

Url: <http://www.doc.gold.ac.uk/ssh/307/>

Main.js,

```
// Route handler for forum web app
```

```
module.exports = function(app, forumData) {
```

```
    // Handle our routes
```

```
    // Home page
```

```
    app.get('/',function(req,res){
        res.render('index.ejs', forumData)
    });
```

```
    // About page
```

```
    app.get('/about',function(req,res){
        res.render('about.ejs', forumData);
    });
```

```
    // View Posts page
```

```
    app.get('/viewposts',function(req,res){
        // Query to select all posts from the database
        let sqlquery = `SELECT    post_id, p.post_date,
t.topic_title, p.post_title, p.post_content, u.username
                        FROM      posts p
                        JOIN      topics t
                        ON        t.topic_id=p.topic_id
                        JOIN      users u
                        ON        u.user_id=p.user_id
                        ORDER BY  post_date`;
```

```
    // Run the query
```

```
    db.query(sqlquery, (err, result) => {
        if (err) {
            res.redirect('./');
        }
    })
```

```
    // Pass results to the EJS page and view it
```

```
    let data = Object.assign({}, forumData, {posts:result});
    console.log(data)
    res.render('viewposts.ejs', data);
});
```

```
    // List Users page
```

```
    app.get('/users',function(req,res){
        // Query to select all users
        let sqlquery = `SELECT    username, firstname, surname,
country
                        FROM      users
```

```

ORDER BY username;`

// Run the query
db.query(sqlquery, (err, result) => {
  if (err) {
    res.redirect('./');
  }

  // Pass results to the EJS page and view it
  let data = Object.assign({}, forumData,
{users:result});
  console.log(data)
  res.render('users.ejs', data);
});

// List Topics page
app.get('/topics',function(req,res){
  // Query to select all topics
  let sqlquery = `SELECT    topic_id, topic_title,
topic_description
                    FROM      topics
                    ORDER BY topic_title`

  // Run the query
  db.query(sqlquery, (err, result) => {
    if (err) {
      res.redirect('./');
    }

    // Pass results to the EJS page and view it
let data = Object.assign({}, forumData, {topics:result});
    console.log(data)
    res.render('topics.ejs', data);
  });

// Add a New Post page
app.get('/addpost',function(req,res){
  // Set the initial values for the form
  let initialValues = {username: '', topic: '', title: '',
content: ''}

  // Pass the data to the EJS page and view it
  return renderAddNewPost(res, initialValues, "")
});

// Helper function to
function renderAddNewPost(res, initialValues, errorMessage) {
  let data = Object.assign({}, forumData, initialValues,
{errorMessage:errorMessage});
  console.log(data)

```

```

        res.render("addpost.ejs", data);
        return
    }

    // Add a New Post page form handler
    app.post('/postadded', function (req,res) {
        let user_id = -1
        let topic_id = -1

        // Get the user id from the user name
        let sqlquery = `SELECT * FROM users WHERE username = ?`
        db.query(sqlquery, [req.body.username], (err, result) => {
            if (err) {
                return console.error(err.message);
            }
            if (result.length==0) {
                return renderAddNewPost(res, req.body, "Can't find
that user")
            }
            user_id = result[0].user_id
            console.log("user is " + user_id)

            // Get the topic id from the topic title
            sqlquery = `SELECT * FROM topics WHERE topic_title = ?`
            db.query(sqlquery, [req.body.topic], (err, result) =>
{
                if (err) {
                    return console.error(err.message);
                }
                if (result.length==0) {
                    return renderAddNewPost(res, req.body, "Can't
find that topic")
                }
                topic_id = result[0].topic_id
                console.log("topic is " + topic_id)

                // Check the user is a member of the topic
                sqlquery = `SELECT COUNT(*) as countmembership
FROM membership WHERE user_id=? AND topic_id=?`
                db.query(sqlquery, [user_id, topic_id], (err,
result) => {
                    if (err) {
                        return console.error(err.message);
                    }
                    if (result[0].countmembership==0) {
                        return renderAddNewPost(res, req.body,
"User is not a member of that topic")
                    }

                    // Everything is in order so insert the post

```

```

        sqlquery = `INSERT INTO posts (post_date,
post_title, post_content, user_id, topic_id)
VALUES (now(), ?, ?, ?, ?)`;
        let newrecord = [req.body.title,
req.body.content, user_id, topic_id];
        db.query(sqlquery, newrecord, (err, result) =>
{
            if (err) {
                return console.error(err.message);
            }
            else
                res.send('You post has been added to
forum');
        });
    });
});
});
});

// Search for Posts page
app.get('/search',function(req,res){
    res.render("search.ejs", forumData);
});

// Search for Posts form handler
app.get('/search-result', function (req, res) {
    //searching in the database
    let term = '%' + req.query.keyword + '%'
    let sqlquery = `SELECT *
FROM    posts p
JOIN    topics t

ON      t.topic_id=p.topic_id
JOIN    users u

ON      u.user_id=p.user_id
WHERE   post_title LIKE ? OR post_content
LIKE ?

ORDER BY post_date`;

    // Run the query
    db.query(sqlquery, [term, term], (err, result) => {
        if (err) {
            res.redirect('./');
        }

        // Pass the results to the EJS page and view it
        // res.send('viewposts.ejs', data);
        let data = Object.assign({}, forumData,
{posts:result});
        console.log(data)
    });

```

```

        res.render('viewposts.ejs', data);
    });
});

// Search for Users form handler
app.get('/users-details', function (req, res) {
    //searching in the database
    let term = '%' + req.query.keyword + '%'
    let sqlquery = `SELECT *
                    FROM    users u

                    LEFT JOIN    posts p

                    ON        p.user_id=u.user_id

                    LEFT JOIN    topics p

                    ON        p.topic_id=p.topic_id

                    WHERE    username LIKE ?`;

    console.log(term); // Added

    // Run the query
    db.query(sqlquery, [term, term], (err, result) => {
        if (err) {
            res.redirect('..');
        }

        // Pass the results to the EJS page and view it
        // res.send('users.ejs', data);
        let data = Object.assign({}, forumData,
{users:result});
        console.log(data)

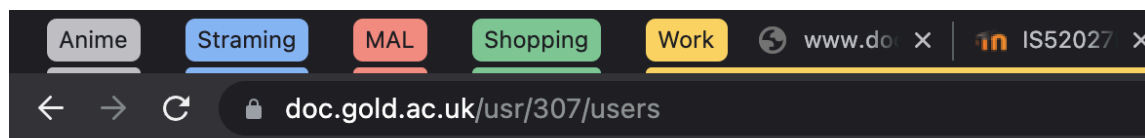
        res.render('users-details.ejs', data);
    });
});
}

```

Extensions;

User page,

I tried to implement the extension where in the users page you can click on the users username and pull up all their details but, I could not get this to properly work. I could not find a way to properly pass the username you click on as data to the query that would pull their information out from the data. The only way I could think of accomplishing the above was to use the get method for forums and set the default values in the input boxes to the usernames so you can just click on see details. I did write a new ejs file and query in a new route to pull the data but it would throw an error and return me to the home page.



Platinum Forums

Users

Username		First Name	Surname	Country
ally	User Details	Allyn	Earl	UK
baggy	User Details	Bernadette	Bagley	Italy
elly	User Details	Elly	Barros	Spain
lina	User Details	Carolina	Morella	Spain
panny	User Details	Sophie	Panza	UK
pip	User Details	Giada	Filippi	Italy
roly	User Details	Rolo	Vicario	Italy
shaddy	User Details	Shad	Travis	UK
vit	User Details	Miriana	Vitali	Italy

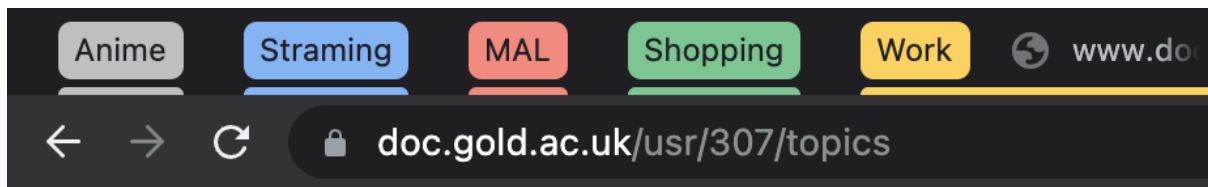
Caption

Users.ejs,

```
<!doctype html>
<html>
  <head>
    <title><%=forumName%> - Users</title>
    <link rel="stylesheet" type="text/css" href="main.css" />
  </head>
  <body>
    <h1><%=forumName%></h1>
    <h2>Users</h2>
    <table>
      <tr><th>Username</th><th>First Name</th><th>Surname</
th><th>Country</th></tr>
      <% users.forEach(function(user) { %>
        <tr>
          <td>
            <form action="/users-details" method="GET">
              <input type="text" id="username" name="username"
value="<%= user.username %>">
              <input type="submit" value="User Details">
            </form>
          </td> <!-- I realise this is the worst possible way but I
couldn't figure a way to pass the vaule of an <a href> tag to
the form -->
          <td><%= user.firstname %></td>
          <td><%= user.surname %></td>
          <td><%= user.country %></td>
        </tr>
      <% }) %>
    </table>
  </body>
</html>
```

Topic page,

I ran into the same issue I was running into with the users extension. I can turn the topic names into Links but I couldn't find a way to pass the topic text to a query in the code.



Platinum Forums

Topics

Topic	Description
architecture	Buildings of interest
art	Arts, artists and related
food	All about food

Topics.ejs

```
<!doctype html>
<html>
  <head>
    <title><%=forumName%> - Topics</title>
    <link rel="stylesheet" type="text/css" href="main.css" />
```

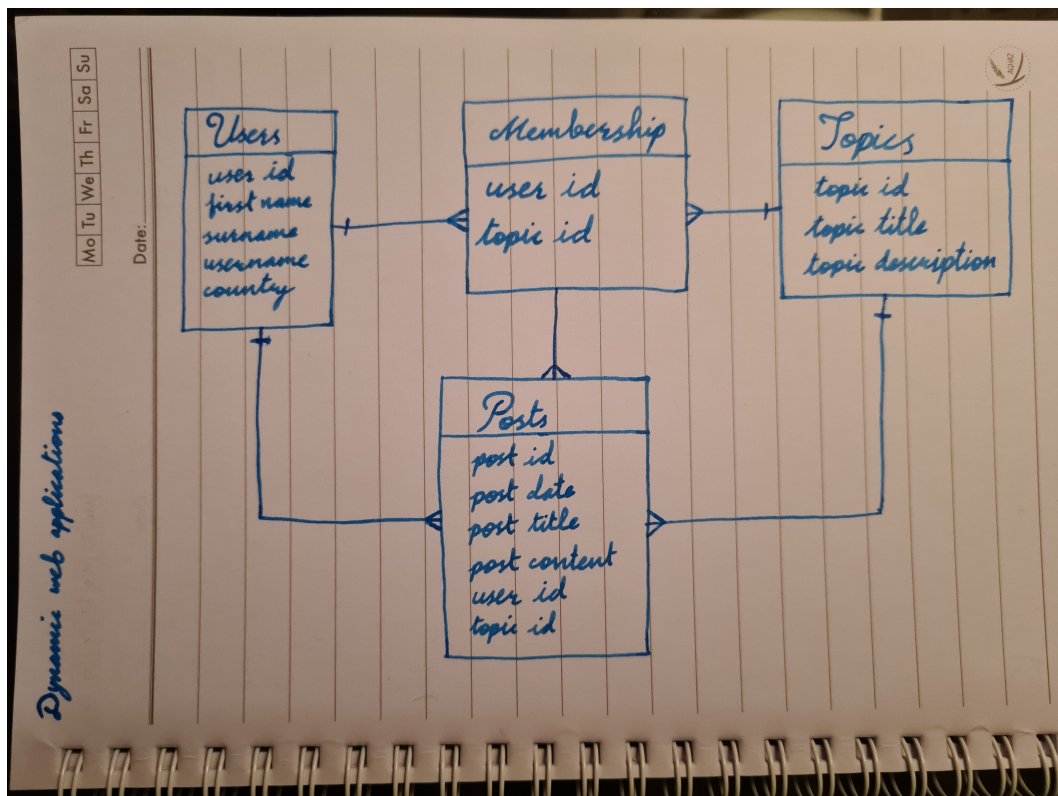


```

</head>
<body>
  <h1><%=forumName%></h1>
  <h2>Topics</h2>
  <table>
    <tr><th>Topic</th><th>Description</th></tr>
    <% topics.forEach(function(topic) { %>
      <tr>
        <td><a href="/"><%= topic.topic_title %></a></td>
        <td><%= topic.topic_description %></td>
      </tr>
    <% }) %>
  </table>
</body>
</html>

```

ER diagram,



Caption

—————The rest of the code is below—————

```
index.js,  
  
// My Forum  
// A web application to provide discussion forums  
  
// Import the modules we need  
var express = require ('express')  
var ejs = require('ejs')  
var bodyParser= require ('body-parser')  
const mysql = require('mysql');  
  
// Create the express application object  
const app = express()  
const port = 8000  
app.use(bodyParser.urlencoded({ extended: true })))  
  
// Define the database connection  
const db = mysql.createConnection ({  
  host: 'localhost',  
  user: 'forumapp',  
  password: 'qwerty',  
  database: 'myforum'  
});  
// Connect to the database  
db.connect((err) => {  
  if (err) {  
    throw err;  
  }  
  console.log('Connected to database');  
});  
global.db = db;  
  
// Set the directory where static files (css, js, etc) will be  
app.use(express.static(__dirname + "/public"));  
  
// Set the directory where Express will pick up HTML files  
// __dirname will get the current directory  
app.set('views', __dirname + '/views');  
  
// Tell Express that we want to use EJS as the templating engine  
app.set('view engine', 'ejs');  
  
// Tells Express how we should process html files
```

```
// We want to use EJS's rendering engine
app.engine('html', ejs.renderFile);

// Define our data
var forumData = {forumName: "Platinum Forums"}

// Requires the main.js file inside the routes folder passing in
the Express app and data as arguments. All the routes will go
in this file
require("./routes/main")(app, forumData);

// Start the web app listening
app.listen(port, () => console.log(`Example app listening on port
${port}! Press ^C to terminate.`))
```

Main.css,

```
h1 {
  font-family: Arial, Helvetica, sans-serif;
}

h2 {
  font-family: Arial, Helvetica, sans-serif;
}

p {
  font-family: Arial, Helvetica, sans-serif;
}

table {
  border: 1px solid;
}

th {
  text-align: left;
  font-family: Arial, Helvetica, sans-serif;
}

td {
  font-family: Arial, Helvetica, sans-serif;
  padding-right: 20px;
}

.errorMessage {
  color: red;
}
```

About.ejs,

```

<!doctype html>
<html>
  <head>
    <title><%=forumName%> - About</title>
    <link rel="stylesheet" type="text/css" href="main.css" />
  </head>
  <body>
    <h1>About <%=forumName%></h1>
    <p>Come here to chat about anything you want</p>
  </body>
</html>

```

Addpost.ejs,

```

<!doctype html>
<html>
  <head>
    <title><%=forumName%> - Add Post</title>
    <link rel="stylesheet" type="text/css" href="main.css" />
  </head>
  <body>
    <h1><%=forumName%></h1>
    <h2>Add a Post</h2>

    <form method="POST" action="/postadded">
      <p>Username: <input id="username" type="text"
name="username" value="<%=username%>" /></p>
      <p>Topic: <input id="topic" type="text" name="topic"
value="<%=topic%>" /></p>
      <p>Title: <input id="title" type="text" name="title"
value="<%=title%>" /></p>
      <p>Content: <textarea id="content" type="text"
name="content" value="" ><%=content%></textarea></p>
      <input type="submit" value="Add Post" />
    </form>
    <p class="errorMessage"><%=errorMessage %></p>
  </body>
</html>

```

index.ejs,

```

<!doctype html>
<html>
  <head>
    <title><%=forumName%> - Welcome</title>
    <link rel="stylesheet" type="text/css" href="main.css" />
  </head>

```

```

<body>
  <h1>Welcome to <%=forumName%></h1>
  <p><a href="about">About <%=forumName%></a></p>
  <p><a href="viewposts">View Posts</a></p>
  <p><a href="users">List Users</a></p>
  <p><a href="topics">List Topics</a></p>
  <p><a href="addpost">Add a New Post</a></p>
  <p><a href="search">Search for Posts</a></p>
</body>
</html>

```

Search,

```

<!doctype html>
<html>
  <head>
    <title><%=forumName%> - Search</title>
    <link rel="stylesheet" type="text/css" href="main.css" />
  </head>
  <body>
    <h1><%=forumName%></h1>
    <h2>Search for posts</h2>
    <form action="/search-result" method="GET">
      <p>What are you interested in?</p>
      <input id="search-box" type="text" name="keyword" value="">
      <input type="submit" value="Search" >
    </form>
  </body>
</html>

```

Search-result,

```

<!doctype html>
<html>
  <head>
    <title>About <%=forumName%></title>
    <link rel="stylesheet" type="text/css" href="main.css" />
  </head>
  <body>
    <h1>About <%=forumName%></h1>
    <p>Come here to chat about anything you want</p>
  </body>
</html>

```

Users-details.ejs,

```

<!doctype html>

<html>

  <head>

    <title>About <%=forumName%></title>

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

  </head>

  <body>

    <h1>About <%=forumName%></h1>

    <p>This should be the results from the user results.</p>

  </body>

</html>

```

Viewposts.ejs,

```

<!doctype html>
<html>
  <head>
    <title><%=forumName%> - Posts</title>
    <link rel="stylesheet" type="text/css" href="main.css" />
  </head>
  <body>
    <h1><%=forumName%></h1>
    <h2>View posts</h2>
    <table>
      <tr><th>Date</th><th>Topic</th><th>Title</th><th>Content</
th><th>User</th></tr>
      <% posts.forEach(function(post) { %>
        <tr>

```

```
        <td><%= post.post_date.toString() %> <%=
post.post_date.getHours() %>:<%= post.post_date.getMinutes() %></
td>
        <td><%= post.topic_title %></td>
        <td><%= post.post_title %></td>
        <td><%= post.post_content %></td>
        <td><%= post.username %></td>
    </tr>
    <% }) %>
</table>
</body>
</html>
```