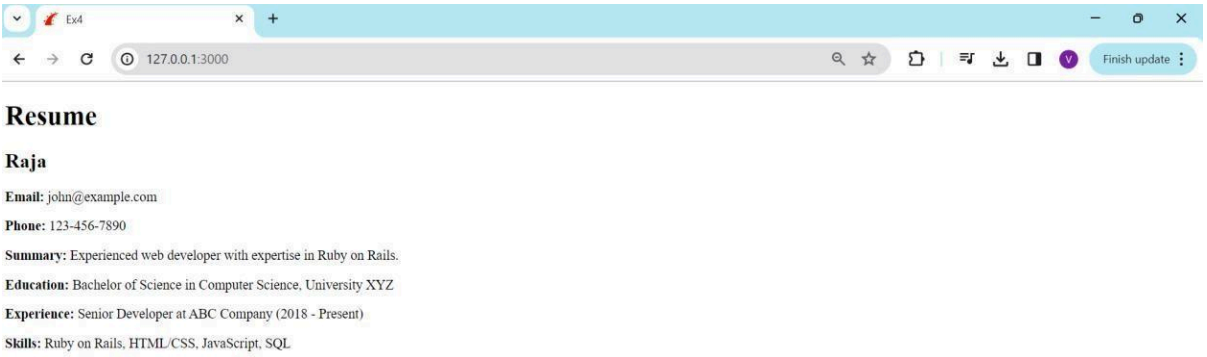
Step 9:

Start the Rails server: We start the Rails server using the **rails server** command, which will launch a web server on localhost. We can then visit **http://localhost:3000** in a web browser to see the resume data displayed.

rails server

```
=> Booting Puma
=> Rails 7.1.3.2 application starting in development
=> Run `bin/rails server --help` for more startup options
*** SIGUSR2 not implemented, signal based restart unavailable!
*** SIGUSR1 not implemented, signal based restart unavailable!
*** SIGHUP not implemented, signal based logs reopening unavailable!
Puma starting in single mode...
* Puma version: 6.4.2 (ruby 3.2.3-p157) ("The Eagle of Durango")
*  Min threads: 5
*  Max threads: 5
*  Environment: development
*          PID: 43768
* Listening on http://[::1]:3000
* Listening on http://127.0.0.1:3000
Use Ctrl-C to stop
Started GET "/" for 127.0.0.1 at 2024-03-10 17:13:50 +0530
  ActiveRecord::SchemaMigration Load (0.2ms)  SELECT "schema_migrations"."version" FROM "schema_migrations" ORDER BY "schema_migrations"."version" ASC
```

4. Output:



5. Conclusion:

This outlines the process of creating a web application using Ruby on Rails. By following the provided steps, developers can efficiently generate a scaffold, populate it with sample data, and display it on a web page.