

Exemplar code

```
6 # Module containing common methods for Mentees and Mentors
7 module User
8   def load(params)
9     self.email = params.fetch('email', '').strip
10    self.username = params.fetch('username', '').strip
11    self.password = params.fetch('password', '').strip
12  end
13
14  def validate
15    errors.add('email', 'cannot be empty') if email.empty?
16    errors.add('username', 'cannot be empty') if username.empty?
17    errors.add('password', 'cannot be empty') if password.empty?
18  end
19 end
20
21 # A Mentee record from the database
22 class Mentee < Sequel::Model
23   include User
24
25   def exist?
26     compare = Mentee.first(username: username)
27     !compare.nil? && compare.password == password
28   end
29 end
30
31 # A Mentor record from the database
32 class Mentor < Sequel::Model
33   include User
34
35   def load(params)
36     super
37     self.firstname = params.fetch('firstname', '').strip
38     self.lastname = params.fetch('lastname', '').strip
39     self.domain = params.fetch('domain', '').strip
40   end
41
42   def validate
43     super
44     errors.add('firstname', 'cannot be empty!') if firstname.empty?
45     errors.add('lastname', 'cannot be empty!') if lastname.empty?
46     errors.add('domain', 'cannot be empty!') if domain.empty?
47   end
48
49   def exist?
50     compare = Mentor.first(username: username)
51     !compare.nil? && compare.password == password
52   end
53 end
```

Listing A /project/models/user.rb

```
8 post '/login' do
9   @user = Mentee.new
10   @user.load(params)
11   @user.validate
12
13   session[:logged_in] = false
14
15   if @user.exist?
16     session[:logged_in] = true
17     session[:username] = @user.username
18     redirect '/search'
19   else
20     @error = 'Username or password are incorrect.'
21   end
22
23   erb :login
24 end
```

Listing B /project/controllers/login.rb

Exemplar code

```
8 ▸ post '/register' do
9   @user = Mentee.new
10  @user.load(params)
11  @error = nil
12  @wrong_email = nil
13  @error_exist = nil
14
15  if @user.valid?
16    if @user.email.include? '@sheffield.ac.uk'
17      if !@user.exist?
18        @user.save_changes
19        redirect '/login'
20      else
21        @error_exist = "This username has already been taken"
22      end
23    else
24      @wrong_email = 'Must use a University of Sheffield email address'
25    end
26  else
27    @error = 'Please correct the information below'
28  end
29
30  erb :register
31 end
```

Listing C /project/controllers/register.rb

```
12      <% unless @error.nil? %>
13 ▸      <p><strong class="error"><%= @error %></strong></p>
14      <% end %>
15
16 ▸      <p>
17 ▸        <label for="firstname">First Name: </label>
18 ▸        <input type="text" name="firstname" id="firstname" value="<%= h @user.firstname %>" placeholder="First name">
19 ▸      </p>
20 ▸      <% if @user.errors.include?("firstname") %>
21 ▸        <% @user.errors["firstname"].each do |error| %>
22 ▸          <p><strong class = "error">First Name <%= error %></strong></p>
23 ▸        <% end %>
24 ▸      <% end %>
```

Listing D /project/views/registermentor.erb

```
8 ▸ get '/search-for-subject' do
9   @search_field = params['search_field']
10  @search_field_error = nil
11
12 ▸  unless @search_field.nil?
13 ▸    if @search_field.empty?
14 ▸      @search_field_error = 'Please fill in the search field'
15 ▸    end
16 ▸  end
17
18  @mentors = Mentor.where(Sequel.like(:domain, "%#{@search_field}%" .upcase))
19  @no_mentors = 'No mentors match your search' unless @search_field.empty?
20  @email_query = '?subject=MentorSearch%20Mentee%20Request&body=Hi,%20I%20would%20like%20to%20request%20a%20meeting%20with%20you.'
21
22  erb :search
23 end
24
```

Listing E /project/controllers/search.rb

```
37 ▸      <searchResults>
38 ▸      <%if !@mentors.nil? %>
39 ▸      <% if @mentors.count > 0 && !@search_field_error %>
40 ▸      <% @mentors.each do |mentor| %>
41 ▸      <dataBox>
42 ▸      <!-- replace these with appropriate fields-->
43 ▸      <h1><%= mentor.username %></h1>
44 ▸      <p><%= mentor.domain %> </p>
45 ▸      <p><%= mentor.email %> </p>
46 ▸      <p><%= mentor.firstname %> </p>
47 ▸      <p><%= mentor.lastname %> </p>
48 ▸      <button onclick="window.location.href='mailto:<%= mentor.email %><%= @email_query %>';">Contact Mentor</button>
49 ▸      </dataBox>
50 ▸      <% end %>
51 ▸      <% if @mentors.count == 1 %>
52 ▸      <p>There is <%= @mentors.count %> mentor available that can help you</p>
53 ▸      <% else %>
54 ▸      <p>There are <%= @mentors.count %> mentors available that can help you</p>
55 ▸      <% end %>
56 ▸      <% else %>
57 ▸      <br /><strong class="error"><%= @no_mentors %></strong>
58 ▸      <% end %>
59 ▸      <% end %>
```

Listing F /project/views/search.erb