

```

12 ▾ get '/signup' do
13   erb : "Signup/index"
14 end
15
16 #submitting the signup
17 ▾ post '/signup' do
18
19   @password = params[:password]
20   @repassword = params[:repassword]
21   @username = params[:username]
22   @reason = params[:reason]
23
24   #validation checks for the sign up
25 ▾ if @password != @repassword then
26   @signupError = "Passwords don't match"
27
28 ▾ elsif User.getByUsername(@username) != nil then
29   @signupError = "Username already exists"
30
31 ▾ else
32   #creating the user
33 ▾ if User.newUser(@username, @password, 0, 1)
34
35
36   newAccount = User.getByUsername(@username)
37 ▾ if SignupRequest.newRequest(newAccount.userId, @reason)
38   @signupSuccess = "Account created and sent for approval"
39 ▾ else
40   @signupError = "Sign up request not logged"
41   end
42 ▾ else
43   @signupError = "Account unable to be created"
44   end
45 end
46
47   erb : "Signup/index"
48
49 end

```

Controllers/Signup.rb

```

10 #adding ratings to the bookmarks
11 ▾ post '/ratings/add' do
12
13   #checking the rate has a value
14 ▾ if params[:rate] == nil then
15   redirect "/bookmarks/view/#{params[:bookmarkId]}"
16   end
17
18   #adding a rate to the bookmark
19   rate = Integer(params[:rate])
20 ▾ if session[:loggedIn] != true then
21   @ratingError = "User not logged in"
22   redirect "/bookmarks/view/#{params[:bookmarkId]}"
23 ▾ else
24   result = Rating.newRating(params[:bookmarkId], session[:userId], rate)
25
26 ▾ if result then
27   redirect "/bookmarks/view/#{params[:bookmarkId]}"
28 ▾ else
29   status 500
30   end
31 end
32
33 end

```

Controllers/Ratings.rb

```

133 #searching function for the bookmarks
134 def self.searchBy(searchTerm, searchType)
135   toReturn = []
136
137   #changing the query dependant on the search
138   if searchType == "title" then
139     query = "SELECT * FROM bookmarks WHERE title LIKE ? ;"
140     result = DB.execute query, "%" + searchTerm + "%"
141   elsif searchType == "resource" then
142     query = "SELECT * FROM bookmarks WHERE resource LIKE ? ;"
143     result = DB.execute query, "%" + searchTerm + "%"
144
145   elsif searchType == "bookmarkId" then
146     query = "SELECT * FROM bookmarks WHERE bookmarkId LIKE ? ;"
147     result = DB.execute query, searchTerm
148   elsif searchType == "userId" then
149     query = "SELECT * FROM bookmarks WHERE userId LIKE ? ;"
150     result = DB.execute query, searchTerm
151   end
152
153   for bookmark in result do
154     bookmarkObj = Bookmark.new(bookmark[0], bookmark[1], bookmark[2], bookmark[3], bookmark[4], bookmark[5], bookmark[6])
155     toReturn.push(bookmarkObj)
156   end
157
158   return toReturn
159 end

```

Models/Bookmark.rb

```

72 def self.newFavourite(bookmarkId, userId)
73
74   query = "INSERT INTO favourites('bookmarkId', 'userId') VALUES(?,?);"
75
76   begin
77     DB.execute query, bookmarkId, userId
78   rescue SQLite3::Exception
79     return false
80   end
81
82   return true
83 end
84
85 # Remove a favourite between a bookmark and a userId
86 # Returns: if operation was successful
87 def self.removeFavourite(bookmarkId, userId)
88
89   query = "DELETE FROM favourites WHERE bookmarkId=? AND userId=?;"
90
91   begin
92     DB.execute query, bookmarkId, userId
93   rescue SQLite3::Exception
94     return false
95   end
96
97   return true
98 end
99
100 #checking if the bookmark is a favourite for that user
101 def self.isFavourite(bookmarkId, userId)
102
103   query = "SELECT * FROM favourites WHERE bookmarkId=? AND userId=?;"
104
105   result = DB.execute query, bookmarkId, userId
106
107   if result.length == 0 then
108     return false
109   else
110     return true
111   end
112
113 end

```

Models/Favourite.rb

```

181 ▾ def self.doesTagExist(tag)
182
183     query = "SELECT * FROM tags WHERE tag=?;"
184
185     result = DB.execute query, tag
186
187 ▾     if result == "" || result == nil || result[0] == nil then
188         return nil
189 ▾     else
190         return result[0][0]
191     end
192
193 end
194
195 # Verifies if a link exists between a tag and a bookmark
196 # Returns bool defining if link exists
197 ▾ def self.doesLinkExist(bookmarkId, tagId)
198
199     query = "SELECT * FROM bookmarks_to_tags WHERE bookmarkId = ? AND tagId = ?;"
200
201     result = DB.execute query, bookmarkId, tagId
202
203 ▾     if result == "" || result == nil || result[0] == nil then
204         return false
205 ▾     else
206         return true
207     end
208
209 end
210
211 ▾ def self.trimTagArray(array, maxLength)
212
213 ▾     if array.length > maxLength then
214         array = array.first(maxLength)
215     end
216
217     return array
218 end

```

Models/Tag.rb

```

319 ▾ .rating:not(:checked) > input {
320     position:absolute;
321     top:-9999px;
322 }
323 ▾ .rating:not(:checked) > label {
324     float:right;
325     width:1em;
326     cursor:pointer;
327     font-size:1.75em;
328     color:lightgray;
329 }
330 ▾ .rating:not(:checked) > label:before {
331     content: '★ ';
332 }
333 ▾ .rating > input:checked ~ label {
334     color: #fad728;
335 }
336 .rating:not(:checked) > label:hover,
337 ▾ .rating:not(:checked) > label:hover ~ label {
338     color: #e8b910;
339 }
340
341 ▾ .dropdown-content {
342     display: none;
343     position: absolute;
344     background-color: black;
345     min-width: 160px;
346     box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
347     z-index: 1;
348 }
349 ▾ .dropdown-content a {
350     color: white;
351     padding: 12px;
352     text-decoration: none;
353     display: block;
354 }
355 ▾ .dropdown:hover .dropdown-content {
356     display: block;
357 }

```

Public/css/style.css

```
49 #Adds bookmarks into the database, one that respects the field requiremenets and one that is "archived" and does not have a valid URL
50 #Should return true for the first bookmark because it respects the requiremenets and false for the second one
51 def test_new_bookmark
52
53     resultOne = Bookmark.newBookmark("Hello", "Hello description", "https://google.co.uk/", 1, 1);
54
55     assert_equal true, resultOne
56
57     resultTwo = Bookmark.newBookmark("Duplicate resource", "Duplicate description", "something", 0, 1);
58
59     assert_equal false, resultTwo
60
61 end
62
63 #Gets a bookmark that has ID = 1 and a bookmark that has ID = -1
64 #Should return true for all the tests made for ID = 1 and ID = -1, because there does not exist a bookmark with a negative ID
65 def test_get_by_id
66
67     bookmarkOne = Bookmark.getById(1)
68
69     assert_equal '18 March', bookmarkOne.createdAt
70     assert_equal 'apple', bookmarkOne.title
71     assert_equal 'something', bookmarkOne.description
72     assert_equal 'something', bookmarkOne.resource
73     assert_equal true, bookmarkOne.archived
74
75     bookmarkNegative = Bookmark.getById(-1)
76
77     assert_nil bookmarkNegative
78
79 end
```

Tests/Bookmark_test.rb

```
1 <%= erb : "Shared/header" %>
2
3 <h1>All bookmarks</h1>
4 <hr />
5 <% if @bookmarks.length > 0 then %>
6 <div class="container">
7   <table>
8     <tr>
9       <th>Count</th>
10      <th>Title</th>
11      <th>Description</th>
12      <th>Rating</th>
13      <th>View</th>
14    </tr>
15    <% for i in (0..(@bookmarks.length - 1)) %>
16      <tr>
17        <td><%= (i + 1) %></td>
18        <td><%= @bookmarks[i].title %></td>
19        <td><%= @bookmarks[i].description %></td>
20        <td><%= @ratings[i][0] %> (<%= @ratings[i][1] %>)</td>
21        <td class="btn-col"><a href="/bookmarks/view/<%= @bookmarks[i].bookmarkId %>">&#10132;</a></td>
22      </tr>
23    <% end %>
24  </table>
25 </div>
26 <% else %>
27
28 <p class="error-message">No bookmarks exist.</p>
29
30 <% end %>
31
32 <%= erb : "Shared/footer" %>
```

Views/Bookmarks/index.erb