

Name: Vinayak Kumar Singh

Subject: Full Stack Development

Register No: 23MCA1030

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Digital Assignment -3

1. Develop a login module using express middleware. When proper credentials are given display a greeting with an image and happy birthday text. This page must have a logout link. When you logout get redirected to login page. If credentials are incorrect, then redirect to login page. After login create session and display the session id also. Destroy the session on logout and set session timeout as 5 hours.

Step 1: Initialize Node.js app using command **npm init -y**

Step 2: Install required packages **npm install express express-session body-parser**

Step 3: Create the main app file **app.js**

```
const express = require('express');  
const session = require('express-session');  
const bodyParser = require('body-parser');  
const app = express();  
app.use(bodyParser.urlencoded({ extended: true }));
```

//Generating a secure secret key for session management

```
const sessionSecretKey =  
require('crypto').randomBytes(32).toString('hex');  
app.use(session({  
  secret: sessionSecretKey,  
  resave: true,
```

```
    saveUninitialized: true,  
    cookie: { maxAge: 5 * 60 * 60 * 1000 } // 5 hours  
  }));  
const validUser = {  
  username: 'vinayak',  
  password: 'password',  
};
```

// Login route

```
app.get('/login', (req, res) => {  
  res.sendFile(__dirname + '/login.html');  
});
```

// Handle login form submission

```
app.post('/login', (req, res) => {  
  const { username, password } = req.body;  
  if (username === validUser.username && password ===  
      validUser.password) {  
    req.session.user = validUser;  
    res.send(`  
      <h1>Welcome ${username}!</h1>  
        
      <p>Happy Birthday ${username}! </p>  
      <form action="/logout" method="get">  
        <button type="submit">Logout</button>  
      </form>  
    `);  
  } else {
```

```
    res.redirect('/login');
  }
});
```

// Logout route

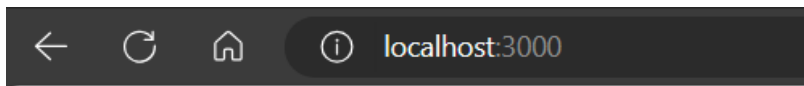
```
app.get('/logout', (req, res) => {
  req.session.destroy((err) => {
    if (err) {
      console.error(err);
    }
    res.redirect('/login');
  });
});
```

```
app.get('/', (req, res) => {
  res.send(`
    Welcome to the main page.<br>
    <form action="/login" method="get">
      <button type="submit">Login</button>
    </form>
  `);
});
```

// Serve the app

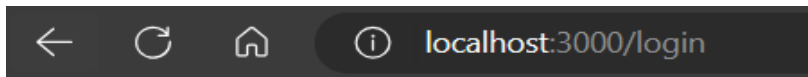
```
const PORT = 3000;
app.listen(PORT, () => {
  console.log(`Server is running on http://localhost:${PORT}`);
});
```

Output:



Welcome to the main page.

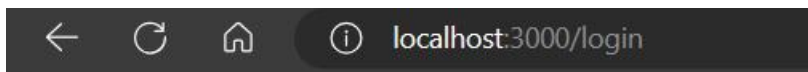
Login



Username:

Password:

Login



Welcome vinayak!

Happy Birthday vinayak!



Logout