



Software Engineering

CMPE-273 ENTERPRISE DISTRIBUTED SYSTEMS FALL-2018

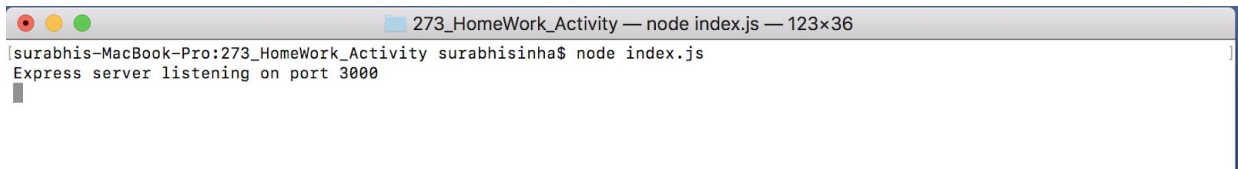
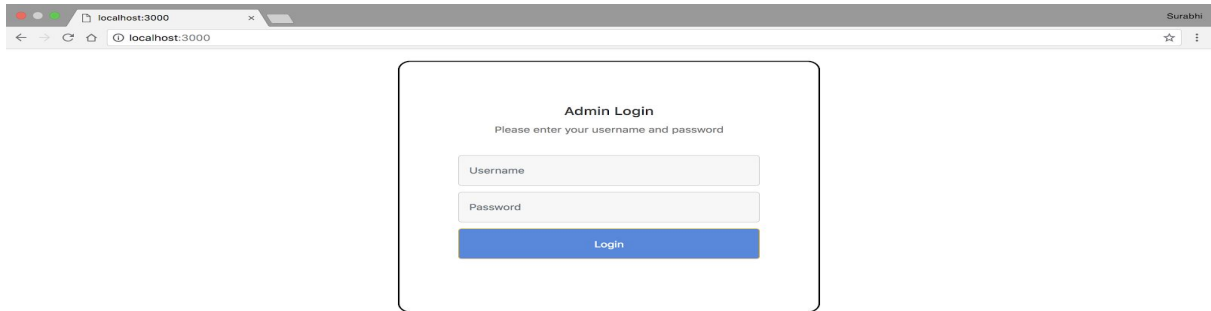
Assignment-2

Presented to
Professor Simon Shim

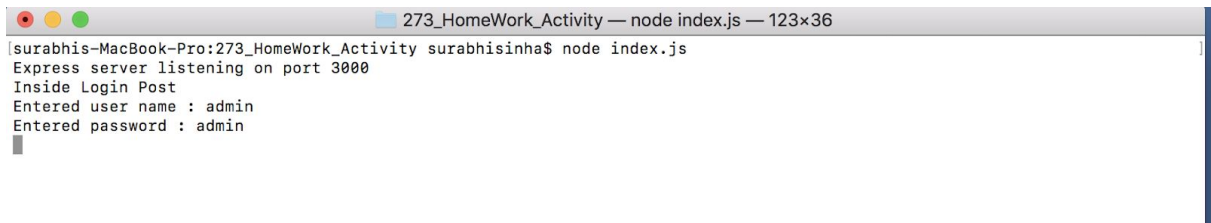
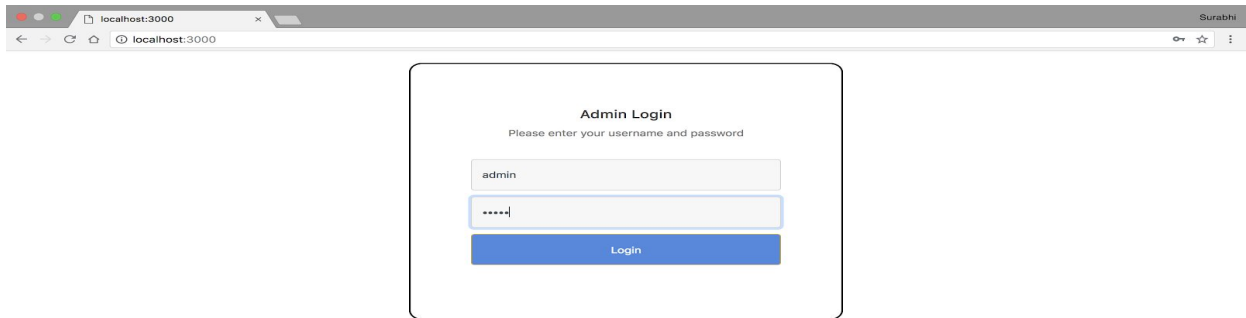
Presented By
Surabhi Sinha
SJSU ID: 013704652

Date of Submission: 09/10/2018

Login Functionality:



User will enter Username and Password on this page to login to system:




Add User Functionality:

After entering correct username and password, user will navigate to Student Information page:

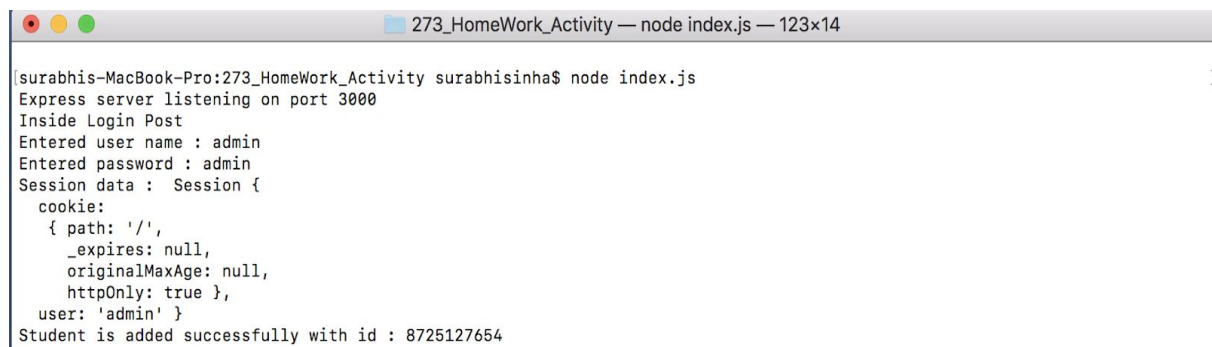


A screenshot of a web browser window showing a form titled "Student Information". The form has three input fields: "Name", "Student ID", and "Department". Below the fields are two buttons: "Clear" and "Add a User". The browser's address bar shows "localhost:3000/login".

User will enter Student name, id and department and on after clicking on “Add a User” button, user details will be saved and will be displayed on the next “User Report page”:



A screenshot of the same "Student Information" form, but now it contains data. The "Name" field is filled with "Surabhi Sinha", the "Student ID" field with "8725127654", and the "Department" field with "SE". The "Clear" and "Add a User" buttons are still present at the bottom.



```
273_HomeWork_Activity — node index.js — 123x14
[surabhis-MacBook-Pro:273_HomeWork_Activity surabhisinha$ node index.js
Express server listening on port 3000
Inside Login Post
Entered user name : admin
Entered password : admin
Session data : Session {
  cookie:
    { path: '/',
      _expires: null,
      originalMaxAge: null,
      httpOnly: true },
  user: 'admin' }
Student is added successfully with id : 8725127654
```

User Report Functionality:

User can view all the user details added through Student Information Page on below “User Report Page”:

localhost:3000/getStudentReport

Surabhi

User Report			
Name	Student ID	Department	
Surabhi Sinha	9075686308	SE	Delete
Surabhi Sinha	1234567890	CSE	Delete
Surabhi Sinha	8725127654	SE	Delete

```
273_HomeWork_Activity — node index.js — 123x36
[surabhis-MacBook-Pro:273_HomeWork_Activity surabhisinha$ node index.js
Express server listening on port 3000
Inside Login Post
Entered user name : admin
Entered password : admin
Session data : Session {
  cookie:
    { path: '/',
      _expires: null,
      originalMaxAge: null,
      httpOnly: true },
  user: 'admin' }
Student is added successfully with id : 8725127654
User report is generated successfully.!!
```

Delete Functionality :

User can delete user details from “User Report Page” by clicking on the “Delete” button:

localhost:3000/delete

Surabhi

User Report			
Name	Student ID	Department	
Surabhi Sinha	9075686308	SE	Delete
Surabhi Sinha	8725127654	SE	Delete

```
273_HomeWork_Activity — node index.js — 123x36
surabhis-MacBook-Pro:273_HomeWork_Activity surabhisinha$ node index.js
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Inside Login Post
Entered user name : admin
Entered password : admin
Session data : Session {
  cookie:
    { path: '/',
      _expires: null,
      originalMaxAge: null,
      httpOnly: true },
  user: 'admin' }
Student is added successfully with id : 8725127654
User report is generated successfully.!!
Student data is deleted successfully
```

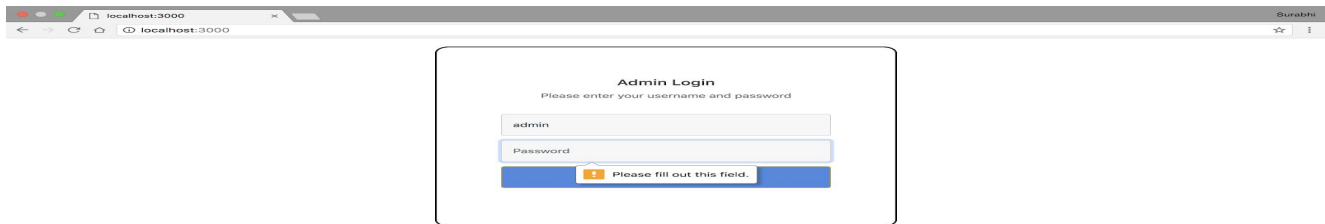
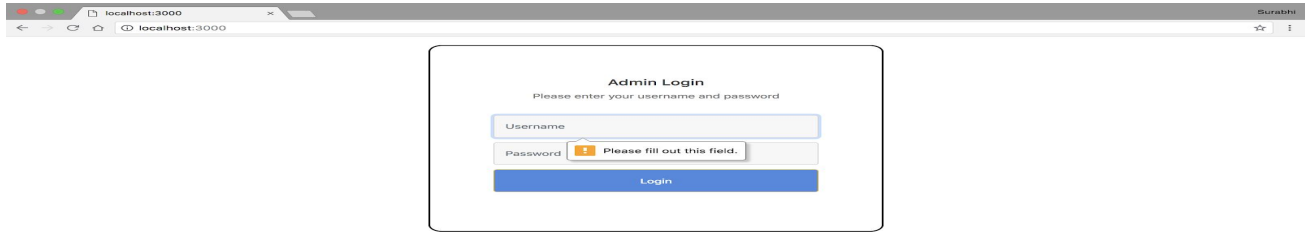
Clear Functionality:

Clicking on “Clear” button will clear the value of all the fields in the form.



Validations:

1)Both fields on “Admin Login” page are mandatory, user won’t be able to navigate to next page without entering value of both the fields:



2) All the fields on “Student Information” page is mandatory and Student ID must be 10:



localhost:3000/login

Surabhi

Student Information

Surabhi Sinha

1234171912

Department

Please fill out this field.

Clear

Add a User

localhost:3000/login

Surabhi

Student Information

Surabhi Sinha

1213

SE

Please match the requested format.
Enter correct student id length that is 10

Clear

Add a User

Express Session and Cookies:

localhost:3000/getStudentReport

Surabhi

User Report

Name	Student ID	Department	
Surabhi Sinha	9075686308	SE	Delete
Surabhi Sinha	8725127654	SE	Delete
Surabhi Sinha	1213232423	SE	Delete

addStudent

getStudentReport

jquery.min.js

bootstrap.min.js

style.css

General

Request URL: http://localhost:3000/addStudent

Request Method: POST

Status Code: 302 Found

Remote Address: 127.0.0.1:3000

Referrer Policy: no-referrer-when-downgrade

Response Headers

Connection: keep-alive

Content-Length: 70

Content-Type: text/html; charset=utf-8

Date: Mon, 10 Sep 2018 23:45:30 GMT

Location: /getStudentReport

Vary: Accept

X-Powered-By: Express

Request Headers

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8

Accept-Encoding: gzip, deflate, br

Accept-Language: en-US,en;q=0.9

Cache-Control: max-age=0

Connection: keep-alive

Content-Length: 53

Content-Type: application/x-www-form-urlencoded

Cookie: connect.sid=s%3Awa8EzRL3wz1TMA1eKVcVSP10ZpDQBdc_KJGtGKA5ogneppy8Ag2gZYVBHox3eFl6uSAS1y0zP6

Host: localhost:3000

Origin: http://localhost:3000

Referer: http://localhost:3000/login

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3446.180 Safari/537.36

Form Data

view source

view URL encoded

5 requests | 2.7 KB tra...

```
273_HomeWork_Activity — node index.js — 123x36
[Surabhis-MacBook-Pro:273_HomeWork_Activity surabhisinha$ node index.js]
Express server listening on port 3000
Inside Login Post
Entered user name : admin
Entered password : admin
Session data : Session {
  cookie: {
    { path: '/',
      _expires: null,
      originalMaxAge: null,
      httpOnly: true },
    user: 'admin' }
}
Student is added successfully with id : 8725127654
User report is generated successfully.!!
```

Routes Code:**1) loadloginpage:**

```
app.get('/',users.loadLoginPage);

function loadLoginPage(req , res) {
    ejs.renderFile('./views/login.ejs' , function(result , error) {
        if(error) {
            res.send(error);
        }
        else {
            res.send(result);
        }
    });
}
```

2) loginPage:

```
app.post('/login',users.loginPage);

function loginPage(req , res) {
    console.log("Inside Login Post")
    let userName=req.body.username;
    let password=req.body.password;
    if(userName=="admin" && password=="admin") {
        req.session.user=userName;
        ejs.renderFile('./views/add_user.ejs' , function (result, error) {
            console.log("Entered user name : " +userName);
            console.log("Entered password : " +password);
            if(error) {
                res.end(error);
            }
            else {
                console.log("Session Details: " +req.session);
                console.log("User logged in successfully.!!");
                res.end(result);
            }
        });
    }
    else {
        ejs.renderFile('./views/login.ejs',function(result,error) {
            if(error) {
```



```

        console.log("Error retrieving login page after entering wrong user id and password");
        res.end(result);
    }
    });
}
}

```

3) addStudent:

```

app.post('/addStudent',users.addStudent);

function addStudent(req,res) {
    let name=req.body.name;
    let studentid=req.body.studentid;
    let department=req.body.department;
    if(!req.session.user){
        res.redirect('/');
    }
    else {
        let insertQuery = "insert into student_information(name,studentid,department)
        values('"+name+"','"+studentid+"','"+department+"')";
        mysql.fetchData(function(error , results) {
            if(!error) {
                console.log("Session data : " , req.session);
                console.log("Student is added successfully with id : " +studentid);
                res.redirect('/getStudentReport');
            }
            },insertQuery);
        }
    }
}

```

4) getStudentReport

```

app.get('/getStudentReport',users.getStudentReport);
function getStudentReport(req, res) {
    if(!req.session.user){
        res.redirect('/');
    }
    else {
        var getStudent="select * from student_information";
        mysql.fetchData(function(err, results) {
            if(err) {
                console.log(err.message);
            }
            else {
                if(results.length > 0) {
                    ejs.renderFile('./views/user_report.ejs', {data : results} , function(err, result) {

```

```

        if(!err) {
            console.log("User report is generated successfully!!");
            res.end(result);
        }
        else {
            res.end('An error occurred');
            console.log(err);
        }
    });
}
}, getStudent);
}
}

```

5) deleteStudent:

```

app.post('/delete', users.deleteStudent);
function deleteStudent(req, res) {
    if(!req.session.user)
        res.redirect('/');
    else {
        var deleteUser = "delete from student_information where id = " + req.body.param1;
        mysql.fetchData(function(err, resu){
            if(!err) {
                mysql.fetchData(function(err, results){
                    if(err)
                        console.log(err.message);
                    else{
                        if(results.length > 0){
                            ejs.renderFile('./views/user_report.ejs', {data : results}, function(err, result){
                                if (!err) {
                                    console.log("Student data is deleted successfully");
                                    res.end(result);
                                }
                                else {
                                    res.end('An error occurred');
                                    console.log(err);
                                }
                            });
                        }
                    }
                }, "select * from student_information");
            }
        }, deleteUser);
    }
}
}

```