#### **UIT2602 WEB PROGRAMMING**

## **Exercise 5 - To Integrate Devise for Authentication and Authorization**

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#### 1. Aim:

Integrating Devise or another authentication gem into a Rails application is a common practice to handle user authentication and authorization.

# 2. Required Web Tools and Methodology:

- Ruby on Rails: The web framework will be used to develop the application.
- Web Browser: To test the functionality of the website.

### 3. Output Screenshots:

❖ The `gem install devise` command is used to add devise to our GemFile.

```
C:\Users\sselc>gem install devise
Fetching rack-3.0.10.gem
Fetching warden-1.2.9.gem
Fetching warden-1.2.9.gem
Fetching devise-4.9.3.gem
Fetching responders-3.1.1.gem
Fetching prom_adapter-0.5.0.gem
Fetching brypt-3.1.20.gem
Successfully installed rack-3.0.10
Successfully installed warden-1.2.9
Successfully installed responders-3.1.1
Successfully installed orm_adapter-0.5.0
Temporarily enhancing PATH for RSY/MINGN...
Building native extensions. This could take a while...
Successfully installed brypt-3.1.20

[DEVISE] Please review the [changelog] and [upgrade guide] for more info on Hotwire / Turbo integration.

[changelog] https://github.com/heartcombo/devise/blob/main/CHANGELOG.md
[upgrade guide] https://github.com/heartcombo/devise/wiki/How-To:-Upgrade-to-Devise-4.9.0-%5BHotwire-Turbo-integration%5D

Successfully installed devise-4.9.3
Parsing documentation for rack-3.0.10
Parsing documentation for rack-3.0.10
Parsing documentation for warden-1.2.9
Parsing documentation for responders-3.1.1
Installing ri documentation for responders-3.1.1
Parsing documentation for responders-3.1.1
Parsing documentation for responders-3.1.20
Parsing documentation for corm_adapter-0.5.0
Parsing documentation for corm_adapter-0.5.0
Parsing documentation for corm_adapter-0.5.0
Parsing documentation for corm_adapter-0.5.0
Parsing documentation for brypt-3.1.20
Parsing documentation for devise-4.9.3
Done installing id documentation for devise-4.9.3
Done installing id ocumentation for devise-4.9.3
Done installing id documentation for devise-4.9.3
Done installing documentation for devise-4.9.3
```

- Generate a controller file for the application using the command "rails g controller home index"
- Generate a model for the app using rails generate model User name:string email:string password:string
- Run the migration to create the database table rails db:migrate
- Run the migration to create the database table rails db:migrate
- ♦ Modify the config/routes.rb file to set the root route to the home index

```
Rails.application.routes.draw do get 'home/login' get 'home/signup' post 'home/signup', to: 'home#signup' post 'home/login', to: 'home#login' root 'home#index'
```

```
get 'home/secrets'
get "up" => "rails/health#show", as: :rails_health_check
end
```

Modify the app/views/resumes/index.html.erb

```
<div class="container"> </br>
<h1>This is Home Page of this basic authentication app</h1> </div>
```

Create and edit signin.html.erb

```
<div class="container">
</br>
<form action="/home/login" method="post"> <div class="form-group">
<label for="exampleInputEmail1">Email address</label>
<input type="email" class="form-control" id="exampleInputEmail1" name="email"
aria-describedby="emailHelp">
</div>
</div>
<div class="form-group">
<label for="exampleInputPassword1">Password</label>
<input type="password" class="form-control" id="exampleInputPassword1" name="password">
</div>
<button type="submit" class="btn btn-primary">Submit</button> </form>
</div>
</div>
```

Create and edit signup.html.erb:

```
<div class="container"> </br>
<form action="/home/signup" method="post"> <div class="form-group">
<label for="exampleInputName1">UserName</label>
<input type="text" class="form-control" id="exampleInputName1" name="user[name]"</pre>
aria-describedby="emailHelp">
</div>
<div class="form-group">
<label for="exampleInputEmail1">Email address</label>
<input type="email" class="form-control" id="exampleInputEmail1" name="user[email]"</pre>
aria-describedby="emailHelp">
</div>
<div class="form-group">
<label for="exampleInputPassword1">Password</label>
<input type="password" class="form-control" id="exampleInputPassword1" name="user[password]">
<button type="submit" class="btn btn-primary">Submit</button> </form>
</div>
```

\* Create users.db file:

```
class User < ApplicationRecord
has_secure_password
validates :name, presence: true</pre>
```

```
validates :email, presence: true, uniqueness: true, format: { with: URI::MailTo::EMAIL_REGEXP
}
validates :password, presence: true end
```

### Create header.html.erb:

#### Create secrets.html.erb:

### Create application.html.erb

```
<!doctype html> <html lang="en">
<head>
<!-- Required meta tags --> <meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<!-- Bootstrap CSS --> <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGs03+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9Muh0f23Q9Ifjh" crossorigin="anonymous">
<title>Basic</title> <%= csrf_meta_tags %> <%= csp_meta_tag %>
<%= stylesheet_link_tag "application", "data-turbo-track": "reload" %> <%=
javascript_importmap_tags %>
</head> <body>
<%= render 'home/header' %></head>
```

```
<% flash.each do |key, message| %>
<div class="alert alert-<%= key %> alert-dismissible fade show" role="alert"> <%= message %>
<button type="button" class="close" data-dismiss="alert" aria-label="Close">
<span aria-hidden="true">&times;</span> </button>
</div> <% end %>
<%= yield %>
<!-- Optional JavaScript -->
<!-- jQuery first, then Popper.js, then Bootstrap JS --> <script
src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
integrity="sha384-J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"</pre>
integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/js/bootstrap.min.js"</pre>
integrity="sha384-wfSDF2E50Y2D1uUdj003uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCEx130g8ifwB6"
crossorigin="anonymous"></script>
</body> </html>
```

#### Create home controller.rb:

```
class HomeController < ApplicationController</pre>
before_action :require_login, only: [:secrets]
def index end
def signup
@user = User.new(user_params) if @user.save
Rails.logger.info "New user Created : #{@user}" redirect_to root_url, notice: "Sign up
successful!"
else
render :signup end
end
def login
email = params[:email] password = params[:password] loggedin = true
@user = User.find by(email: email) puts "OK"
if @user && @user.authenticate(password) session[:user_id] = @user.id
puts "suc"
redirect_to '/home/secrets', notice: "Logged in successfully!" else
flash.now.alert = "Invalid email/password combination" unless loggedin puts "invalid
credentials"
render :login end
end
def secrets end
private
def user_params
params.fetch(:user, {}).permit(:name, :email, :password) end
def require_login
unless session[:user_id]
flash[:alert] = "You must be logged in to access this page." redirect_to "/home/login"
end end
end
```

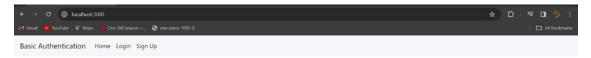
#### ❖ Start the Rails server

#### rails s

Now visit http://localhost:3000 in your browser to see your resume data displayed.

# **Sample Output:**

Home page:



This is Home Page of this basic authentication app

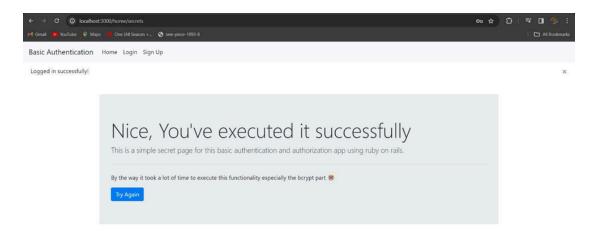
❖ Login Page:



SignUp Page:



# Secrets Page:



# 4. Conclusion:

In conclusion, integrating Devise or another authentication gem into a Rails application to handle user authentication and authorization has been implemented successfully.