7/15/24, 1:56 PM index.js

#### index.js

```
1 const express = require('express');
2
   // Start
3 const session = require('express-session');
4 const helmet = require('helmet');
5 // End
6 const bodyParser = require('body-parser');
7 const compression = require('compression');
8
   // Start
   const path = require('path');
9
10 | const dotenv = require('dotenv');
11
   // End
12 const sqlite3 = require('sqlite3').verbose();
13 // Start
14 | dotenv.config();
15 // End
16
   const app = express();
17
   const port = 3000;
18
19
   // Set up SQLite
20
   global.db = new sqlite3.Database('./database.db', function(err) {
21
        if (err) {
22
            console.error(err);
23
            process.exit(1); // bail out we can't connect to the DB
24
        } else {
25
            console.log("Database connected");
26
            global.db.run("PRAGMA foreign_keys=ON"); // tell SQLite to pay attention to foreign
    key constraints
27
       }
28
   });
29
30
   // Start
31
   // Security Best Practices
32
   app.use(helmet());
33
   app.disable('x-powered-by');
34
35
   // Middleware setup
36
    app.use(compression()); // Compress responses
    app.use(bodyParser.urlencoded({ extended: true })); // Parse URL-encoded bodies
37
38
39
   app.set('view engine', 'ejs');
40
41
   // Static file caching
42
   app.use(express.static(path.join(__dirname, 'public'), { maxAge: '1y' }));
43
44
   // Session management with secure cookies
    app.use(session({
45
        secret: process.env.SESSION_SECRET,
46
47
        resave: false,
48
        saveUninitialized: true,
49
        cookie: {
50
            httpOnly: true,
```

7/15/24, 1:56 PM index.js

```
51
            secure: process.env.NODE_ENV === 'production', // Ensure cookies are secure in
    production
52
            sameSite: 'lax',
            maxAge: 60 * 60 * 1000 // 1 hour
53
54
        }
55
   }));
56
57
   // Prevent caching for dynamic responses
    app.use((req, res, next) => {
58
59
        res.setHeader('Cache-Control', 'no-store');
60
        next();
61
   });
62
63
   // Middleware and Routes setup
   const authMiddleware = require('./middleware/auth');
64
    const setUserMiddleware = require('./middleware/setUser');
65
66
67
   const authRoutes = require('./routes/auth');
    const authorRoutes = require('./routes/author');
68
69
    const readerRoutes = require('./routes/reader');
    const settingsRoutes = require('./routes/settings');
70
71
72
    app.use(setUserMiddleware); // Ensure setUserMiddleware runs before routes
73
74
   app.use('/auth', authRoutes); // Public route
    app.use('/author', authMiddleware, authorRoutes); // Protected route
75
76
    app.use('/reader', readerRoutes); // Public route
77
    app.use('/settings', authMiddleware, settingsRoutes); // Protected route
78
79
    // Route for getting user data
   app.get('/api/user', (req, res) => {
80
        if (req.session.isAuthenticated) {
81
82
            res.json({ user: req.session.user });
83
        } else {
84
            res.status(401).json({ error: 'Unauthorized' });
85
        }
86
        res.setHeader('Cache-Control', 'no-store');
87
   });
88
89
    // Route for serving the main home page
90
   app.get('/', (req, res) => {
91
        res.render('mainHome');
92
   });
93
   // Start the server
94
95
   app.listen(port, () => {
        console.log(`Blogging tool listening at http://localhost:${port}`);
96
97
   });
98 // End
```

7/15/24, 1:53 PM db\_schema.sql

### db schema.sql

```
1 PRAGMA foreign_keys=ON;
2
3 -- Start
4 | CREATE TABLE IF NOT EXISTS users (
5
        user_id INTEGER PRIMARY KEY AUTOINCREMENT,
6
       user_name TEXT NOT NULL,
       email TEXT UNIQUE NOT NULL,
7
8
        password TEXT
9
   );
10
11
   CREATE TABLE IF NOT EXISTS articles (
12
        article id INTEGER PRIMARY KEY AUTOINCREMENT,
13
       title TEXT NOT NULL,
14
       content TEXT NOT NULL,
       created at DATETIME DEFAULT CURRENT TIMESTAMP,
15
16
       updated_at DATETIME DEFAULT CURRENT_TIMESTAMP,
17
       published_at DATETIME,
18
       author_id INTEGER,
19
       views INTEGER DEFAULT 0,
20
        FOREIGN KEY (author_id) REFERENCES users(user_id) ON DELETE CASCADE
21
   );
22
23
   CREATE TABLE IF NOT EXISTS comments (
24
        comment_id INTEGER PRIMARY KEY AUTOINCREMENT,
25
        article_id INTEGER,
26
       commenter_name TEXT NOT NULL,
27
        comment TEXT NOT NULL,
28
        created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
29
        FOREIGN KEY (article_id) REFERENCES articles(article_id) ON DELETE CASCADE
30
   );
31
32
   CREATE TABLE IF NOT EXISTS likes (
33
        like id INTEGER PRIMARY KEY AUTOINCREMENT,
34
        article id INTEGER,
35
       user_id INTEGER,
36
       FOREIGN KEY (article id) REFERENCES articles(article id) ON DELETE CASCADE,
        FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE,
37
       UNIQUE(article_id, user_id)
38
39
   );
40
   CREATE TABLE IF NOT EXISTS settings (
41
42
        setting id INTEGER PRIMARY KEY AUTOINCREMENT,
43
       blog title TEXT NOT NULL,
44
        author_name TEXT NOT NULL,
        author id INTEGER NOT NULL UNIQUE,
45
46
        FOREIGN KEY (author_id) REFERENCES users(user_id) ON DELETE CASCADE
47
   );
48
49
   CREATE TABLE IF NOT EXISTS views (
50
        view_id INTEGER PRIMARY KEY AUTOINCREMENT,
        article id INTEGER,
51
```

```
52
       user_id INTEGER,
53
       created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
       FOREIGN KEY (article_id) REFERENCES articles(article_id) ON DELETE CASCADE,
54
55
       FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE
56 );
57
   -- Insert a default user if not exists
58
   INSERT INTO users (user_name, email, password)
59
   SELECT 'Default Author', 'default@example.com', NULL
60
61
   WHERE NOT EXISTS (SELECT 1 FROM users);
62
63 -- Insert initial settings if not exists
64 INSERT INTO settings (blog_title, author_name, author_id)
65 | SELECT 'My Blog', 'Author Name', user_id
66 FROM users
   WHERE NOT EXISTS (SELECT 1 FROM settings);
67
68 -- End
```

7/15/24, 1:51 PM .env

# .env

```
# Start
SESSION_SECRET=

GOOGLE_CLIENT_ID=
GOOGLE_CLIENT_SECRET=
# End
```

### views\settingsPage.ejs

```
1 <!-- Start -->
2 <!DOCTYPE html>
  <html lang="en">
  <head>
5
    <meta charset="UTF-8">
6
    <title>Settings</title>
7
8
    <!-- Add a favicon for the website to avoid 404 error message -->
    <link rel="shortcut icon" href="#">
9
10
11
    <!-- Loading CSS -->
12
    <link rel="stylesheet" type="text/css" href="/main.css">
13
  </head>
  <body>
14
    15
16
    <nav class="navbar">
17
      <h1>Settings Page</h1>
18
      <!-- -----navbar Links-------->
19
      <l
20
        <a href="/author">Back to Author Home</a>
21
        <a href="/auth/logout">Logout</a>
22
23
    </nav>
    24
25
    <div class="blog-section">
26
      <form action="/settings" method="post">
27
        <label>Blog Title:</label>
        <input type="text" name="blog_title" value="<%= settings.blog_title %>">
28
29
        <label>Author Name:</label>
        <input type="text" name="author_name" value="<%= settings.author_name %>">
30
        <button type="submit">Save Settings</button>
31
32
      </form>
33
    </div>
  </body>
35
   </html>
36 <!-- End -->
```

7/15/24, 1:49 PM register.ejs

# views\register.ejs

```
1 <!-- Start -->
2
  <!DOCTYPE html>
   <html lang="en">
   <head>
5
      <meta charset="UTF-8">
6
      <title>Register</title>
7
8
      <!-- Add a favicon for the website to avoid 404 error message -->
      <link rel="shortcut icon" href="#">
9
10
11
      <!-- Loading CSS -->
12
      <link rel="stylesheet" type="text/css" href="/main.css" />
13
  </head>
  <body>
14
    15
16
    <nav class="navbar">
17
      <h1>Register</h1>
18
    </nav>
19
    <!-- ------register form------
20
      <div class="register-form">
21
        <h2>Register and then login</h2>
22
      <form action="/auth/register" method="post">
23
          <label>User Name:</label>
          <input type="text" name="user_name" required>
24
25
          <label>Email:</label>
          <input type="email" name="email" required>
26
27
          <label>Password:</label>
          <input type="password" name="password" required>
28
          <button type="submit">Register</button>
29
30
      </form>
31
      32
      <% if (errors && errors.length > 0) { %>
        ul id="registerError-text">
33
          <% errors.forEach(error => { %>
34
35
           <%= error.msg %>
36
          <% }) %>
37
        <% } %>
38
      <!-- -----Link to back to login----- -->
39
      Back to <a href="/auth/login">Login</a>
40
     </div>
41
42
   </body>
   </html>
43
44
   <!-- End -->
```

7/15/24, 1:49 PM readerHome.ejs

### views\readerHome.ejs

```
1 <!-- Start -->
2
  <!DOCTYPE html>
  <html lang="en">
  <head>
5
      <meta charset="UTF-8">
6
      <title><%= blogTitle %> - Reader Home</title>
7
8
      <!-- Add a favicon for the website to avoid 404 error message -->
      <link rel="shortcut icon" href="#">
9
10
11
      <!-- Loading CSS -->
12
      <link rel="stylesheet" type="text/css" href="/main.css">
13
  </head>
  <body>
14
      15
      <nav class="navbar">
16
         <h1>Reader Home Page</h1>
17
18
         <!-- -----navbar Links------->
19
         <u1>
            <a href="/">Main Home</a>
20
            class="active">Reader Home
21
22
         23
      </nav>
      24
25
         <% if (articles.length > 0) { %>
            <% articles.forEach(article => { %>
26
27
               <div class="article-item">
28
                   <h3><a href="/reader/article/<%= article.article_id %>"><%= article.title
   %></a></h3>
29
                  Article by: <%= article.author_name %>
30
31
                      Published on: <%= article.published_at %> PKT
32
                   33
               </div>
34
            <% }) %>
35
         <% } else { %>
            No articles to display.
36
37
         <% } %>
38
  </body>
39
   </html>
  <!-- End -->
40
```

7/15/24, 1:48 PM mainHome.ejs

### views\mainHome.ejs

```
1 <!-- Start -->
2 <!DOCTYPE html>
  <html lang="en">
  <head>
5
    <meta charset="UTF-8">
6
    <title>Main Home</title>
7
8
    <!-- Add a favicon for the website to avoid 404 error message -->
    <link rel="shortcut icon" href="#">
9
10
    <!-- Loading CSS -->
11
12
    <link rel="stylesheet" type="text/css" href="/main.css">
13
  </head>
   <body>
14
    15
    <nav class="navbar">
16
17
      <h1>Blogging Tool</h1>
18
      <!-- -----navbar Links-------->
19
      <l
20
       class="active">Home
        <a href="/author">Author Home Page</a>
21
22
        <a href="/reader">Reader Home Page</a>
23
      24
25
      <% if (user && user.user_name !== 'Guest') { %>
26
        <div class="welcome-message">
27
         Welcome, <%= user.user_name %>! <a href="/auth/logout">Logout</a>
28
        </div>
29
      <% } else { %>
30
        <div class="welcome-message">
         Welcome, Guest! <a href="/auth/login">Login</a>
31
32
        </div>
33
      <% } %>
34
    </nav>
35
    <div class="main-blog-articles">
      <div class="blog-articles">
36
        <h4>Welcome</h4>
37
38
        to the Blogging Tool
39
      </div>
40
    </div>
   </body>
41
42
  </html>
43 <!-- End -->
```

7/15/24, 1:48 PM login.ejs

### views\login.ejs

```
1 <!-- Start -->
2
  <!DOCTYPE html>
   <html lang="en">
   <head>
5
      <meta charset="UTF-8">
6
      <title>Login</title>
7
8
      <!-- Add a favicon for the website to avoid 404 error message -->
       <link rel="shortcut icon" href="#">
9
10
11
      <!-- Loading CSS -->
12
       <link rel="stylesheet" type="text/css" href="/main.css" />
13
  </head>
    <body>
14
     <!-- -----navbar------ -->
15
     <nav class="navbar">
16
17
      <h1>Login</h1>
      <!-- ------navbar Links------->
18
19
20
        <a href="/">Main Home</a>
21
        class="active">Author Home Page
22
23
     </nav>
24
      <!-- -----login form------
25
      <div class="login-form">
        <form action="/auth/login" method="post">
26
27
            <label>Email:</label>
            <input type="email" name="email" required>
28
29
            <label>Password:</label>
30
            <input type="password" name="password" required>
31
            <button type="submit">Login</button>
32
33
       <!-- -----Login error------>
       <% if (errors && errors.length > 0) { %>
34
        ul id="loginError-text">
35
          <% errors.forEach(error => { %>
36
            <%= error.msg %>
37
          <% }) %>
38
        39
40
       <% } %>
       <!-- -----Other Login options---------->
41
42
      >Don't have an account? <a href="/auth/register">Register here</a> 
43
44
      <a href="/auth/google">Login with Google</a>
       </div>
45
46
    </body>
   </html>
47
48 <!-- End -->
```

7/15/24, 1:47 PM editArticle.ejs

### views\editArticle.ejs

```
1 <!-- Start -->
2 <!DOCTYPE html>
3 <html lang="en">
  <head>
5
    <meta charset="UTF-8">
6
    <title>Edit Article</title>
7
8
    <!-- Add a favicon for the website to avoid 404 error message -->
     <link rel="shortcut icon" href="#">
9
10
11
    <!-- Loading CSS -->
12
    <link rel="stylesheet" type="text/css" href="/main.css">
13
  </head>
  <body>
14
    15
16
    <nav class="navbar">
17
      <h1>Edit Article</h1>
18
      <!-- -----navbar Links------->
19
20
        <a href="/author">Back to Author Home</a>
21
      22
    </nav>
23
    24
    <div class="blog-section">
25
      <div class="article-container">
26
        <h5>Edit Article</h5>
27
        <form class="editArticle-field" action="/author/edit/<%= article.article id %>"
   method="post">
28
         <label>Title:</label>
          <input type="text" name="title" value="<%= article.title %>" required>
29
30
         <label>Content:</label>
31
          <textarea name="content" required><%= article.content %></textarea>
32
          <button type="submit">Save Changes</button>
33
        </form>
      </div>
34
    </div>
35
36
  </body>
  </html>
38 <!-- End -->
```

7/15/24, 1:47 PM authorHome.ejs

#### views\authorHome.ejs

```
1 <!-- Start -->
  <!DOCTYPE html>
2
3
   <html lang="en">
   <head>
4
5
       <meta charset="UTF-8">
6
       <title>Author Home</title>
7
8
       <!-- Add a favicon for the website to avoid 404 error message -->
       <link rel="shortcut icon" href="#">
9
10
11
       <!-- Loading CSS -->
12
       <link rel="stylesheet" type="text/css" href="/main.css">
13
       <!-- Loading Javascript -->
       <script src="/confirm.js" defer></script>
14
15
   </head>
   <body>
16
17
       <!-- -----navbar-----navbar-----
   -->
       <nav class="navbar">
18
          <h1><%= blogTitle %></h1>
19
          <!-- -----navbar Links-------->
20
          <1115
21
              <a href="/">Main Home</a>
22
23
              class="active">Author Home
24
              <a href="/settings">Settings</a>
              <a href="/auth/logout">Logout</a>
25
          26
27
       </nav>
       28
       <div class="main-blog-articles">
29
          <div class="blog-articles">
30
              <h4>Published Articles</h4>
31
              <u1>
32
                  <% publishedArticles.forEach(article => { %>
33
34
                  class="published-articles">
35
                     <a href="/reader/article/<%= article.article id %>">View <%=</pre>
   article.title %></a> by <%= authorName %>
36
                     Created at: <%=
   moment.utc(article.created_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss') %> PKT
                     Last modified at: <%=
37
   moment.utc(article.updated_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss') %> PKT
38
                     Published at: <%=
   moment.utc(article.published_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss') %> PKT
39
                     <form id="delete-published-<%= article.article id %>"
   action="/author/delete/<%= article.article_id %>" method="post">
                         <button type="button" class="delete-published-button" data-form-
40
   id="delete-published-<%= article.article_id %>">Delete</button>
                     </form>
41
                  42
                  <% }) %>
43
44
```

```
45
            </div>
46
            <div class="blog-articles line-between-publish-and-draft">
47
               <h4>Draft Articles</h4>
               <u1>
48
49
                   <% draftArticles.forEach(article => { %>
                   class="draft-articles">
50
51
                       <a href="/author/edit/<%= article.article_id %>">Click to Edit <%=</pre>
    article.title %></a> by <%= authorName %>
52
                       Created at: <%=
   moment.utc(article.created_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss') %> PKT
                       >Last modified at: <%=
53
   moment.utc(article.updated_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss') %> PKT
                       <form id="publish-draft-<%= article.article id %>"
54
    action="/author/publish/<%= article.article_id %>" method="post">
                           <button type="button" class="publish-button" data-form-id="publish-
55
   draft-<%= article.article_id %>">Publish</button>
                       </form>
56
                       <% if (publishMessage) { %>
57
                       <%= publishMessage %>
58
59
                       <% }; %>
60
                       <form id="delete-draft-<%= article.article_id %>"
    action="/author/delete/<%= article.article_id %>" method="post">
                           <button type="button" class="delete-draft-button" data-form-
61
    id="delete-draft-<%= article.article id %>">Delete</button>
62
                       </form>
                    63
                   <% }) %>
64
65
               <form action="/author/create-draft" method="post">
66
                    <button type="submit">Create new draft</button>
67
68
                </form>
69
           </div>
       </div>
70
71
       <!-- Modal for confirmation dialog -->
72
        <div id="confirmationModal" class="modal">
73
           <div class="modal-content">
74
75
               76
               <button id="confirmYes">Yes</button>
                <button id="confirmNo">No</button>
77
78
           </div>
       </div>
79
80
       <style>
81
            .modal /* Styles for the modal container */
82
               display: none; /* Initially hide the modal */
83
84
               position: fixed; /* Fixed position so it stays in place regardless of scrolling
    */
               z-index: 1; /* Ensure modal is on top of other content */
85
86
               left: 0;
87
               top: 0;
               width: 100%; /* Full width of the viewport */
88
               height: 100%; /* Full height of the viewport */
89
90
               overflow: auto; /* Enable scrolling if content exceeds viewport */
               background-color: rgb(0,0,0); /* Fallback color for older browsers */
91
```

7/15/24, 1:47 PM authorHome.ejs 92 background-color: rgba(0,0,0,0.4); /\* Transparent black overlay \*/ 93 } 94 95 .modal-content /\* Styles for the modal content \*/ 96 { 97 background-color: #fefefe; /\* White background for the modal content \*/ margin: 20% auto; /\* Center the modal vertically & horizontally \*/ 98 padding: 30px; /\* Padding inside the modal content \*/ 99 100 border: 1px solid #4d388b; 101 width: 30%; 102 text-align: center; 103 } 104 #confirmYes, #confirmNo /\* Styles for 'Yes' and 'No' buttons \*/ 105 106 107 margin-top: 10px; /\* Add some space above the buttons \*/ 108 } 109 </style> 110 </body> 111 </html> 112 <!-- End -->

7/15/24, 1:46 PM articlePage.ejs

### views\articlePage.ejs

```
1 <!-- Start -->
2
  <!DOCTYPE html>
  <html lang="en">
  <head>
5
    <meta charset="UTF-8">
    <title><%= article.title %></title>
6
7
8
    <!-- Add a favicon for the website to avoid 404 error message -->
     <link rel="shortcut icon" href="#">
9
10
11
    <!-- Loading CSS -->
12
     <link rel="stylesheet" type="text/css" href="/main.css">
13
   </head>
   <body>
14
    <!-- -----navbar------ -->
15
     <nav class="navbar">
16
      <h1><%= article.title %></h1>
17
      <!-- -----navbar Links------->
18
19
        <a href="/reader">Back to Reader Home</a>
20
        <a href="/author">Back to Author Home</a>
21
22
23
     </nav>
24
     25
     <div class="blog-section">
26
      <div class="article-container">
27
        <h5><%= article.title %></h5>
28
        <% if (article.showAuthorName) { %>
29
          By <%= article.author %>
30
        <% } %>
31
        <%= article.content %>
32
        <hr>>
        Published on: <%=</pre>
33
   moment.utc(article.published_at).tz('Asia/Karachi').format('YYYY-MM-DD HH:mm:ss') %> PKT
        Views: <%= article.views %> | Likes: <%= likeCount %>
34
        <% if (likeMessage) { %>
35
          <%= likeMessage %>
36
37
        <% } %>
        <form action="/reader/article/<%= article.article_id %>/like" method="post">
38
39
          40
        </form>
        <form action="/reader/article/<%= article.article_id %>/comment" method="post">
41
          <label>Name:</label>
42
          <input type="text" name="commenter_name" required>
43
44
          <label>Comment:</label>
          <textarea name="comment" required></textarea>
45
          <button type="submit">Add Comment
46
        </form>
47
        <u1>
48
          <% comments.forEach(comment => { %>
49
50
           <1i>>
```

7/15/24, 1:46 PM articlePage.ejs

```
51
               <strong><%= comment.commenter_name %>:</strong> <%= comment.comment %> - <%=</pre>
   moment.utc(comment.created_at).tz('Asia/Karachi').format('YYYY-MM-DD HH:mm:ss') %> PKT
52
             <% }); %>
53
54
         55
       </div>
56
     </div>
57
   </body>
   </html>
58
59 <!-- End -->
```

7/15/24, 1:45 PM settings.js

# routes\settings.js

```
// Start
1
2
   const express = require('express');
3
4
   const router = express.Router();
5
    /**
6
7
     * Route serving the settings page.
8
     * @name get/settings
9
     * @function
10
     * @memberof module:routers/settings~settingsRouter
11
12
     * @param {string} path - Express path
13
     */
    router.get('/', (req, res) => {
14
        const guery = "SELECT * FROM settings WHERE author id = ?";
15
16
        // Database interaction: Fetching the settings of the current user
17
        // Inputs: Author ID from the session
        // Outputs: Settings of the current user if found, else null
18
19
        global.db.get(query, [req.session.user.user_id], (err, settings) => {
20
            if (err)
21
            {
22
                console.error("Error retrieving settings:", err);
23
                res.status(500).send("Error retrieving settings");
24
                return;
25
            }
26
            if (!settings)
27
            {
                settings = { blog_title: 'Default Blog Title', author_name: 'Set your name' };
28
29
            }
30
            res.render('settingsPage', { settings: settings });
31
        });
32
   });
33
34
    /**
35
     * Route for updating the settings.
36
     * @name post/settings
37
     * @function
     * @memberof module:routers/settings~settingsRouter
38
39
     * @inner
40
     * @param {string} path - Express path
     */
41
    router.post('/', (req, res) => {
42
43
        const blogTitle = req.body.blog_title;
44
        const authorName = req.body.author_name;
        const authorId = req.session.user.user id;
45
        console.log("Received data:", { blogTitle, authorName, authorId });
46
        if (!blogTitle || !authorName || !authorId)
47
48
        {
49
            console.error("Missing required fields");
50
            return res.status(400).send("Missing required fields");
51
        }
```

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```
52
        const query = `
53
            INSERT INTO settings (blog_title, author_name, author_id)
54
            VALUES (?, ?, ?)
55
            ON CONFLICT(author_id) DO UPDATE SET
            blog_title = excluded.blog_title,
56
57
            author_name = excluded.author_name; `;
        const params = [blogTitle, authorName, authorId];
58
        // Database interaction: Inserting or updating the settings in the database
59
        // Inputs: Blog title, author name, and author ID from the request body and session
60
61
        // Outputs: None
62
        global.db.run(query, params, function(err)
63
64
            if (err)
65
                console.error("Error updating settings:", err);
66
                res.status(500).send("Error updating settings");
67
68
                return;
69
            }
70
            console.log("Settings updated successfully");
71
            res.redirect('/author');
72
        });
73
   });
74
75
   module.exports = router;
76 // End
```

7/15/24, 1:44 PM reader.js

# routes\reader.js

```
1 // Start
 2
   const express = require('express');
   const moment = require('moment-timezone');
   const TIMEZONE = 'Asia/Karachi';
 4
 6
   const router = express.Router();
7
   /**
8
9
     * Route serving the reader's home page.
     * @name get/reader
10
     * @function
11
12
     * @memberof module:routers/reader~readerRouter
13
     * @inner
     * @param {string} path - Express path
14
15
    router.get('/', (req, res) => {
16
17
        const articlesQuery =
            SELECT articles.*, IFNULL(settings.author_name, users.user_name) AS author_name
18
19
            FROM articles
            LEFT JOIN settings ON articles.author_id = settings.author_id
20
            LEFT JOIN users ON articles.author_id = users.user_id
21
22
            WHERE published_at IS NOT NULL
            ORDER BY published_at DESC`;
23
24
        // Database interaction: Fetching all published articles
25
        // Inputs: None
26
        // Outputs: All published articles
27
        global.db.all(articlesQuery, [], (err, articles) => {
28
29
            {
                console.error(err);
30
                return res.status(500).send("Error retrieving articles");
31
32
            articles.forEach(article => {
33
                article.published at =
34
    moment.utc(article.published_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss');
35
            res.render('readerHome', {
36
37
                blogTitle: 'Blog',
38
                articles: articles,
                moment: moment
39
40
            });
        });
41
42
    });
43
44
   /**
     * Route for viewing an article.
45
     * @name get/reader/article/:id
46
     * @function
47
     * @memberof module:routers/reader~readerRouter
48
49
50
     * @param {string} path - Express path
51
```

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```
router.get('/article/:id', (req, res) => {
         const articleQuery = "SELECT articles.*, users.user name FROM articles JOIN users ON
53
     articles.author_id = users.user_id WHERE article_id = ?";
         const commentsQuery = "SELECT * FROM comments WHERE article_id = ? ORDER BY created_at
54
    DESC";
         const likesQuery = "SELECT COUNT(*) AS like_count FROM likes WHERE article_id = ?";
55
         const viewsInsertQuery = "INSERT INTO views (article_id, user_id) VALUES (?, ?)";
56
         const viewsUpdateQuery = "UPDATE articles SET views = views + 1 WHERE article_id = ?";
57
         // Database interaction: Fetching the article
58
59
         // Inputs: Article ID from the URL parameters
         // Outputs: Article data if found, else null
60
         global.db.get(articleQuery, [req.params.id], (err, article) => {
61
             if (err)
62
63
             {
64
                 console.error(err);
                 res.status(500).send("Error retrieving article");
65
                 return;
66
67
             if (!req.session.user)
68
69
                 req.session.user = { user_id: null };
70
71
72
             if (!req.session.viewedArticles)
73
74
                 req.session.viewedArticles = [];
75
             if (!req.session.viewedArticles.includes(req.params.id))
76
77
78
                 // Database interaction: Inserting a view into the database
79
                 // Inputs: Article ID from the URL parameters and user ID from the session
80
                 // Outputs: None
                 global.db.run(viewsInsertQuery, [req.params.id, req.session.user ?
81
     req.session.user.user_id : null], (err) => {
                     if (err)
82
83
                     {
84
                         console.error(err);
85
86
                 });
                 // Database interaction: Updating the views count of the article in the database
87
                 // Inputs: Article ID from the URL parameters
88
89
                 // Outputs: None
90
                 global.db.run(viewsUpdateQuery, [req.params.id], (err) => {
91
                     if (err)
                     {
92
                         console.error(err);
93
94
                     }
95
                 });
                 req.session.viewedArticles.push(req.params.id);
96
97
             }
98
             // Database interaction: Fetching the comments of the article
99
             // Inputs: Article ID from the URL parameters
             // Outputs: Comments of the article if found, else null
100
             global.db.all(commentsQuery, [req.params.id], (err, comments) => {
101
                 if (err)
102
```

```
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                                                         reader.js
103
                  {
104
                      console.error(err);
105
                      res.status(500).send("Error retrieving comments");
                      return;
106
107
                  }
108
                  // Database interaction: Fetching the likes count of the article
                  // Inputs: Article ID from the URL parameters
109
                  // Outputs: Likes count of the article
110
                  global.db.get(likesQuery, [req.params.id], (err, likeData) => {
111
112
                      if (err)
113
                      {
114
                          console.error(err);
                          res.status(500).send("Error retrieving likes");
115
116
                          return;
117
                      }
118
                      article.published_at =
     moment(article.published_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss');
119
                      comments.forEach(comment => {
                          comment.created at =
120
     moment(comment.created_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss');
121
                      });
122
                      const likeMessage = req.session.likeMessage;
123
                      req.session.likeMessage = null;
                      res.render('articlePage', {
124
125
                          article: article,
126
                          comments: comments,
127
                          likeCount: likeData.like_count,
128
                          moment: moment,
129
                          likeMessage: likeMessage
130
                      });
131
                  });
              });
132
133
          });
134
     });
135
     /**
136
       * Route for liking an article.
137
138
       * @name post/reader/article/:id/like
139
       * @function
140
       * @memberof module:routers/reader~readerRouter
       * @inner
141
142
       * @param {string} path - Express path
143
      router.post('/article/:id/like', (req, res) => {
144
145
          const userId = req.session.user ? req.session.user.user_id : null;
146
          if (!userId)
147
          {
              req.session.likeMessage = 'Please log in to like articles.';
148
              return res.redirect(`/reader/article/${req.params.id}`);
149
150
          }
151
          const checkLikeQuery = "SELECT COUNT(*) AS count FROM likes WHERE article_id = ? AND
      user id = ?";
          const insertLikeQuery = "INSERT INTO likes (article id, user id) VALUES (?, ?)";
152
```

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```
153
         // Database interaction: Checking if the user has already liked the article and
     inserting a like if not
154
         // Inputs: Article ID from the URL parameters and user ID from the session
155
         // Outputs: None
         global.db.get(checkLikeQuery, [req.params.id, userId], (err, row) => {
156
             if (err)
157
158
             {
159
                 console.error(err);
                 res.status(500).send("Error checking like status");
160
                 return;
161
162
             if (row.count > 0)
163
164
             {
165
                 return res.redirect(`/reader/article/${req.params.id}`);
166
             // Database interaction: Inserting a like into the database
167
             // Inputs: Article ID from the URL parameters and user ID from the session
168
169
             // Outputs: None
             global.db.run(insertLikeQuery, [req.params.id, userId], (err) => {
170
171
                 if (err)
                 {
172
173
                     console.error(err);
                     res.status(500).send("Error liking article");
174
175
                     return:
176
                 }
                 res.redirect(`/reader/article/${req.params.id}`);
177
178
             });
         });
179
180
     });
181
182
183
      * Route for commenting on an article.
184
      * @name post/reader/article/:id/comment
185
      * @function
      * @memberof module:routers/reader~readerRouter
186
187
188
      * @param {string} path - Express path
189
      */
190
     router.post('/article/:id/comment', (req, res) => {
         const query = "INSERT INTO comments (article id, commenter name, comment) VALUES (?, ?,
191
     ?)";
192
         const params = [req.params.id, req.body.commenter_name, req.body.comment];
193
         // Database interaction: Inserting a new comment into the database
         // Inputs: Article ID from the URL parameters, commenter name, and comment from the
194
     request body
195
         // Outputs: None
         global.db.run(query, params, (err) => {
196
             if (err)
197
198
             {
199
                 console.error(err);
                 res.status(500).send("Error adding comment");
200
                 return;
201
202
             res.redirect(`/reader/article/${req.params.id}`);
203
```

```
204 });
205 });
206
207 module.exports = router;
208 // End
```

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#### routes\author.js

```
1 // Start
 2
   const express = require('express');
   const moment = require('moment-timezone');
   const { body, validationResult } = require('express-validator');
   const TIMEZONE = 'Asia/Karachi';
 5
 6
 7
   const router = express.Router();
 8
   /**
 9
     * Route serving the author's home page.
10
11
     * @name get/author
     * @function
12
13
     * @memberof module:routers/author~authorRouter
     * @inner
14
15
     * @param {string} path - Express path
16
    router.get('/', (req, res) => {
17
        const queryPublished = `
18
19
            SELECT articles.*, users.user_name
            FROM articles
20
21
            JOIN users ON articles.author id = users.user id
            WHERE published_at IS NOT NULL AND articles.author_id = ?`;
22
        const queryDrafts = `
23
            SELECT articles.*, users.user_name
24
            FROM articles
25
26
            JOIN users ON articles.author_id = users.user_id
27
            WHERE published at IS NULL AND articles.author id = ?`;
28
        const querySettings = "SELECT * FROM settings WHERE author_id = ?";
29
        // Database interaction: Fetching published articles, drafts & any settings of the
    current user
        // Inputs: User ID from the session
30
31
        // Outputs: Published articles, drafts & any setting of the current user
        global.db.all(queryPublished, [req.session.user.user id], (err, publishedArticles) => {
32
            if (err) throw err;
33
            global.db.all(queryDrafts, [req.session.user.user_id], (err, draftArticles) => {
34
                if (err) throw err;
35
                global.db.get(querySettings, [req.session.user.user id], (err, settings) => {
36
37
                    if (err) throw err;
38
                    publishedArticles.forEach(article => {
39
                        article.created at =
    moment(article.created_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss');
40
                        article.updated_at =
    moment(article.updated at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss');
41
                        article.published at =
    moment(article.published_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss');
42
                    draftArticles.forEach(article => {
43
                        article.created_at =
44
    moment(article.created_at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss');
45
                        article.updated at =
    moment(article.updated at).tz(TIMEZONE).format('YYYY-MM-DD HH:mm:ss');
                    });
```

```
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                                                          author.js
 47
                      res.render('authorHome', {
 48
                           publishedArticles: publishedArticles,
                           draftArticles: draftArticles,
 49
                           TIMEZONE: TIMEZONE,
 50
 51
                           moment: moment,
 52
                           blogTitle: settings ? settings.blog_title : 'Set your Blog Title in
      Settings',
 53
                           authorName: settings ? settings.author_name : 'Default Author Name',
                           publishMessage: res.locals.publishMessage
  54
 55
                      });
                  });
  56
              });
  57
 58
          });
 59
      });
  60
      /**
  61
       * Route for creating a new draft.
  62
 63
       * @name post/author/create-draft
 64
       * @function
       * @memberof module:routers/author~authorRouter
 65
       * @inner
  66
       * @param {string} path - Express path
  67
  68
      router.post('/create-draft', (reg, res) => {
 69
 70
          if (!req.session.user || !req.session.user.user_id)
 71
              res.status(401).send("Unauthorized");
 72
  73
              return;
 74
          }
 75
          const query = "INSERT INTO articles (title, content, author_id) VALUES (?, ?, ?)";
          const params = ['New Draft', '', req.session.user.user_id];
 76
          // Database interaction: Inserting a new draft into the database
 77
 78
          // Inputs: Title, content, and author ID
 79
          // Outputs: None
          global.db.run(query, params, function(err)
 80
 81
              if (err)
 82
              {
 83
                  console.error(err);
 84
                  res.status(500).send("Error creating draft");
 85
 86
 87
              res.redirect(`/author/edit/${this.lastID}`);
 88
 89
          });
 90
      });
 91
      /**
 92
 93
       * Route for editing an article.
 94
       * @name get/author/edit/:id
       * @function
 95
       * @memberof module:routers/author~authorRouter
 96
       * @inner
 97
  98
       * @param {string} path - Express path
```

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```
100
     router.get('/edit/:id', (req, res) => {
         const query = "SELECT * FROM articles WHERE article_id = ? AND author_id = ?";
101
102
         // Database interaction: Fetching the article to be edited
103
         // Inputs: Article ID from the URL parameters and author ID from the session
104
         // Outputs: Article data if found, else null
105
         global.db.get(query, [req.params.id, req.session.user.user_id], (err, article) => {
106
107
             {
108
                 console.error(err);
109
                 res.status(500).send("Error retrieving article");
110
                 return;
111
             res.render('editArticle', { article: article, errors: [] });
112
113
         });
114
     });
115
116
     /**
117
      * Route for updating an article.
      * @name post/author/edit/:id
118
119
      * @function
120
      * @memberof module:routers/author~authorRouter
121
      * @inner
122
      * @param {string} path - Express path
      * @param {function} middleware - Express middleware
123
124
      */
125
     router.post('/edit/:id', [
         body('title').notEmpty().withMessage('Title is required'),
126
127
         body('content').notEmpty().withMessage('Content is required')
128
     ],
129
         (req, res) => {
             const errors = validationResult(req);
130
             if (!errors.isEmpty())
131
132
             {
                 const query = "SELECT * FROM articles WHERE article_id = ? AND author_id = ?";
133
                 // Database interaction: Fetching the article to be updated
134
135
                 // Inputs: Article ID from the URL parameters and author ID from the session
136
                 // Outputs: Article data if found, else null
137
                 global.db.get(query, [req.params.id, req.session.user.user_id], (err, article)
     => {
                     if (err)
138
139
                     {
140
                         console.error(err);
141
                         res.status(500).send("Error retrieving article");
                         return;
142
                     }
143
                     res.render('editArticle', {
144
145
                         article: article,
146
                         errors: errors.array()
147
                     });
148
                 });
149
                 return;
150
151
             const query = "UPDATE articles SET title = ?, content = ?, updated at =
     CURRENT_TIMESTAMP WHERE article_id = ? AND author_id = ?";
```

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```
152
             const params = [req.body.title, req.body.content, req.params.id,
     req.session.user.user_id];
             // Database interaction: Updating the article in the database
153
             // Inputs: Title, content, article ID from the URL parameters, and author ID from
154
     the session
             // Outputs: None
155
             global.db.run(query, params, (err) => {
156
157
                 if (err)
158
                 {
                     console.error(err);
159
160
                     res.status(500).send("Error updating article");
                     return;
161
162
                 res.redirect('/author');
163
164
             });
165
         });
166
     /**
167
168
      * Route for publishing an article.
      * @name post/author/publish/:id
169
170
      * @function
171
      * @memberof module:routers/author~authorRouter
172
      * @inner
173
      * @param {string} path - Express path
174
175
     router.post('/publish/:id', (req, res) => {
176
         const query = "SELECT title, content FROM articles WHERE article_id = ? AND author_id =
     ?":
177
         // Database interaction: Fetching the title and content of the article to be published
178
         // Inputs: Article ID from the URL parameters and author ID from the session
         // Outputs: Title and content of the article if found, else null
179
180
         global.db.get(query, [req.params.id, req.session.user.user_id], (err, article) => {
             if (err)
181
182
183
                 console.error(err);
184
                 res.status(500).send("Error retrieving article");
185
                 return;
186
             if (!article.title || !article.content) {
187
                 req.session.publishMessage = 'Title and content are required to publish the
188
     article.';
189
                 res.redirect('/author');
190
                 return;
191
             const updateQuery = "UPDATE articles SET published at = CURRENT TIMESTAMP WHERE
192
     article_id = ? AND author_id = ?";
             // Database interaction: Updating the published at timestamp of the article in the
193
     database
194
             // Inputs: Article ID from the URL parameters and author ID from the session
195
             // Outputs: None
             global.db.run(updateQuery, [req.params.id, req.session.user.user id], (err) => {
196
                 if (err)
197
198
                 {
199
                     console.error(err);
```

7/15/24, 1:43 PM author.js 200 res.status(500).send("Error publishing article"); 201 return; 202 } 203 res.redirect('/author'); 204 }); 205 }); 206 }); 207 208 /\*\* 209 \* Route for deleting an article. 210 \* @name post/author/delete/:id 211 \* @function 212 \* @memberof module:routers/author~authorRouter 213 \* @inner 214 \* @param {string} path - Express path 215 \*/ 216 router.post('/delete/:id', (req, res) => { 217 const query = "DELETE FROM articles WHERE article\_id = ? AND author\_id = ?"; 218 // Database interaction: Deleting the article from the database 219 // Inputs: Article ID from the URL parameters and author ID from the session // Outputs: None 220 221 global.db.run(query, [req.params.id, req.session.user.user\_id], (err) => { 222 if (err) 223 { 224 console.error(err); res.status(500).send("Error deleting article"); 225 226 return; 227 res.redirect('/author'); 228 229 }); }); 230 231 232 module.exports = router;

233 // End

7/15/24, 1:43 PM auth.js

### routes\auth.js

```
1 // Start
   const express = require('express');
 2
   const bcrypt = require('bcrypt');
   const passport = require('passport');
   const { body, validationResult } = require('express-validator');
   require('dotenv').config();
 6
 7
 8
    const router = express.Router();
9
10
   /**
11
     * Route serving login form.
12
     * @name get/auth/login
13
     * @function
     * @memberof module:routers/auth~authRouter
14
15
     * @inner
     * @param {string} path - Express path
16
     */
17
    router.get('/login', (req, res) => {
18
19
        res.render('login', { errors: [] });
20
    });
21
    /**
22
23
     * Route processing login form.
24
     * @name post/auth/login
     * @function
25
26
     * @memberof module:routers/auth~authRouter
27
     * @inner
28
     * @param {string} path - Express path
29
     * @param {function} middleware - Express middleware
30
     */
    router.post('/login',
31
        body('email').isEmail().withMessage('Enter a valid email').normalizeEmail(),
32
        body('password').notEmpty().withMessage('Password is required').trim().escape(),
33
34
        (req, res) => {
35
            const errors = validationResult(req);
            if (!errors.isEmpty())
36
37
            {
38
                return res.status(400).render('login', { errors: errors.array() });
39
            const { email, password } = req.body;
40
            const query = "SELECT * FROM users WHERE email = ?";
41
42
            // Database interaction: Fetching user with the provided email
            // Inputs: Email provided by the user
43
44
            // Outputs: User data if found, else null
            global.db.get(query, [email], async (err, user) => {
45
                if (err || !user) {
46
                    return res.status(401).render('login', { errors: [{ msg: 'Invalid
47
    credentials' }] });
48
                }
49
                // Compare hashed password for regular users
50
                const passwordMatch = await bcrypt.compare(password, user.password);
                if (passwordMatch)
51
```

```
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                                                          auth.js
 52
                  {
 53
                      req.session.isAuthenticated = true;
 54
                      req.session.user = user;
 55
                      return res.redirect('/author');
 56
                  }
 57
                  else
 58
                      return res.status(401).render('login', { errors: [{ msg: 'Invalid
 59
      credentials' }] });
 60
              });
 61
 62
          });
 63
 64
     /**
 65
       * Route serving register form.
       * @name get/auth/register
 66
 67
       * @function
 68
       * @memberof module:routers/auth~authRouter
 69
       * @inner
 70
       * @param {string} path - Express path
 71
       */
 72
      router.get('/register', (req, res) => {
          res.render('register', { errors: [] });
 73
 74
     });
 75
 76
     /**
 77
       * Route processing register form.
 78
       * @name post/auth/register
 79
       * @function
       * @memberof module:routers/auth~authRouter
 80
 81
       * @inner
 82
       * @param {string} path - Express path
       * @param {function} middleware - Express middleware
 83
 84
       */
 85
     router.post('/register',
          body('user_name').notEmpty().withMessage('User name is required').trim().escape(),
 86
 87
          body('email').isEmail().withMessage('Enter a valid email').normalizeEmail(),
          body('password').isLength({ min: 6 }).withMessage('Password must be at least 6
 88
      characters long').trim().escape(),
 89
          async (req, res) => {
              const errors = validationResult(req);
 90
 91
              if (!errors.isEmpty())
 92
              {
                  return res.status(400).render('register', { errors: errors.array() });
 93
 94
 95
              const { user_name, email, password } = req.body;
 96
              const hashedPassword = await bcrypt.hash(password, 10);
 97
              const query = "INSERT INTO users (user_name, email, password) VALUES (?, ?, ?)";
              // Database interaction: Inserting new user into the database
 98
 99
              // Inputs: User name, email, and hashed password provided by the user
100
              // Outputs: None
101
              global.db.run(query, [user_name, email, hashedPassword], function(err)
102
              {
103
                  if (err)
```

```
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                                                          auth.js
104
                  {
                      return res.status(500).render('register', { errors: [{ msg: 'Error
105
      registering user' }] });
106
                  res.redirect('/auth/login');
107
108
              });
          });
109
110
111
      const GoogleStrategy = require('passport-google-oauth20').Strategy;
112
      passport.use(new GoogleStrategy({
 113
          clientID: process.env.GOOGLE_CLIENT_ID,
          clientSecret: process.env.GOOGLE CLIENT SECRET,
114
          callbackURL: "http://localhost:3000/auth/google/callback" },
115
116
          (accessToken, refreshToken, profile, done) => {
117
          const email = profile.emails[0].value;
          const query = "SELECT * FROM users WHERE email = ?";
118
          // Database interaction: Fetching user with the provided email
119
120
          // Inputs: Email provided by Google OAuth
121
          // Outputs: User data if found, else null
122
          global.db.get(query, [email], (err, user) => {
              if (user)
123
124
              {
                  return done(null, user);
125
126
              }
 127
              else
128
129
                  const newUser = {
130
                      user_name: profile.displayName,
131
                      email: email,
132
                      password: null
133
                  };
                  const insertQuery = "INSERT INTO users (user_name, email, password) VALUES (?,
134
      ?, ?)";
135
                  // Database interaction: Inserting new user into the database
136
                  // Inputs: User name and email provided by Google OAuth
137
                  // Outputs: None
                  global.db.run(insertQuery, [newUser.user name, newUser.email, newUser.password],
138
      function(err)
139
                  {
 140
                      if (err)
 141
                      {
 142
                           return done(err, null);
 143
144
                      newUser.user id = this.lastID;
                      return done(null, newUser);
 145
 146
                  });
 147
              }
 148
          });
149
      }));
150
151
       * Route for Google OAuth.
152
       * @name get/auth/google
 153
 154
       * @function
```

\* @param {function} middleware - Express middleware

req.session.isAuthenticated = true;

const query = "SELECT \* FROM users WHERE user\_id = ?";

// Database interaction: Fetching user with the provided user ID

req.session.user = req.user;

res.redirect('/author');

passport.serializeUser((user, done) => {

passport.deserializeUser((id, done) => {

// Inputs: User ID provided by Passport.js

// Outputs: User data if found, else null
global.db.get(query, [id], (err, user) => {

\* @memberof module:routers/auth~authRouter

\* @param {string} path - Express path

done(null, user.user id);

done(err, user);

passport.authenticate('google', { failureRedirect: '/auth/login' }),

\* @param {string} path - Express path

router.get('/google/callback',

(req, res) => {

169170

171

172

173174

175

176

177

178

179180

181

182

183

184

185

186

187188

189

190 191

192

193

194

195196

197198

199

200

});

\*/

});

});

\* @function

\* @inner

\* Route for logout.

\* @name get/auth/logout

});

/\*\*

```
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                                                           auth.js
 209
              {
                  res.clearCookie('connect.sid'); // Clear the session cookie
 210
                  res.redirect('/auth/login');
 211
 212
              }
          });
 213
 214
      });
 215
 216 | module.exports = router;
 217 // End
```

7/15/24, 1:42 PM main.css

#### public\main.css

```
1 // Start
   /*
2
3
     Note: for styling, I have reused most contents from my Final Assignment of previous module
     named CM1040 Web Development
     Another thing to note is <h1>, <h2> and so on might look disordered in ejs templates & it
     because I have used them in order in CSS instead
6
7
8
9
   /* ------
10
      - Global (like body, navbar, default settings etc) CSS style for all pages
11
      */----*
12
13
   body, html
14
15
     font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
     margin: ∅; /* Remove default margin */
16
     padding: 0; /* Remove default padding */
17
     overflow-x: hidden; /*to prevent any possible horizontal scroll bar*/
18
     background-color:  lightcyan
19
     position: relative; /*stay Relative to its positon*/
20
   }
21
22
23
   /* Making & Adjusting default settings------
24
   /* Paragraphs */
25
26
   р
27
     padding: Opx; /* Remove default padding & margin */
28
     margin: 0;
29
   }
30
31
   /* Links */
32
   li
33
34
     list-style: none; /* Removes default dot on links*/
35
36
   }
37
   li a:hover /*when mouse is dragged on the link*/
38
39
     color: red
40
     text-decoration: underline;
41
42
   }
43
44
   a
45
     text-decoration: none; /* Removes default underline on links*/
46
     color: blue
47
48
   }
49
   a:hover /*when mouse is dragged on the link*/
```

```
51
    {
      color: red
52
      text-decoration: underline;
53
    }
54
55
    /* Button */
56
    button
57
58
      font-weight: bolder; /*weight of texts on buttons*/
59
      background-color: ☐ white /*BG color of buttons*/
60
      color: #3db8c0; /*color of texts on buttons*/
61
      border: 1px solid #4d388b; /*border size & color*/
62
      cursor: pointer; /*To make buttons look clickable*/
63
64
    }
65
    button:hover /*when mouse is dragged on the button*/
66
67
      background-color: rgb(221, 221, 221); /*BG color of buttons*/
68
69
    }
70
    button:active /*when mouse is clicked on the button*/
71
72
      background-color: #ffe7c2; /*BG color of buttons*/
73
 74
    }
75
    /* NAVBAR-----*/
76
77
    .navbar
78
      position: fixed; /*sticky navbar*/
79
80
      z-index: 9999; /*To make the navbar always appear first*/
81
      top: 0;
      width: 100%;
82
      background-color: #3db8c0;
83
      padding: 30px;
84
      text-align: center;
85
      box-shadow: 5px 4px 20px grey; /* shadow effect from below*/
86
87
    }
88
89
    h1
90
91
      margin: 0;
92
      font-size: 36px;
      color: white
93
      text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.5); /* shadow effect to the text */
94
      transition: color 0.3s ease; /* smooth transition effect to the text color on mouse drag*/
95
96
    }
97
    h1:hover
98
99
      color: #ff9900; /* Changes the text color when mouse is dragged over h1*/
100
    }
101
102
103
    /* NAVBAR links */
104
    nav ul li
```

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```
display: inline; /*Horizontal display of text*/
106
     margin-right: 20px; /*Space between links*/
107
108
    }
109
110
    nav ul li a
111
     color: ☐ white /*Non-active links color*/
112
     font-size: 20px; /*Non-active links size*/
113
114
     transition: color 0.3s ease;
115
     display: inline-block; /* Ensure links are displayed */
116
117
118
    nav ul li a:hover /*when mouse is dragged over links*/
119
     color: #ff9900; /* Changes the text color of the navbar links from blue */
120
     text-decoration: none; /*remove default underline decoration*/
121
     font-weight: bolder; /*Make text bolder*/
122
123
    }
124
125
    nav ul li.active /*active links size & weight*/
126
     color: □ white
127
     font-size: 25px;
128
     font-weight: bolder;
129
130
    }
131
132
    /* -----
133
      - articlePage.ejs CSS style
134
      */----*
135
    .p-article /*article blog content*/
136
137
    {
     font-weight: bolder;
138
139
     font-size: 20px;
     color: rgb(43, 0, 160);
140
     line-height: 1.4;
141
142
    }
143
    .article-info /*when was article published, how many likes & views it have*/
144
145
     font-size: 20px;
146
     font-weight: bolder;
147
     color: #000000;
148
149
     line-height: 1.5;
150
    }
151
152
    /* -----
153
      - authorHome.ejs CSS style
      */----*/
154
155
    .published-articles, .draft-articles /* 2 contents (published, draft)*/
156
157
    {
     border: 1px solid #4d388b; /*border size & color*/
```

7/15/24, 1:42 PM main.css

```
159
     border-radius: 10px; /*rounded corners of border*/
160
     margin: 3% 5% auto; /*3% sets the top margin, 5% sets the right & left margins, & auto
    sets the bottom margin*/
     padding: 10px; /* Optional: Add some spacing between articles */
161
162
    }
163
    .line-between-publish-and-draft /*vertical line separating 2 articles content*/
164
165
     border-left: 1px solid #007e92;
166
167
    }
168
    /*Display a message if publish button is clicked with empty title and/or content*/
169
    .blog-articles .publish-message
170
171
172
     font-weight: normal;
     color: #000;
173
     margin-right: 25%;
174
175
     font-size: 15px;
176
    }
177
178
    /* -----
179
      - editArticle.ejs CSS style
180
      -----*/
181
182
    .editArticle-field /*text fields & save button*/
183
     position: relative;
184
     width: 10%;
185
186
     display: grid;
     grid-gap: 5px; /*Vertical gap*/
187
     text-align: left;
188
     color: #000;
189
190
    }
191
192
    /* -----
      - login.ejs CSS style
193
194
      - register.ejs CSS style
      */
195
196
    .login-form
197
198
    {
199
     position: relative;
     margin: 13% 30% 1% 41%; /* To adjust it in center */
200
     width: 10%;
201
     display: grid;
202
     grid-gap: 10px; /*Vertical gap*/
203
     text-align: center;
204
205
     padding: 70px;
     color: #000;
206
207
     border: 1px solid #4d388b; /*border size & color*/
     border-radius: 8px; /*rounded corners*/
208
209
    }
210
    .login-form button, .register-form button
```

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```
212
213
       font-weight: bolder;
       background-color: #3db8c0;
214
       color: White
215
216
       border: none;
217
       cursor: pointer;
218
       width: 80%; /*width size*/
219
       font-size: 100%;
       padding: 10px 10px; /*overall size*/
220
      margin: 8px 0; /*a top & bottom margin of 8px, a left & right margin of 0 */
221
       border: none; /*remove default border*/
222
223
       border-radius: 10px; /*corner roundness*/
224
     }
225
     /* Styles for the submit button when mouse is dragged over it*/
226
     .login-form button:hover, .register-form button:hover
227
228
229
       background-color: rgb(1, 98, 113); /*buttons BG color*/
230
     }
231
232
     /* Styles for the submit button when clicked */
233
     .login-form button:active, .register-form button:active
234
       background-color: #ff9900; /*buttons BG color*/
235
236
     }
237
238
    h2 /*register title*/
239
240
       color: #007e92;
241
       font-size: 20px;
242
       margin-top: 0;
243
     }
244
245
     .register-form
246
247
       position: relative;
      margin: 11% 30% 1% 43%; /* To adjust it in center */
248
249
      width: 10%;
       display: grid;
250
       grid-gap: 10px; /*Vertical gap*/
251
252
       text-align: center;
253
       padding: 50px;
       color: #000;
254
255
       border: 1px solid #4d388b; /*border size & color*/
256
       border-radius: 8px; /*rounded corners*/
257
     }
258
259
    #loginError-text, #registerError-text
260
261
      width: 80%; /*border width*/
      margin: 20px auto 0; /*a top margin of 20px, horizontally center it & has a bottom margin
262
       font-weight: bolder; /*text weight & color*/
263
       color: red
264
```

7/15/24, 1:42 PM 265 border: 1px solid #4d388b; /\*border size & color\*/ border-radius: 10px; /\*rounded corners of border\*/ 266 padding: 10px 10px; /\*overall space added for text\*/ 267 268 } 269 270 271 readerHome.ejs CSS style 272 \*/----\*/ 273 274 h3 /\*titles of every published articles in article-item\*/ 275 276 font-size: 20px; margin-bottom: 10px; 277 278 } 279 280 .article-item /\*Display list of articles if published\*/ 281 282 display: inline-grid; grid-template-rows: 1fr; 283 284 grid-auto-flow: column; 285 grid-gap: 10px; 286 position: relative; 287 margin: 13% auto auto 0.3%; /\*13% sets the top margin, auto sets the right & bottom margins & 0.3% sets the left margin.\*/ 288 border: 1px solid #4d388b; /\*border size & color\*/ 289 border-radius: 10px; /\*rounded corners of border\*/ padding: 5px; 290 291 } 292 293 .no-article-item /\*otherwise display a message saying No articles to display \*/ 294 295 position: relative; 296 top: 100%; /\* position 100% below its original position \*/ 297 margin: 13% auto auto 3%; /\*13% sets the top margin, auto sets the right & bottom margins, & 3% sets the left margin\*/ 298 } 299 300 /\* -----301 - authorHome.ejs CSS style - mainHome.ejs CSS style 302 \*/----\*/ 303

```
304
     /*display welcome message in mainHome & article (published, draft) contents in authorHome in
305
     columns*/
306
     .main-blog-articles
307
308
      display: grid;
309
       grid-auto-flow: column;
310
      margin-top: 200px;
311
     }
312
     /*Overall space for welcome message in mainHome & article (published, draft) contents in
313
     authorHome */
314
     .blog-articles
```

```
315
    {
      padding: 8px 32px 8px 32px; /*to adjust it in center*/
316
317
318
    }
319
320
    h4 /*title for welcome message in mainHome & article (published, draft) in authorHome */
321
322
     font-size: 32px;
     text-align: center;
323
     font-weight: bolder;
324
325
     color: rgb(127, 85, 243);
326
     margin: 0px;
327
    }
328
    .blog-articles p /*p below welcome message in mainHome &, in publish & draft article
329
    contents in authorHome*/
330
331
     font-weight: bolder;
     font-size: 20px;
332
333
     color: rgb(127, 85, 243);
     margin: 0;
334
335
     text-align: center;
336
337
338
    /* -----
339
      - articlePage.ejs CSS style
      - editArticle.ejs CSS style
340
341
      */
342
343
    .article-container /*1 container in articlePage & other in editArticle*/
344
     margin-bottom: 40px;
345
      padding: 20px;
346
347
      border: 1px solid #4d388b;
348
      border-radius: 8px;
349
     width: auto;
350
    }
351
352
    h5 /* 'Edit Article' title displayed in editArticle & display titles set by authors in
    articlePage */
353
    {
      color: white
354
     font-size: 30px;
355
     font-weight: bolder;
356
357
     text-align: center;
358
      background-color: rgb(0,126,146);
      padding: 5px;
359
     margin: -20px -20px 15px;
360
      border-radius: 8px 8px 0 0;
361
362
    }
363
364
    /* -----
365
       - articlePage.ejs CSS style
366
       - editArticle.ejs CSS style
```

```
- settingPage.ejs CSS style
------**

369

370    .blog-section /*main container for blog article read, edit & settings*/

371    {

        position: relative;

        margin: 15% 12% 0 12%;

374    }

375    // End
```

7/15/24, 1:41 PM confirm.js

### public\confirm.js

```
// Start
 1
 2
 3
        Content-Security-Policy: The page's settings blocked an event handler (script-src-attr)
    from being executed because it violates the following directive: "script-src-attr 'none'"
        Source: confirmAction(event, 'Are you sure you w...
 4
        To avoid the above error messages, I will implement event listeners using JavaScript
 6
    instead of
 7
        using inline event handlers (such as onclick in the HTML)
 8
 9
   // Wait for the DOM content to be fully loaded before executing the script
10
    document.addEventListener('DOMContentLoaded', function ()
11
12
        // Select all elements with class 'publish-button' and store them in publishButtons
13
    array
        const publishButtons = document.querySelectorAll('.publish-button');
14
15
        // Select all elements with class 'delete-draft-button' and store them in
16
    deleteDraftButtons array
        const deleteDraftButtons = document.querySelectorAll('.delete-draft-button');
17
18
19
        // Select all elements with class 'delete-published-button' and store them in
    deletePublishedButtons array
        const deletePublishedButtons = document.querySelectorAll('.delete-published-button');
20
21
        // Get the confirmation modal element by its ID
22
        const confirmationModal = document.getElementById('confirmationModal');
23
24
25
        // Get the message element inside the confirmation modal
        const confirmationMessage = document.getElementById('confirmationMessage');
26
27
        // Get the 'Yes' button inside the confirmation modal
28
29
        const confirmYes = document.getElementById('confirmYes');
30
        // Get the 'No' button inside the confirmation modal
31
32
        const confirmNo = document.getElementById('confirmNo');
33
        // Function to show the confirmation modal with a specific message and a callback
34
    function
35
        function showConfirmationModal(message, callback)
36
        {
            // Set the text content of the confirmation message
37
            confirmationMessage.textContent = message;
38
39
40
            // Display the confirmation modal (make it visible)
41
            confirmationModal.style.display = 'block';
42
            // Event listener for the 'Yes' button click
43
            confirmYes.onclick = function ()
44
45
            {
                // Invoke the callback with true when 'Yes' is clicked
46
```

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```
47
                callback(true);
48
                // Hide the confirmation modal
                confirmationModal.style.display = 'none';
49
            };
50
51
            // Event listener for the 'No' button click
52
53
            confirmNo.onclick = function ()
54
                // Invoke the callback with false when 'No' is clicked
55
                callback(false);
56
                // Hide the confirmation modal
57
                confirmationModal.style.display = 'none';
58
59
            };
60
        }
61
        // Loop through each publish button in the publishButtons array
62
        publishButtons.forEach(button => {
63
            // Add click event listener to each publish button
64
            button.addEventListener('click', function (event)
65
66
            {
                // Prevent default form submission behavior
67
68
                event.preventDefault();
69
70
                // Get the form ID from the dataset attribute of the clicked button
                const formId = event.target.dataset.formId;
71
72
                // Display confirmation modal with message and define callback function
73
74
                showConfirmationModal('Are you sure you want to publish this draft?', function
    (confirmed)
75
                {
76
                    // If user confirms (callback returns true), submit the form with the
    corresponding ID
77
                    if (confirmed)
78
79
                         document.getElementById(formId).submit();
                    }
80
81
                });
82
            });
        });
83
84
        // Similar logic for delete draft buttons
85
86
        deleteDraftButtons.forEach(button => {
            button.addEventListener('click', function (event)
87
            {
88
89
                event.preventDefault();
90
                const formId = event.target.dataset.formId;
                showConfirmationModal('Are you sure you want to delete this draft?', function
91
    (confirmed)
92
                {
93
                    if (confirmed)
94
95
                         document.getElementById(formId).submit();
96
                    }
                });
```

```
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                                                          confirm.js
  98
              });
 99
          });
 100
 101
          // Similar logic for delete published buttons
 102
          deletePublishedButtons.forEach(button => {
              button.addEventListener('click', function (event)
 103
 104
              {
 105
                  event.preventDefault();
 106
                  const formId = event.target.dataset.formId;
 107
                   showConfirmationModal('Are you sure you want to delete this article?', function
      (confirmed)
108
                   {
 109
                       if (confirmed)
 110
 111
                           document.getElementById(formId).submit();
 112
                  });
 113
              });
 114
 115
          });
 116
      });
```

// End

117

7/15/24, 1:40 PM setUser.js

# middleware\setUser.js

```
1 // Start
2
   /**
3
     * Middleware to set the user object in the response locals.
    * If the user is authenticated, it sets the user object in the response locals.
5
     * If the user is not authenticated, it sets the user object in the response locals to null.
     * If there is a publishMessage in the session, it sets the publishMessage in the response
6
    locals and clears it from the session.
7
8
     * @function
9
     * @param {Object} req - Express request object
10
     * @param {Object} res - Express response object
     * @param {function} next - Express next middleware function
11
12
     * @property {boolean} req.session.isAuthenticated - Indicates if the user is authenticated
13
     * @property {Object} req.session.user - The authenticated user's session data
     * @property {string} req.session.publishMessage - The message to be published
14
15
     * @property {Object} res.locals.user - The authenticated user's local data
     * @property {string} res.locals.publishMessage - The message to be published
16
17
18
   module.exports = function(req, res, next)
19
20
        if (req.session.isAuthenticated)
21
22
            // Purpose: To set the user's session data in the response locals
23
            // Inputs: User's session data
            // Outputs: User's local data
24
25
            res.locals.user = req.session.user || { user_name: 'Guest' };
26
        }
27
        else
28
        {
29
            // Purpose: To clear the user's local data if not authenticated
30
            // Inputs: None
31
            // Outputs: User's local data set to null
            res.locals.user = null;
32
33
34
        if (req.session.publishMessage) {
            // Purpose: To set the publish message in the response locals and clear it from the
35
    session
            // Inputs: Publish message from the session
36
37
            // Outputs: Publish message in the response locals
38
            res.locals.publishMessage = req.session.publishMessage;
            req.session.publishMessage = null;
39
40
        }
        next();
41
42
43 // End
```

7/15/24, 1:40 PM auth.js

# middleware\auth.js

```
1 // Start
2
   /**
3
    * Middleware to check if the user is authenticated.
    * If the user is authenticated, it sets the user object in the response locals and calls the
    next middleware.
    * If the user is not authenticated, it redirects the user to the login page.
5
6
7
     * @function
8
     * <code>@param {Object} req - Express request object</code>
9
     * @param {Object} res - Express response object
     * @param {function} next - Express next middleware function
10
     * @property {boolean} req.session.isAuthenticated - Indicates if the user is authenticated
11
     * \parbox{Oproperty} {Object} req.session.user - The authenticated user's session data
12
13
     * @property {Object} res.locals.user - The authenticated user's local data
14
15
   module.exports = function(req, res, next)
16
17
        if (req.session.isAuthenticated)
18
19
            // Purpose: To set the user's session data in the response locals
20
            // Inputs: User's session data
21
            // Outputs: User's local data
22
            res.locals.user = req.session.user;
23
            next();
        }
24
25
        else
26
        {
27
            // Purpose: To redirect unauthenticated users to the login page
28
            // Inputs: None
            // Outputs: Redirection to '/auth/login'
29
30
            res.redirect('/auth/login');
31
        }
32
   };
33 // End
```