

Name: Avinash singh

Roll no: AC-1255

Course Name: B.Sc. Hons Computer Science

Subject: Internet Technologies

QUESTION 11:

Create index.html file containing two forms for SignIn and SignUp. Submitting SignIn form should search for credentials in mysql database using server created in previous practical. On successful signin, a welcome page should be displayed. Submitting SignUp form should insert new entry for credentials in mysql database using server created in previous practical. On successful signup, user should be returned back to index.html

STEP 1:- CREATE A MYSQL DATABASE

CREATE DATABASE ques11db;

```
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 25
Server version: 8.0.28 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> |
```

```
mysql> use ques11db
Database changed
mysql> describe usertable;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userID | int | NO | PRI | NULL | auto_increment |
| username | varchar(45) | NO | | NULL | |
| password | varchar(45) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> select * usertable;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
for the right syntax to use near 'usertable' at line 1
mysql> select * from usertable;
+-----+-----+-----+
| userID | username | password |
+-----+-----+-----+
| 1 | admin | admin |
+-----+-----+-----+
```

Signin.html

```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Sign In</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
</head>
<body>
<div class="mx-5 my-5 d-flex justify-content-center">
<form method="post" action="/signin">
<div class="mb-3">
<label for="userid" class="form-label">Username</label>
<input type="text" class="form-control" id="userid" name="userid"
placeholder="Enter
username">
</div>
<div class="mb-3">
<label for="password" class="form-label">Password</label>
<input type="password" class="form-control" id="password" name="password"
placeholder="Enter password">
</div>
<div class="mt-4">
<button type="submit" name="sub" class="btn btn-primary me-3 px-
5">Login</button>
```

```

<a href="/signup">Click here to signup...</a>
</div>
</form>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
</body>
</html>

```

Signup.html

```

<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Sign Up</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
</head>
<body>
<div class="mx-5 my-5 d-flex justify-content-center">
<form method="post" action="/signup">
<div class="mb-3">
<label for="uname" class="form-label">Username</label>
<input type="text" class="form-control" id="uname" name="uname"
placeholder="Enter
username">
</div>
<div class="mb-3">
<label for="password" class="form-label">Password</label>
<input type="password" class="form-control" id="password" name="password"
placeholder="Enter password">
</div>
<div class="mb-3">
<label for="cpassword" class="form-label">Password</label>
<input type="password" class="form-control" id="cpassword" name="cpassword"
placeholder="Re-enter password">
</div>
<div class="mt-4">

```

```

<button type="submit" name="sub" class="btn btn-primary me-3 px-5">Sign
Up</button>
<a href="/signin">Click here to signin...</a>
</div>
</form>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
</body>
</html>

```

Dashboard.html

```

<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Sign In</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
</head>
<body>
<div class="mx-5 my-5">
<h2>Welcome to dashboard</h2>
<a href="/signout">Logout</a>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
</body>
</html>

```

Index.js

```

const express = require("express");
const app = express()

```

```

const mysql2 = require("mysql2");
const bodyParser = require('body-parser');
const path = require("path");
let con = mysql2.createConnection({
  host: '127.0.0.1',
  user: 'root',
  password: '9043',
  database: 'ques11db'
})
app.use(bodyParser.urlencoded({
  extended: false
}));
app.use(express.static(path.join(__dirname, './public')));
app.get("/", function (req, res) {
  res.sendFile(path.join(__dirname, './public/signin.html'))
})
app.get("/signin", function (req, res) {
  res.sendFile(path.join(__dirname, './public/signin.html'));
})
app.get("/signout", function (req, res) {
  res.sendFile(path.join(__dirname, './public/signin.html'));
})
app.post("/signin", function (req, res) {
  con.connect((error) => {
    let ins = "select* from usertable where username=? and password=?";
    let userid = req.body.userid;
    let password = req.body.password;
    con.query(ins, [userid, password], (er, result) => {
      if (er) throw er
      else
      if (result.length > 0) {
        res.sendFile(path.join(__dirname, './public/dashboard.html'));
      } else {
        res.write("Invalid login ID or password!");
      }
    });
  });
})
app.get("/signup", function (req, res) {
  res.sendFile(path.join(__dirname, './public/signup.html'));
})
app.post("/signup", function (req, res) {
  con.connect((error) => {
    if (error) throw Error(error)
    let ins = "insert into usertable (username, password) values('" +
    req.body.uname +
    "', '" + req.body.password + "')";
    con.query(ins, (er, result) => {

```

```
if (er) res.write(er.message)
else
res.sendFile(path.join(__dirname, './public/signin.html'));
});
})
})
app.listen(3000,
() => console.log("Server up and running at port 3000..."))
```

Run File

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

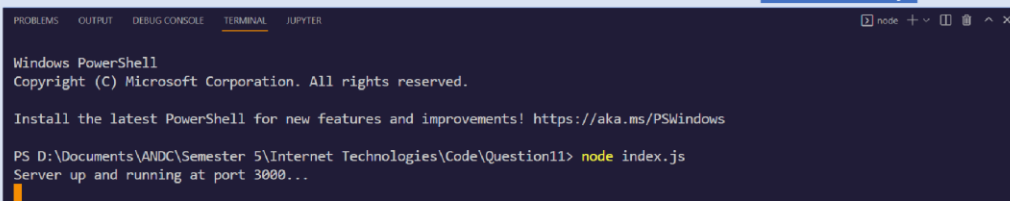
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\saara\Desktop\it> node index.js
PS C:\Users\saara\Desktop\it> node index.js
Server is running at port 3000
█
```

OUTPUT:

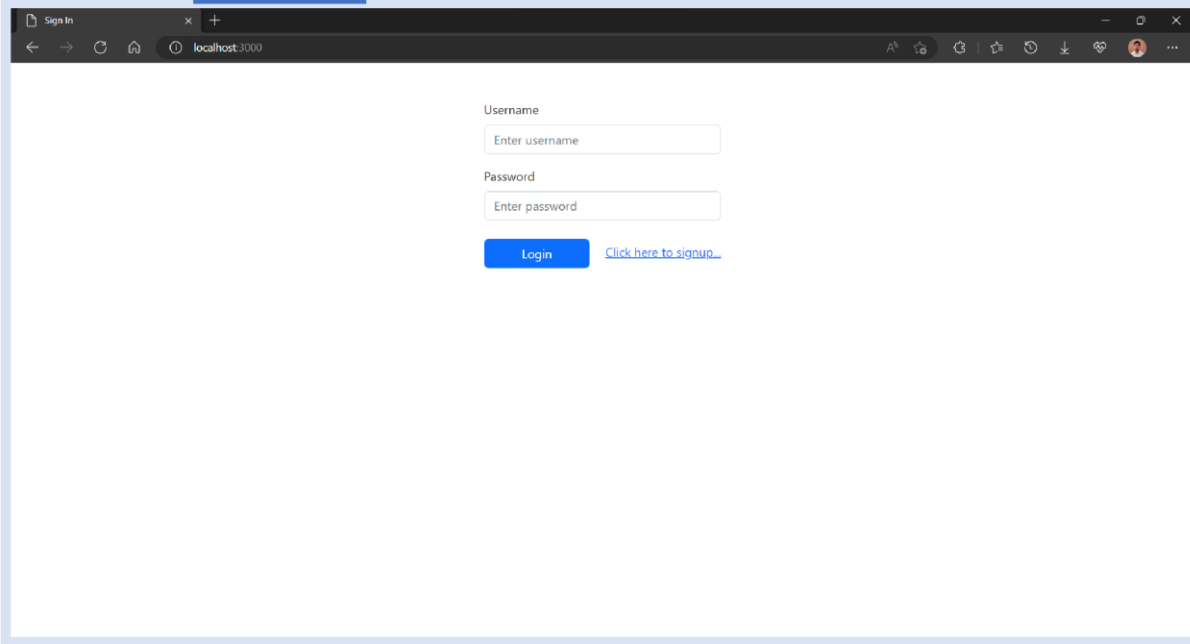
```
});  
})  
})  
app.get("/signup", function (req, res) {  
  res.sendFile(path.join(__dirname, './public/signup.html'));  
})  
app.post("/signup", function (req, res) {  
  con.connect((error) => {  
    if (error) throw Error(error)  
    let ins = "insert into usertable (username, password) values('" + req.body.uname +  
    "', '" + req.body.password + "')";  
    con.query(ins, (er, result) => {  
      if (er) res.write(er.message)  
      else  
        res.sendFile(path.join(__dirname, './public/signin.html'));  
    });  
  });  
})  
app.listen(3000,  
  () => console.log("Server up and running at port 3000...")  
)
```

STEP 11:- RUN THE CODE USING FOLLOWING COMMAND IN TERMINAL `node index.js`



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER  
Windows PowerShell  
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows  
  
PS D:\Documents\ANDC\Semester 5\Internet Technologies\Code\Question11> node index.js  
Server up and running at port 3000...
```

STEP 12:- GO TO `localhost:3000` IN YOUR BROWSER AND INPUT YOUR LOGIN DETAILS IN SIGNIN OR SIGNUP



Sign In

Username

Password

Login [Click here to signup](#)

Sign In

localhost:3000

Username

admin

Password

.....

Login

[Click here to signup.](#)

Sign In

localhost:3000/signup

Welcome to dashboard

[Logout](#)