**Basic Login System with Node.js, Express, and MySQL**

**File Structure**

\-- nodelogin  
    |-- login.html  
    |-- login.js  
    \-- static  
        |-- style.css

**login.html**

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| <!DOCTYPE html>  <html>  <head>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width,minimum-scale=1">  <title>Login</title>  <!-- the form awesome library is used to add icons to our form -->  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.1/css/all.css">  <!-- include the stylesheet file -->  <link href="/style.css" rel="stylesheet" type="text/css">  </head>  <body>  <div class="login">  <h1>Login</h1>  <form action="/auth" method="post">  <label for="username">  <!-- font awesome icon -->  <i class="fas fa-user"></i>  </label>  <input type="text" name="username" placeholder="Username" id="username" required>  <label for="password">  <i class="fas fa-lock"></i>  </label>  <input type="password" name="password" placeholder="Password" id="password" required>  <input type="submit" value="Login">  </form>  </div>  </body>  </html> |

**style.css**

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| \* {  box-sizing: border-box;  font-family: -apple-system, BlinkMacSystemFont, "segoe ui", roboto, oxygen, ubuntu, cantarell, "fira sans", "droid sans", "helvetica neue", Arial, sans-serif;  font-size: 16px;  }  body {  background-color: #435165;  }  .login {  width: 400px;  background-color: #ffffff;  box-shadow: 0 0 9px 0 rgba(0, 0, 0, 0.3);  margin: 100px auto;  }  .login h1 {  text-align: center;  color: #5b6574;  font-size: 24px;  padding: 20px 0 20px 0;  border-bottom: 1px solid #dee0e4;  }  .login form {  display: flex;  flex-wrap: wrap;  justify-content: center;  padding-top: 20px;  }  .login form label {  display: flex;  justify-content: center;  align-items: center;  width: 50px;  height: 50px;  background-color: #3274d6;  color: #ffffff;  }  .login form input[type="password"], .login form input[type="text"] {  width: 310px;  height: 50px;  border: 1px solid #dee0e4;  margin-bottom: 20px;  padding: 0 15px;  }  .login form input[type="submit"] {  width: 100%;  padding: 15px;  margin-top: 20px;  background-color: #3274d6;  border: 0;  cursor: pointer;  font-weight: bold;  color: #ffffff;  transition: background-color 0.2s;  }  .login form input[type="submit"]:hover {  background-color: #2868c7;  transition: background-color 0.2s;  } |

**login.js**

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| const mysql = require('mysql');  const express = require('express');  const session = require('express-session');  const path = require('path');  const app = express();  const connection = mysql.createConnection({  host : 'localhost',  user : 'root',  password : '',  database : 'nodelogin'  }); |

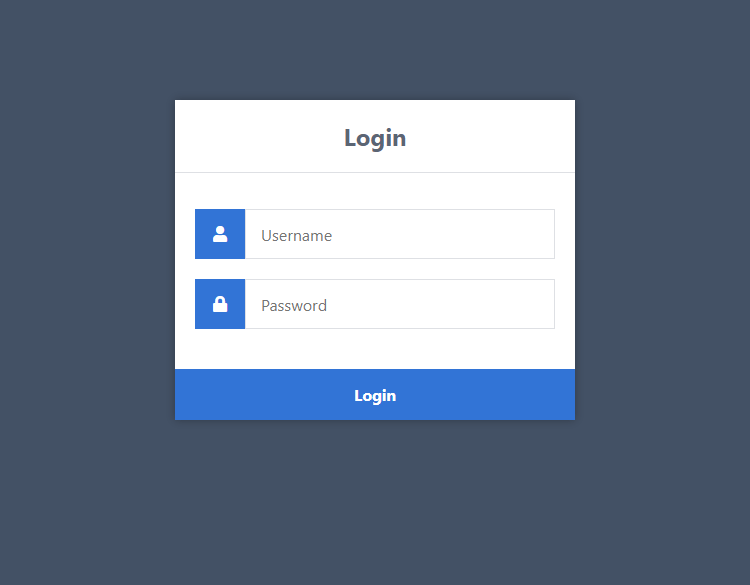
|  |
| --- |
| app.use(session({  secret: 'secret',  resave: true,  saveUninitialized: true  }));  app.use(express.json());  app.use(express.urlencoded({ extended: true }));  app.use(express.static(path.join(\_\_dirname, 'static'))); |

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| / http://localhost:3000/  app.get('/', function(request, response) {  // Render login template  response.sendFile(path.join(\_\_dirname + '/login.html'));  }); |

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| // http://localhost:3000/auth  app.post('/auth', function(request, response) {  // Capture the input fields  let username = request.body.username;  let password = request.body.password;  // Ensure the input fields exists and are not empty  if (username && password) {  // Execute SQL query that'll select the account from the database based on the specified username and password  connection.query('SELECT \* FROM accounts WHERE username = ? AND password = ?', [username, password], function(error, results, fields) {  // If there is an issue with the query, output the error  if (error) throw error;  // If the account exists  if (results.length > 0) {  // Authenticate the user  request.session.loggedin = true;  request.session.username = username;  // Redirect to home page  response.redirect('/home');  } else {  response.send('Incorrect Username and/or Password!');  }  response.end();  });  } else {  response.send('Please enter Username and Password!');  response.end();  }  }); |

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| // http://localhost:3000/home  app.get('/home', function(request, response) {  // If the user is loggedin  if (request.session.loggedin) {  // Output username  response.send('Welcome back, ' + request.session.username + '!');  } else {  // Not logged in  response.send('Please login to view this page!');  }  response.end();  });  app.listen(3000); |

Output



FULL CODE

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| **Full login.js Source**  **JS**  const mysql = require('mysql');  const express = require('express');  const session = require('express-session');  const path = require('path');  const connection = mysql.createConnection({  host : 'localhost',  user : 'root',  password : '',  database : 'nodelogin'  });  const app = express();  app.use(session({  secret: 'secret',  resave: true,  saveUninitialized: true  }));  app.use(express.json());  app.use(express.urlencoded({ extended: true }));  app.use(express.static(path.join(\_\_dirname, 'static')));  // http://localhost:3000/  app.get('/', function(request, response) {  // Render login template  response.sendFile(path.join(\_\_dirname + '/login.html'));  });  // http://localhost:3000/auth  app.post('/auth', function(request, response) {  // Capture the input fields  let username = request.body.username;  let password = request.body.password;  // Ensure the input fields exists and are not empty  if (username && password) {  // Execute SQL query that'll select the account from the database based on the specified username and password  connection.query('SELECT \* FROM accounts WHERE username = ? AND password = ?', [username, password], function(error, results, fields) {  // If there is an issue with the query, output the error  if (error) throw error;  // If the account exists  if (results.length > 0) {  // Authenticate the user  request.session.loggedin = true;  request.session.username = username;  // Redirect to home page  response.redirect('/home');  } else {  response.send('Incorrect Username and/or Password!');  }  response.end();  });  } else {  response.send('Please enter Username and Password!');  response.end();  }  });  // http://localhost:3000/home  app.get('/home', function(request, response) {  // If the user is loggedin  if (request.session.loggedin) {  // Output username  response.send('Welcome back, ' + request.session.username + '!');  } else {  // Not logged in  response.send('Please login to view this page!');  }  response.end();  });  app.listen(3000); |