SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

UIT2602 WEB PROGRAMMING LABORATORY

Ex 5: Authentication and authorization

Name: Sabarish Sankaran B

Reg No: 3122 21 5002 087

Aim:

Create a simple Rails web application basic authentication and authorization features.

Steps:

Step 1: create a new Rails application

rails new app

cd app

Step 2:generate a conteoller file for the app

rails g controller home index

Step 3:generate a model for the app

rails generate model User name:string email:string password:string

Step 4:Run the migration to create the database table

rails db:migrate

Step 5: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
```

Step 6:Modify the app/views/resumes/index.html.erb:

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

Step 7: create and edit signin.html.erb:

Step 8: create and edit signup.html.erb:

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

Step 9: create users.db file:

```
class User < ApplicationRecord
   has_secure_password
   validates :name, presence: true
   validates :email, presence: true, uniqueness: true, format: { with:
URI::MailTo::EMAIL_REGEXP }
   validates :password, presence: true
end</pre>
```

Step 10:create _header.html.erb:

Step 11: create secrets.html.erb:

Step 12:create application.html.erb

```
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">
    <title>Basic</title>
    <%= csrf meta tags %>
    <%= csp_meta_tag %>
    <%= stylesheet_link_tag "application", "data-turbo-track": "reload"</pre>
    %> <%= javascript importmap tags %>
  </head>
  <body>
  <%= render 'home/header' %>
  <% 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-</pre>
label="Close">
        <span aria-</pre>
      hidden="true">×</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"</pre>
integrity="sha384-
J6qa4849blE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n"
crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
integrity="sha384-
Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/js/bootstrap.min.js"
integrity="sha384-
wfSDF2E50Y2D1uUdj003uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCEx130g8ifwB6"
crossorigin="anonymous"></script>
  </body>
</html>
```

```
Step 13: 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!"
      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
end
```

Step 14:start the Rails server

rails s

Step 9:now visit http://localhost:3000 in your browser to see your resume data displayed.

Sample Output:

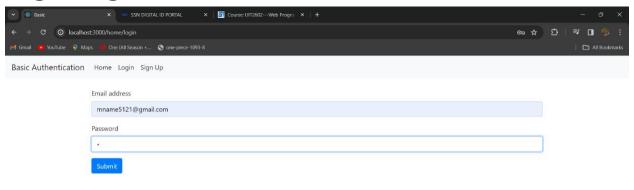
Home page:



This is Home Page of this basic authentication app

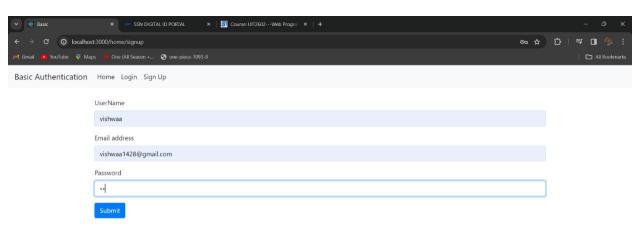


Login Page:



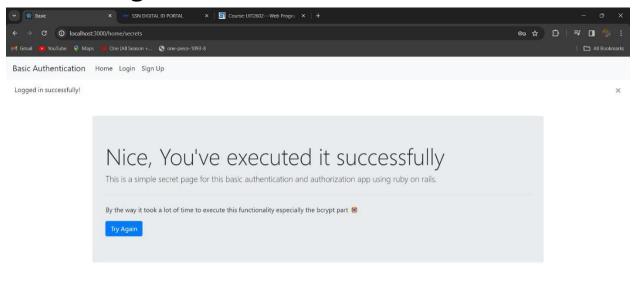


SignUp Page:





Secrets Page:





Conclusion:

A Webpage has been created and executed using Ruby and rails successfully.