```
INDEX.JS START
______
  * index.js
  * This is your main app entry point
  */
  // Set up express, bodyparser and EJS
const express = require('express');
const session = require("express-session");
const app = express();
const port = 3000:
var bodyParser = require("body-parser");
app.use(bodyParser.urlencoded({ extended: true }));
app.set('view engine', 'ejs'); // set the app to use ejs for rendering
app.use(express.static( dirname + '/public')); // set location of static files
                                    MY CODE START
app.use(session({
  secret: "]c7)R5%!*bzZ|#jVNEoJ~3!yB|.r~~cDjP6@<ljUZ3rjnvRlg2!5'Qas,N5!yCJ",
  resave: true.
  saveUninitialized: true,
  cookie: {
    // maxAge is milloseconds, so here we do 60 seconds (60 * 1000)
    // and then we multiply by 60 again so the cookie lasts 1 hour
    maxAge: 60 * 60 * 1000,
  }
}));
                                     MY CODE END
// Set up SQLite
// Items in the global namespace are accessible throughout the node application
const sqlite3 = require('sqlite3').verbose();
global.db = new sqlite3.Database('./database.db',function(err){
  if(err){
    console.error(err);
    process.exit(1); // bail out we can't connect to the DB
```

```
} else {
   console.log("Database connected");
   global.db.run("PRAGMA foreign keys=ON"); // tell SQLite to pay attention to foreign key
constraints
 }
});
// Handle requests to the home page
app.get('/', (req, res) => {
 res.render("home.ejs");
});
// Add all the route handlers in usersRoutes to the app under the path /users
const usersRoutes = require('./routes/users');
const authorRoutes = require('./routes/author');
const readerRoutes = require('./routes/reader');
app.use('/users', usersRoutes);
app.use('/author', authorRoutes);
app.use('/reader', readerRoutes);
// Make the web application listen for HTTP requests
app.listen(port, () => {
 console.log(`Example app listening on port ${port}`)
})
______
                             INDEX.JS END
______
______
                           ROUTES/USERS.JS
______
/**
* users.js
* Used for managing user login, banning, deleting etc, anything to do with
  * users
* NB. it's better NOT to use arrow functions for callbacks with the SQLite library
*/
const express = require("express");
```


MY CODE START

const router = express.Router();
const bcrypt = require("bcrypt");
/**
* @desc Everything to do with adding, removing or editing users is here.
* These are all post requests as we have no user page
*/
H
router.get("/login", (req, res) => {
res.render("login.ejs");
});
router.get("/register", (req, res) => { res.render("register.ejs");
});
/**
* @desc clears the users session, logging them out
*
*/
H
router.post("/logout", (req, res, next) => {
req.session.destroy((err) => {
if (err) {
console.error(err);
} else {
res.redirect("/users/login");
} }
}); }
}); /**
/** * @dood Logg the uper in if they provide the correct upername and password
* @desc Logs the user in if they provide the correct username and password

```
* combination
*/
const genericLoginError = "Invalid username or password";
router.post("/login", (req, res, next) => {
  const username = req.body?.username;
  const password = req.body?.password;
  if (!username || !password) {
     return res.status(401).send(genericLoginError);
  }
  const query parameters = [username];
  let query = "SELECT * FROM users WHERE username = ?;";
  global.db.get(query, query_parameters, function (err, user) {
     if (err) {
       next(err); //send the error on to the error handler
     } else {
       if (!user) {
          return res.status(401).send(genericLoginError)
       }
       const hash = user.password;
       bcrypt.compare(password, hash, function(err, result) {
          if (result) {
            // give them a cookie to allow them to access each page
            req.session.user = {
               user_id: user.user_id,
               username: user.username
            };
            res.redirect("/author");
         } else {
            return res.status(401).send(genericLoginError);
         }
       });
  });
});
* @desc Add a new user to the database based on data from the submitted form
router.post("/add-user", (req, res, next) => {
  const blogTitle = req.body?.blog_title;
  const authorName = req.body?.author_name;
  const username = req.body?.username;
  const password = req.body?.password;
```

```
const confirmPassword = req.body?.confirm password;
  // ensure all fields are filled in
  if (!username || !password || !authorName || !blogTitle || !confirmPassword) {
     return res.status(401).send("Please fill out all fields");
  };
  if (password !== confirmPassword) {
     return res.status(401).send("Your passwords do not match, please try again.");
  }
  const saltRounds = 10;
  bcrypt.hash(password, saltRounds, function(err, hash) {
     let query = "SELECT * FROM USERS WHERE username = ?;"
     query parameters = [username];
     // check to ensure that the username isn't taken;
     global.db.all(query, query_parameters,
       function (err, rows) {
          if (err) next(err); //send the error on to the error handler
          else if(rows.length != 0) return res.status(401).send("Username has already been
taken"):
       });
     query = "INSERT INTO users (username, password, author name) VALUES (?, ?, ?);";
     query_parameters = [username, hash, authorName];
     // Execute the query and send a confirmation message
     global.db.run(query, query parameters, function (err) {
       if (err) next(err); //send the error on to the error handler
       else {
          // add the users blog settings
          query = "INSERT INTO blogs (user id, blog title, author name) VALUES (?, ?, ?);";
          query_parameters = [this.lastID, blogTitle, authorName];
          // Execute the guery and send a confirmation message
          global.db.run(query, query_parameters,
          function (err) {
            if (err) next(err);
          });
          next();
          res.redirect("/users/login");
    });
  })
});
```

```
// Export the router object so index.js can access it
module.exports = router;
______
                              USERS.JS END
______
______
                        ROUTES/AUTHOR.JS START
______
* author.js
* Used for managing authors adding, removing, publishing, editing, articles *
*/
const express = require("express");
const router = express.Router();
// redirect the user to the login page if they aren't authorized
function unauthorized(req, res) {
 if (!req.session?.user) {
   // redirect them to the login page if they aren't authenticated
   res.redirect("/users/login");
   return true; // and ensure that we return true, since this user
          // is unauthorized
 }
 return false;
}
  * @Display this authors home page with their articles
 */
router.get("/", (req, res, next) => {
 if (unauthorized(req, res)) return;
 let query = "SELECT * FROM articles WHERE user id = ? ORDER BY last modified DESC;";
 const userId = req.session.user.user_id;
 // ensure this user is authorized to come here
 // execute sql query
 global.db.all(query, [userId], function(err, articles) {
   if (err) {
     next(err);
```

```
} else {
       query = "SELECT * FROM blogs WHERE user_id = ?;";
       global.db.get(query, [userId], function(err, blog) {
          if (err) {
             next(err);
          }
          res.render("author-home", {
             articles: articles,
             blog: blog,
             user: req.session.user,
          });
       });
     }
  })
});
/**
* @The author settings page where the author can change the blogs title and author
* name and other settings
* */
router.get("/settings", (req, res, next) => {
  // ensure this user is authorized to come here
  if (unauthorized(reg, res)) return;
  const userId = req.session.user.user_id;
  const query = "SELECT * FROM blogs WHERE user id = ?;";
  global.db.get(query, [userId], function(err, blog) {
     if (err) {
       next(err);
     } else {
       res.render("author-settings.ejs", { blog: blog });
     }
  })
});
* @The author settings page where the author can change the blog title and author
* name and other settings. Posting to this actually changes the settings
router.post("/settings", (reg, res, next) => {
  // ensure this user is authorized to come here
  if (unauthorized(req, res)) return;
  const query = "UPDATE blogs SET blog title = ?, author name = ? WHERE user id = ?"
```

```
const blogTitle = req.body.blog title;
  const authorName = req.body.author_name;
  const queryParams = [blogTitle, authorName, req.session.user.user_id];
  global.db.run(query, queryParams, function(err) {
     if (err) {
       next(err);
     } else {
       // after we save the settings we redirect the user to the author
       // home
       res.redirect("/author");
     }
  });
});
* @The author edit page where the author can amend and publish individual
  * articles
* */
router.get("/edit/:articleId", (req, res, next) => {
  // ensure this user is authorized to come here
  if (unauthorized(req, res)) return;
  const articleId = req.params.articleId;
  if (isNaN(parseInt(articleId))) {
     res.redirect("/author");
  global.db.get(`SELECT * FROM articles WHERE article id = ${articleId}`, function(err, row) {
     if (err) {
       next(err);
     } else if (row == undefined) {
       // REDIRECT TO SOME SORT OF ERROR PAGE HERE
       // REDIRECT TO SOME SORT OF ERROR PAGE HERE
       res.redirect("/author");
       next();
     } else {
       res.render("author-edit.ejs", { article: row });
       next();
     }
  });
});
* @ When first creating a new draft, we create a empty article post
```

```
* */
router.post("/add-draft", (req, res, next) => {
  // ensure this user is authorized to come here
  if (unauthorized(req, res)) return;
  global.db.get("SELECT datetime('now', 'localtime') AS currDateTime", function(err, time) {
     if (err) {
       next(err); //send the error on to the error handler
    } else {
       global.db.get("SELECT author name FROM users WHERE user id = ?",
          [req.session.user.user_id],
          function(err, userData) {
          const query = "INSERT INTO articles \
          (user id, author name, created, last modified, title, body, published) \
          VALUES (?, ?, ?, ?, ?, ?, ?)";
          const user id = req.session.user.user id
          const author_name = userData.author_name;
          const created = time.currDateTime;
          const lastModified = time.currDateTime;
          const articleTitle = req.body.article_title;
          const articleBody = req.body.article body;
          const published = "";
          const query_parameters = [
             user_id,
             author name,
             created,
            lastModified,
             articleTitle,
             articleBody,
             published
          ];
          global.db.run(query, query_parameters,
          function (err) {
            if (err) {
               next(err); //send the error on to the error handler
            } else {
               res.redirect(\'/author/edit/\${this.lastID}\');
               next();
            }
          });
       });
```

```
}
  })
})
* @ Deletes a post at the given article id
* */
router.post("/delete/:articleId", (req, res, next) => {
  // ensure this user is authorized to come here
  if (unauthorized(req, res)) return;
  const articleId = req.params.articleId;
  if (isNaN(parseInt(articleId))) {
     res.redirect("/author");
  }
  global.db.run("DELETE FROM articles WHERE article_id = ?", [articleId], function(err) {
     if (err) {
        next(err);
     } else {
        res.redirect("/author");
  });
});
* @ Edits the contents of a given articleID
router.post("/edit/:articleId", (req, res, next) => {
  // ensure this user is authorized to come here
  if (unauthorized(reg, res)) return;
  const articleId = req.params.articleId;
  //ensure the article id is a valid number
  if (isNaN(parseInt(articleId))) {
     res.redirect("/author");
  }
  global.db.get("SELECT datetime('now', 'localtime') AS currDateTime", function(err, time) {
     global.db.get(`SELECT * FROM articles WHERE article_id = ?`,
        [articleId],
        function(err, row) {
        if (err) {
          next(err);
        } else if (row == undefined) {
```

```
res.redirect("/author");
          next();
       } else {
          const query = "UPDATE articles SET \
          last modified = ?,\
          title = ?,\
          body = ?,\
          published = ?\
          WHERE article id = ?"
          const lastModified = time.currDateTime;
          const articleTitle = req.body.article_title;
          const articleBody = req.body.article_body;
          const published = "";
          const query_parameters = [
             lastModified,
             articleTitle,
             articleBody,
             published,
             articleId];
          global.db.run(query, query_parameters, function (err) {
             if (err) {
               next(err); //send the error on to the error handler
                res.redirect("/author"); next();
             }
          });
       }
     });
  });
});
* @desc when the user publishes an article we call this function. It changes
  * the article from draft to published, giving it a publish date. Once
  * it is published it cannot be unpublished, or edited only deleted
*/
router.post("/publish/:articleId", (req, res, next) => {
  // ensure the user is authorized to come here
  if (unauthorized(req, res)) return;
```

```
const articleId = req.params.articleId;
 //ensure the article id is a valid number
 if (isNaN(parseInt(articleId))) {
   res.redirect("/author");
 }
 global.db.get("SELECT datetime('now', 'localtime') AS currDateTime", function(err, time) {
   global.db.get(`SELECT * FROM articles WHERE article_id = ?`,
   [articleId],
   function(err, row) {
     if (err) {
       next(err);
     } else if (row == undefined) {
       res.redirect("/author");
       next();
     } else {
       const currTime = time.currDateTime;
       global.db.run( `UPDATE articles SET published = ? WHERE article id = ?`,
         [currTime, articleId],
         function (err) {
         if (err) {
           next(err); //send the error on to the error handler
         } else {
           res.redirect("/author"); next();
      });
   });
 });
// Export the router object so index.js can access it
module.exports = router;
______
                         ROUTES/AUTHOR.JS END
______
______
                        ROUTES/READER.JS START
______
* author.js
* Used for managing reader comments, likes, views, and all the reader pages
```

```
*/
const express = require("express");
const router = express.Router();
* @desc The home page for the reader, it shows all the different blogs
  * from all the different authors of the website
router.get("/", (req, res, next) => {
  const query = "SELECT * FROM blogs;"
  global.db.all(query, function(err, blogs) {
     if (err) {
       next(err);
     } else {
       res.render("reader-home", { blogs: blogs });
     }
  });
});
  * @desc Shows all articles for the given blog owner. We use the blog
  * owners user id to keep track of the owners blog
*/
router.get("/blog/:blog owner user id", (reg, res, next) => {
  const blogOwnerUserId = req.params.blog_owner_user_id;
  // select all the articles that the blog owner has published and we sort
  // them so that the most recently published article is on the top
  let query = "SELECT * FROM blogs WHERE user_id = ?;";
  global.db.get(query, [blogOwnerUserId], function(err, blog) {
     if (err) {
       next(err);
     }
     guery = "SELECT * FROM articles WHERE user id = ? AND published <> " ORDER BY
published DESC";
     // execute sql query
     global.db.all(query, [blogOwnerUserId], function(err, articles) {
       if (err) {
          // if we fail to load the articles we just keep the user on the
          // home page
          res.redirect("/reader-home");
       } else {
          res.render("reader-blog.ejs", {
```

```
articles: articles,
             blog: blog
          });
       }
     })
  })
});
  * @desc Shows the given article that has a matching ":articleId"
  * it allows commenting, liking, and viewing of the blog
router.get("/article/:articleId", (req, res, next) => {
  const articleId = req.params.articleId;
  const users IP = req.ip;
  let userLikedPost = false;
  // check whether or not this user has liked the post
  let query = "SELECT ip address FROM article likes WHERE article id = ?";
  global.db.all(query, [articleId], function(err, article_likes) {
     if (err) {
        next(err);
     } else {
       for (const like of article likes) {
          if (like.ip address == users IP) {
             userLikedPost = true;
             break;
          }
       }
        query = "SELECT * FROM articles WHERE article_id = ?";
        // send the user the article information for the given link
        global.db.get(query, [articleId], function(err, article) {
          if (err) {
             next(err);
          }
          query = "SELECT * FROM article comments WHERE article id = ? ORDER BY
created DESC;";
          global.db.all(query, [articleId], function (err, comments) {
             if (err) {
               next(err);
             } else {
               // add one to the number of views for this article if their ip has not
               // visited this page before
                query = "SELECT ip address FROM article views WHERE article id = ?;";
                global.db.all(query, [articleId], function (err, article_views) {
```

```
if (err) {
                     next(err); //send the error on to the error handler
                  }
                  res.render("reader-article", {
                     article: article,
                     userLikedPost: userLikedPost,
                     comments: comments,
                  });
                  // if their ip address is here then we return to not allow another
                  // view to be counted. One view per ip address
                  for (const view of article_views) {
                     if (view.ip address == users IP) {
                       next();
                       return;
                    }
                  // if we reach here hten their ip address has not viewed the post, so
                  // we increase the views by one
                  query = "UPDATE articles SET number of views = number of views + 1
WHERE article id = ?;";
                  global.db.run(query, [articleId], function (err) {
                     if (err) {
                       next(err); //send the error on to the error handler
                     }
                     // add their ip to the article views database
                     query = "INSERT INTO article_views (article_id, ip_address) VALUES (?,
?);";
                     global.db.run(query, [articleId, users_IP], function (err) {
                       if (err) {
                          next(err); //send the error on to the error handler
                       }
                    });
                  });
               });
            }
          });
       });
     }
  });
});
```

```
* @desc Allows the user to like the article specified
*/
router.post("/article/like-article/:articleId", (reg, res, next) => {
  const articleId = req.params.articleId;
  const users_IP = req.ip;
  // add one to the number of views for this article
  let guery = "SELECT ip address FROM article likes WHERE article id = ?";
  global.db.all(query, [articleId], function (err, article_likes) {
     if (err) {
        next(err); //send the error on to the error handler
        query = "UPDATE articles SET number of likes = number of likes + 1 WHERE
article_id = ?;";
        global.db.run(query, [articleId], function (err) {
          if (err) {
             next(err); /*send the error on to the error handler*/
          }
        });
        query = "INSERT INTO article likes (article id, ip address) VALUES (?, ?);";
        global.db.run(query, [articleId, users IP], function(err) {
          if (err) {
             next(err); //send the error on to the error handler
          } else {
             res.redirect("/reader/article/" + articleId);
          }
       });
     }
  });
});
* @desc Allows the user to unlike the article specified
router.post("/article/unlike-article/:articleId", (reg, res, next) => {
  const articleId = req.params.articleId;
  const user_IP = req.ip;
  let query = "UPDATE articles SET number of likes = number of likes - 1 WHERE article id
= ?;";
  // first we remove one like from the page since the user unliked
  global.db.run(query, [articleId], function (err) {
     if (err) {
        next(err); //send the error on to the error handler
     }
```

```
});
  // then we remove the like from the article likes table so that their ip
  // address isn't liking the post
  query = "DELETE FROM article likes WHERE article id = ? AND ip address = ?";
  global.db.run(query, [articleId, user IP], function(err) {
     if (err) {
       next(err);
     } else {
       res.redirect("/reader/article/" + articleId);
  });
});
  * @desc likes the article for the given articleId
router.post("/article/submit-comment/:articleId", (req, res, next) => {
  const articleId = req.params.articleId
  const commenter name = req.body.commenter name;
  const comment = req.body.comment;
  global.db.get("SELECT datetime('now', 'localtime') AS currDateTime", function(err, time) {
     const created = time.currDateTime;
     const guery = "INSERT INTO article comments (created, commenter name, comment,
article_id) VALUES (?, ?, ?, ?);";
     const query params = [created, commenter name, comment, articleId];
     global.db.run(query, query_params, function(err) {
       if (err) {
          next(err);
       } else {
          res.redirect("/reader/article/" + articleId);
     });
  });
});
// Export the router object so index.js can access it
module.exports = router;
```

ROUTES/READER.JS END

```
VIEWS/AUTHOR-EDIT.EJS START
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 k rel="stylesheet" type="text/css" href="/main.css" />
 <title>Author edit</title>
</head>
<body>
 <h1>Author edit page</h1>
 <a href="/author"><button>Home</button></a>
 <form action="/author/edit/<%=article.article_id%>" method="post">
   <h3 id="articleCreated">Created: <%=article.created%></h3>
   <h3 id="articleLastModified">Last modified:<%=article.last modified%></h3>
   <input id="article_title" type="text" name="article_title" placeholder="Article title"
value="<%=article.title%>"></input>
   <br>
   <textarea id="article_body" rows="15" cols="50" name="article_body" placeholder="Article
body..."><%=article.body%></textarea>
   <br>
   <button id="<%=article_article_id%>" type="submit">Submit</button>
 </form>
</body>
</html>
______
                     VIEWS/AUTHOR-EDIT.EJS END
______
______
                    VIEWS/AUTHOR-HOME.EJS START
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

k rel="stylesheet" type="text/css" href="/main.css" />

```
<title>Author Home Page</title>
</head>
<body>
  <a href="/"><button>Front page</button></a>
  <form action="/users/logout" method="post">
    <but/>button>Logout</button>
  </form>
  <h1>Authors Home page</h1>
  <h2>Hello <%=blog.author name%>!</h2>
  <h2>This is the <%=blog.blog_title%> blog</h2>
  <a href="/author/settings"><h3>Settings</h3></a>
  <br>
  <form action="/author/add-draft" method="post">
    <a href="/author/edit"><button>Create new draft</button></a>
  </form>
  <h1><u>Published articles:</u></h1>
    <% articles.forEach(function(article){ %>
         <% if (article.published) { %>
           ">
             <h3><%="Article title: " + article.title %></h3>
             <h3><%="Created: " + article.created %></h3>
             <h3><%="Published: " + article.published %></h3>
             <h3><%="Last modified: " + article.last_modified %></h3>
             <h3>Number of likes: <%=article.number of likes%></h3>
             <h3>Number of views: <%=article.number_of_views%></h3>
             <h3>Sharing link:
                <a href="/reader/article/<%=article.article id%>">
                  <u>localhost:3000/reader/article/<%=article.article_id%></u>
                </a>
             </h3>
             <form action="/author/delete/<%=article.article_id%>" method="post">
                <button class="delete-article-button">Delete/button>
             </form>
           <% } %>
      <% }) %>
    <h1><u>Drafts:</u></h1>
    <% articles.forEach(function(article){ %>
         <%if (!article.published) { %>
```

```
<h3><%="Article title: " + article.title %></h3>
           <h3><%="Created: " + article.created %></h3>
           <h3>Published: never</h3>
           <h3><%="Last modified: " + article.last modified %></h3>
           <form action="/author/publish/<%=article.article_id%>" method="post">
             <button class="publish-article-button">Publish?</button>
           </form>
           <form action="/author/edit/<%=article.article_id%>" method="get">
            <button class="edit-article-button">Edit/button>
           </form>
         <% } %>
     <% }) %>
   </body>
</html>
______
                      VIEWS/AUTHOR-HOME.EJS END
______
______
                    VIEWS/AUTHOR-SETINGS.EJS START
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <link rel="stylesheet" type="text/css" href="/main.css" />
 <title>Author Settings</title>
</head>
<body>
 <h1>Account Settings</h1>
 <a href="/author"><button>Home</button></a>
 <form id="settings-form" action="/author/settings" method="post">
   <h3>Blog name: </h3>
   <input id="blog_title" type="text" name="blog_title" value="<%=blog.blog_title%>">
   <h3>Author name: </h3>
   <input id="author_name" type="text" name="author_name"
value="<%=blog.author name%>">
   <br>
   <button type="submit">Save changes/button>
 </form>
```

```
<script>
   // here we ensure that every field is filled in before submitting.
   // although client side verification could be easily bypassed by simply
   // removing this code, it is not a security risk as it is simply the author
   // name and blog title
   document.getElementById("settings-form").addEventListener("submit", function(event) {
     const fields = ["blog_title", "author_name"];
     for (const field of fields) {
       if (document.getElementById(field).value == "") {
         event.preventDefault();
         document.getElementById("error-message").innerText = "Please fill out all fields
before submitting";
         break;
       }
   });
 </script>
</body>
</html>
______
                    VIEWS/AUTHOR-SETTINGS.EJS END
______
______
                        VIEWS/HOME.EJS START
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 k rel="stylesheet" type="text/css" href="/main.css" />
 <title>Home page</title>
</head>
<body>
 <h1>Home page</h1>
 <a href="/author"><h3>Author Home Page</h3></a>
 <a href="/reader"><h3>Reader Home Page</h3></a>
</body>
```

```
</html>
______
                   VIEWS/HOME.EJS END
______
______
                  VIEWS/LOGIN.EJS START
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 k rel="stylesheet" type="text/css" href="/main.css" />
 <title>Register</title>
</head>
<body>
 <h1>Login below</h1>
 <form action="/users/login" method="post">
  Username: <input id="user" type="text" name="username" />
  Password: <input id="password" type="password" name="password" />
  <button type="submit">login</button>
 </form>
 <h3>Or register!</h3>
 <a href="/users/register">
  <button type="submit">Register</button>
 </a>
</body>
</html>
______
                   VIEWS/LOGIN.EJS END
______
______
               VIEWS/READER-ARTICLE.EJS START
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 k rel="stylesheet" type="text/css" href="/main.css" />
 <title>Reader article</title>
</head>
```

```
<body>
  <h1>Reader article</h1>
  <a href="/reader/blog/<%=article.user id%>"><button>Go back</button></a>
  <h2 id="article_title" type="text" name="article_title" placeholder="Article title">Title:
<%=article.title%></h2>
  <h3 id="author_name">Author_name: <%=article.author_name%></h3>
  <h3 id="articlePublished">Published: <%=article.published%></h3>
  <br>
  <%=article.body%>
  <br>
  <h3 id="number of views">number of views: <%=article.number of views%></h3>
  <h3 id="number_of_likes">number of likes: <%=article.number_of_likes%></h3>
  <%if (userLikedPost) {%>
  <form action="/reader/article/unlike-article/<%=article.article_id%>" method="post">
    <button>Unlike the article/button>
  </form>
  <%} else {%>
  <form action="/reader/article/like-article/<%=article.article id%>" method="post">
    <but/>button>Like the article</button>
  </form>
  <%}%>
  <form action="/reader/article/submit-comment/<%=article.article id%>" method="post">
    <input id="commenter" name "name="commenter" name "placeholder="Your
name"></input>
    <textarea id="comment" rows="15" cols="50" name="comment" placeholder="Your
comment..."></textarea>
    <button>Submit Comment</button>
  </form>
    <% comments.forEach(function(comment){ %>
    <h3><%=comment.commenter name%></h3>
    <%=comment.comment%>
  <% }) %>
</body>
</html>
______
                       VIEWS/READER-ARTICLE.EJS END
______
```

VIEWS/READER-BLOG.EJS START

```
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 k rel="stylesheet" type="text/css" href="/main.css" />
 <title>Reader Blog</title>
</head>
<body>
 <h1>Reader Blog</h1>
 <h2>This is the <u><%=blog.blog title%></u> blog</h2>
 <a href="/reader"><button>Reader Home</button></a>
 <% articles.forEach(function(article){ %>
   <h3><%=article.title%><h3>
    <h4><%=article.author_name %>, <%=article.published%></h4>
    <a href="/reader/article/<%=article.article id%>"><button>Visit article</button></a>
   <% }) %>
 </body>
</html>
______
                   VIEWS/READER-BLOG.EJS END
______
______
                  VIEWS/READER-HOME.EJS START
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 k rel="stylesheet" type="text/css" href="/main.css" />
 <title>Reader Home</title>
</head>
<body>
 <h1>Reader Home</h1>
 <a href="/"><button>Front page</button></a>
```

```
<% blogs.forEach(function(blog){ %>
   <|i>
     <h4>Blog title: <%=blog.blog title %></h4>
     <h4>Author name: <%=blog.author name %></h4>
     <a href="/reader/blog/<%=blog.user id%>"><button>Visit blog</button></a>
   <% }) %>
 </body>
</html>
                    VIEWS/READER-HOME.EJS END
______
______
                     VIEWS/REGISTER.EJS START
______
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 k rel="stylesheet" type="text/css" href="/main.css" />
 <title>Register</title>
</head>
<body>
 <h1>Register below</h1>
 <form action="/users/add-user" method="post">
   Slog title: <input id="blog_title" type="text" name="blog_title" />
   Author name: <input id="author_name" type="text" name="author_name" />
   Username: <input id="username" type="text" name="username" />
   Password: <input id="password" type="password" name="password" />
   Confirm Password: <input id="confirm_password" type="password"</p>
name="confirm password" />
   <button type="submit">Register/button>
 </form>
</body>
</html>
______
```

VIEWS/REGISTER.EJS END

MY CODE END

DB_SCHEMA.SQL START
_
This makes sure that foreign_key constraints are observed and that errors will be thrown for
violations
PRAGMA foreign_keys=ON;
and the state of t
BEGIN TRANSACTION;
Create your tables with SQL commands here (watch out for slight syntactical differences with
SQLite vs MySQL)
oquito to myoquy

MY CODE START
WIT CODE STAINT

Here we store users with their passwords for login
CREATE TABLE IF NOT EXISTS users (
user_id INTEGER PRIMARY KEY AUTOINCREMENT,
username TEXT NOT NULL,
password TEXT NOT NULL,
author_name TEXT
);
Each user has one blog, and all articles they have are assosiated to that
blog

```
CREATE TABLE IF NOT EXISTS blogs (
  blog_id INTEGER PRIMARY KEY AUTOINCREMENT,
  user id INT, --the user that the blog settings belongs to
  blog title TEXT NOT NULL,
  author name TEXT NOT NULL,
  FOREIGN KEY (user id) REFERENCES users(user id)
);
-- These are the articles assossiated with the blog the user has
CREATE TABLE IF NOT EXISTS articles (
  article id INTEGER PRIMARY KEY AUTOINCREMENT,
  user id INT NOT NULL, --the user that the articles belongs to
  author name TEXT NOT NULL, -- the display name that the user has in the users table
  created TEXT NOT NULL,
  last modified TEXT NOT NULL.
  title TEXT,
  body TEXT,
  published TEXT, -- the time at which it was published
  number_of_views INTEGER DEFAULT 0,
  number of likes INTEGER DEFAULT 0
);
-- Here we store the article likes for all articles
CREATE TABLE article likes (
  like_id INTEGER PRIMARY KEY,
  article id INTEGER NOT NULL, -- This must match the article from the articles table
  ip address TEXT,
  FOREIGN KEY (article id) REFERENCES articles (article id) -- the articles id that it gets in
the articles table
);
-- Here we store the article views for all articles
CREATE TABLE article views (
  view id INTEGER PRIMARY KEY,
  article id INTEGER NOT NULL, -- This must match the article from the articles table
  ip address TEXT,
  FOREIGN KEY (article_id) REFERENCES articles(article_id) -- the articles id that it gets in
the articles table
);
-- Here we store the comments views for all articles
CREATE TABLE article_comments (
  comment id INTEGER PRIMARY KEY,
  article id INTEGER NOT NULL, -- This must match the article from the articles table
```

created TEXT NOT NULL,
commenter_name TEXT NOT NULL,
comment TEXT NOT NULL,
FOREIGN KEY (article_id) REFERENCES articles(article_id) -- the articles id that it gets in the articles table
);

-- DEFAULT STUFF THAT WAS HERE BEFORE I STARTED EDITING IT

-- Set up three users

=======

- -- BELOW, IS HERE FOR DEMONSTRATION PURPOSES TO HELP SHOW THE BLOGS
- -- FUNCTIONALITY AND TO HELP YOU GRADE MY ASSIGNMENT. THIS WOULD BE REMOVED IN
- -- A FINAL IMPLAMENTATION IF THIS WAS A REAL BLOG OF COURSE.

=======

- -- These users will be impossible to log into, even with the correct password
- -- here As it hashes your input password when you log in and then compares it
- -- to the password we are storing in the database, aka this password below.
- -- These are just here for demonstration to help you grade my assignment, and
- -- to show the functionality of the blog.

INSERT INTO users ('username', "author_name", "password") VALUES ('Spongebob', "Spongebob", "SpongesAreAwesome");

INSERT INTO users ('username', "author_name", "password") VALUES ('Patrick', "Patrick Star", "Starfish62");

INSERT INTO users ('username', "author_name", "password") VALUES ('Krusty Krabs', "Krusty Krabs", "TheSecretRecipe");

- -- These numbers and values are extremely specific, one mistake and a post
- -- won't be shown or an entire blog. These are usually made by the backend but
- -- as i mentioned above this is just for demonstration purposes

INSERT INTO blogs ("user_id", "blog_title", "author_name") VALUES (1, "Spongebobs adventures", "Spongebob");

INSERT INTO blogs ("user_id", "blog_title", "author_name") VALUES (2, "Patricks lounge", "Patrick Star");

INSERT INTO blogs ("user_id", "blog_title", "author_name") VALUES (3, "Money, Money, Monnnnneeeeeyyyy!!!", "Krusty Krabs");

INSERT INTO articles ("user_id", "author_name", "created", "last_modified", "title", "body", "published", "number_of_views", "number_of_likes") VALUES (1, "Spongebob", "2024-01-14 16:55:16", "2024-01-14 16:55:16", "The Cold Morning", "Hello everyone, and welcome to the

first Bikini Bottom Blog! I went outside of my pineapple today and it was freezing so bad my snail almost caught a cold!", "2024-01-14 16:55:16", 31, 10);

INSERT INTO articles ("user_id", "author_name", "created", "last_modified", "title", "body", "published", "number_of_views", "number_of_likes") VALUES (1, "Spongebob", "2023-01-14 16:55:16", "2023-01-14 16:55:16", "Planktons Evil Plan", "Today plankton tried to steal Mr.krabs's formula again! Luckily me and patrick caught him since i am a fantastic driver hahahahaha!", "2023-01-14 16:55:16", 91, 25);

INSERT INTO articles ("user_id", "author_name", "created", "last_modified", "title", "body", "published", "number_of_views", "number_of_likes") VALUES (2, "Patrick Star", "2024-01-14 16:55:16", "2024-01-14 16:55:16", "My morning routine", "I wake up, and then, i go back to bed, I just sleep all day until Spongebob wakes me up!", "2024-01-14 16:55:16", 21, 15);

INSERT INTO articles ("user_id", "author_name", "created", "last_modified", "title", "body", "published", "number_of_views", "number_of_likes") VALUES (3, "Krusty Krabs", "2020-01-14 16:55:16", "2020-01-14 16:55:16", "Simply, Money.", "When i wake up I think of money, when i go to bed, i dream of money, when i make money, i'm thinking of how amazing money is. Isn't money just amazing? Spongebob tells me i have a money hoarding problem, but i disagree.", "2024-01-14 16:55:16", 1000, 25);

INSERT INTO article_comments ("article_id", "created", "commenter_name", "comment") VALUES (1, "2024-01-14 16:55:16", "Plankton", "I will find that secret recipe! Why do i write this on every post...");

INSERT INTO article_comments ("article_id", "created", "commenter_name", "comment") VALUES (2, "2024-01-14 16:55:16", "Plankton", "I will find that secret recipe! Why do i write this on every post...");

INSERT INTO article_comments ("article_id", "created", "commenter_name", "comment") VALUES (3, "2024-01-14 16:55:16", "Plankton", "I will find that secret recipe! Why do i write this on every post...");

INSERT INTO article_comments ("article_id", "created", "commenter_name", "comment") VALUES (4, "2024-01-14 16:55:16", "Plankton", "I will find that secret recipe! Why do i write this on every post...");

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DB_SCHEMA.SQL END

