## Exemplar code:

## By - Group 34

Listing A - project/controller/create\_account.rb

```
@username_validation_error = nil
17
     @username_error = nil
19
     @institution_error = nil
     @password_error = nil
20
21
     @users.load(params)
24
25
     if @form_was_submitted
        #sanitise the values by removing whitespace
26
       @username_field.strip!
        @email_field.strip!
28
        @institution_field.strip!
29
        @password_field.strip!
30
       @users.save_changes
31
        redirect "/login"
33
        # now proceed to validation
        @username_error = "Please enter a value for username" if @username_field.empty?
34
35
        #If there is at least one entry of the usernamed typed in the database then return the error
        @username_validation_error = "Sorry, This username is not available" if (DB[:users].where(username: @username_field)).count >0
        @email_error = "Please enter a value for email" if @email_field.empty?
       @institution_error = "Please enter a value for institution" if @institution_field.empty?
@password_error = "Please enter a value for password" if @password_field.empty?
38
39
40
     erb :create_account
```

Listing B - project/controller/create\_account.rb

```
post "/login" do
    @users = User.new
    @users.load(params)
    @error = nil

#if the entry is valid and it exists in the database then redirect the user to the home page
#otherwise return appropriate errors
if @users.valid?
    if @users.exist?
    | session[:logged_in] = true
        redirect "/"
    else
        | @error = "Username/Password combination incorrect"
    end
else
    @error = "Please correct the information below"
end

erb :login
end
```

Listing C - project/controller/login.rb

```
class User < Sequel::Model</pre>
 2
 3
     def load(params)
       self.id = params.fetch("id", "").strip
 4
       self.username = params.fetch("username", "").strip
 5
 6
       self.email = params.fetch("email", "").strip
       self.user_type = params.fetch("user_type", "").strip
 7
       self.institution = params.fetch("institution", "").strip
 8
       self.password = params.fetch("password", "").strip
 9
     end
10
11
     def validate
12
13
       super
       errors.add("username", "cannot be empty") if username.empty?
14
       errors.add("password", "cannot be empty") if password.empty?
15
16
     end
17
     def exist?
18
       other_user = User.first(username: username)
19
       !other_user.nil? && other_user.password == password
20
21
     end
22 end
```

Listing D - project/models/user.rb

```
1 require_relative "../spec_helper"
 2
   describe "Create Post Page" do
     it "checks if a post is created" do
 4
       visit "/create_post"
 5
       fill_in "title", with: "Test26_Title"
 6
 7
       fill_in "topic", with: "Test26_Topic"
       fill_in "institution", with: "Test26_Institution"
 8
       fill_in "link", with: "Test26_Link"
 9
       click button "Submit"
10
11
       visit "/viewer"
12
       expect(page).to have_content "Test26_Title"
13
14
       expect(page).to have_content "Test26_Topic"
15
       expect(page).to have_content "Test26_Institution"
       expect(page).to have_content "Test26_Link"
16
       DB.from("posts").delete
17
       session.clear
18
19
     end
```

Listing E - project/spec /end\_to\_end\_test/create\_post\_spec.rb

```
21
       <div id="create_account_area">
         <form id ="form1" method="post" action="/create_account">
22
23
24
25
            *Username: <br />
26
             <input type="text" name="username" value="<%= h @username_field %>"/>
27
             <% if @username_error %>
               <br /><strong class="error"><%= @username_error %></strong>
28
             <% end %>
29
30
             <% if @username_validation_error %>
             <br /><strong class="error"><%= @username_validation_error %></strong>
31
32
             <% end %>
33
           34
35
           <!-- set the default user_type to poster for every account created -->
36
37
            <input type="hidden" name="user_type" value="poster" />
38
           39
40
41
             *Email: <br />
             <input type="text" name="email" />
42
             <% if @email_error %>
43
             <br /><strong class="error"><%= @email_error %></strong>
44
            <% end %>
45
46
```

Listing F - project/views /create\_account.erb