

## Practical 11

**Exercise:-Design web application with the help of node js, express, body parser, express-session and mysql.**

### Program:

#### login.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfSpd3yD65VohhpuuCOMLA
SjC" crossorigin="anonymous">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIax
VXM" crossorigin="anonymous"></script>
  <link rel="stylesheet" href="/login.css">
  <title>Document</title>
</head>
<body>
  <form action="/auth" method="post">
    <section class="vh-100">
      <div class="container-fluid h-custom">
        <div class="row d-flex justify-content-center align-items-center h-100">
          <div class="col-md-9 col-lg-6 col-xl-5">
            
          </div>
          <div class="col-md-8 col-lg-6 col-xl-4 offset-xl-1">
            <form>
              <div class="d-flex flex-row align-items-center justify-content-center
justify-content-lg-start">
                <p class="lead fw-normal mb-0 me-3">Sign in with</p>
                <button type="button" class="btn btn-primary btn-floating mx-1">
                  <i class="fab fa-facebook-f"></i>
                </button>

                <button type="button" class="btn btn-primary btn-floating mx-1">
                  <i class="fab fa-twitter"></i>
                </button>
            </div>
          </div>
        </div>
      </div>
    </section>
  </form>
</body>
</html>
```

```

        <button type="button" class="btn btn-primary btn-floating mx-1">
          <i class="fab fa-linkedin-in"></i>
        </button>
      </div>

      <div class="divider d-flex align-items-center my-4">
        <p class="text-center fw-bold mx-3 mb-0">Or</p>
      </div>

      <!-- name input -->
      <div class="form-outline mb-4">
        <input type="text" name="username" id="form3Example3"
class="form-control form-control-lg"
        placeholder="Username" />
        <label class="form-label" for="form3Example3">Username</label>
      </div>

      <!-- Password input -->
      <div class="form-outline mb-3">
        <input type="password" name="password" id="form3Example4"
class="form-control form-control-lg"
        placeholder="Enter password" />
        <label class="form-label" for="form3Example4">Password</label>
      </div>

      <div class="d-flex justify-content-between align-items-center">
        <!-- Checkbox -->
        <div class="form-check mb-0">
          <input class="form-check-input me-2" type="checkbox" value=""
id="form2Example3" />
          <label class="form-check-label" for="form2Example3">
            Remember me
          </label>
        </div>
        <a href="#" class="text-body">Forgot password?</a>
      </div>

      <div class="text-center text-lg-start mt-4 pt-2">
        <button type="submit" name="submit" class="btn btn-primary btn-lg"
style="padding-left: 2.5rem; padding-right: 2.5rem;">Login</button>
        <p class="small fw-bold mt-2 pt-1 mb-0">Don't have an account? <a
href="#"
class="link-danger">Register</a></p>
      </div>

    </form>
  </div>
</div>
</div>

```

```

<div
  class="d-flex flex-column flex-md-row text-center text-md-start justify-
content-between py-4 px-4 px-xl-5 bg-primary">
  <!-- Copyright -->
  <div class="text-white mb-3 mb-md-0">
    Copyright © 2020. All rights reserved.
  </div>
  <!-- Copyright -->

  <!-- Right -->
  <div>
    <a href="#" class="text-white me-4">
      <i class="fab fa-facebook-f"></i>
    </a>
    <a href="#" class="text-white me-4">
      <i class="fab fa-twitter"></i>
    </a>
    <a href="#" class="text-white me-4">
      <i class="fab fa-google"></i>
    </a>
    <a href="#" class="text-white">
      <i class="fab fa-linkedin-in"></i>
    </a>
  </div>
  <!-- Right -->
</div>
</section>
</form>
</body>
</html>

```

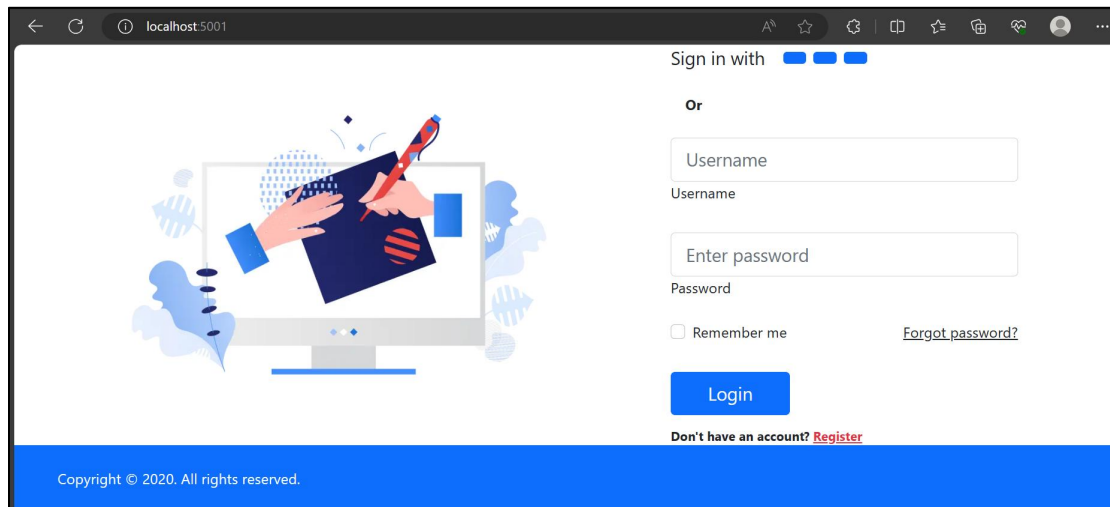
## login.css

```

.divider:after,
.divider:before {
  content: "";
  flex: 1;
  height: 1px;
  background: #eee;
}
.h-custom {
  height: calc(100% - 73px);
}
@media (max-width: 450px) {
  .h-custom {
    height: 100%;
  }
}

```

## Output:-



## register.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <!-- <link rel="stylesheet" href="register.css"> -->
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfSpd3yD65VohhpuaCOMLA
SjC" crossorigin="anonymous">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
MrcW6ZMFY1zcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIax
VXM" crossorigin="anonymous"></script>
  <title>Document</title>
</head>
<body>
  <form method="post" action="/formSubmit" >
    <section class="h-100 h-custom" style="background-color: #8fc4b7;">
      <div class="container py-5 h-100">
        <div class="row d-flex justify-content-center align-items-center h-100">
          <div class="col-lg-8 col-xl-6">
            <div class="card rounded-3">
              
              <div class="card-body p-4 p-md-5">
```

```

Info</h3>
    <h3 class="mb-4 pb-2 pb-md-0 mb-md-5 px-md-2">Registration
    <form class="px-md-2">
        <div class="form-outline mb-4">
            <label class="form-label" for="form3Example1q">Name</label>
            <input type="text" name="name" id="form3Example1q"
class="form-control" />
        </div>

        <div class="row">
            <div class="col-md-6 mb-4">
                <label for="exampleDatepicker1" class="form-label">Enter
date</label>
                <div class="form-outline datepicker">
                    <input type="text" name="date" class="form-control"
id="exampleDatepicker1" />
                </div>


            </div>
            <div class="col-md-6 mb-4">
                <label for="exampleDatepicker1" class="form-label">Select
Gender</label><br>
                <select class="select" name="gender">
                    <option value="1" disabled>Gender</option>
                    <option value="Female">Female</option>
                    <option value="Male">Male</option>
                    <option value="Other">Other</option>
                </select>
            </div>
        </div>

        <div class="mb-4">
            <label for="exampleDatepicker1" class="form-label">Select
Class</label><br>
            <select class="select" name="cls">
                <option value="1" disabled>Class</option>
                <option value="Class1">Class 1</option>
                <option value="Class2">Class 2</option>
                <option value="Class3">Class 3</option>
            </select>
        </div>

        <div class="row mb-4 pb-2 pb-md-0 mb-md-5">
            <div class="col-md-6">
                <div class="form-outline">
                    <label class="form-label" for="form3Example1w">Registration
code</label>
                    <input type="text" name="regCode" id="form3Example1w"
class="form-control" />

```

**Output:-**



## Registration Info

Name

Enter date

Select Gender

Female ▼

Select Class

Class 1 ▼

Registration code

Submit

Logout

## **dbConnection.js**

```
var mysql=require('mysql');
var con=mysql.createConnection({
  host:'localhost',
  user:'root',
  password:"",
  database:'studentInfo'

});

con.connect(function(err){
  if(err){
    throw err;
  }
  console.log('Connected!!!');
});

module.exports=con;
```

## **run.js**

```
var express=require('express');
var mysql=require('mysql');
var db=require('./dbConnection');
var session=require('express-session');
var flash=require('express-flash');

var app=express();

var bp=require('body-parser');
const {stringfy}=require('querystring');
const { error } = require('console');
app.use(bp.json());
app.use(bp.urlencoded({extended:true}));

app.use(flash());
app.use(session({
  secret:'your-strong-and-unique-secret',
  resave:false,
  saveUninitialized:true,
  cookie:{ maxAge:7000 }
}));

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

app.post('/auth',function(req,res){
```

```

    let username=req.body.username;
    let password=req.body.password;
    if(username && password){
        db.query('SELECT * FROM login WHERE username = ? AND password = ?',
[username, password],function(error, results){
            if(error){
                throw error;
            }
            if(results.length>0){
                req.session.loggedin=true;
                req.session.username=username;
                res.redirect('/register');
            }
            else{
                res.send('Incorrect UserName OR Password');
            }
            res.end();
        });
    }
    else{
        res.send('Please Enter UserName And Password!');
        res.end();
    }
});

app.get('/register',function(req,res){
    if(req.session.loggedin){
        res.sendFile(__dirname+'/register.html');
    }else{
        res.send('Please Login to View this page..');
    }
});

app.post('/formSubmit',function(req,res){
    if(req.session.loggedin){

        var name=req.body.name;
        var date=req.body.date;
        var gender=req.body.gender;
        var cls=req.body.cls;
        var regCode=req.body.regCode;

        var sql=`insert into register(name,date,gender,class,regCode) values("${name}",
"${date}", "${gender}", "${cls}", "${regCode}")`;
        db.query(sql,function(err,result){
            if(err){
                throw err;
            }
            console.log('record inserted');
            req.flash('success','Data Added Successfully');

```



```

        res.redirect('/register');
    });
}
else{
    res.send('Please Login to view this Page');
}
});

app.get('/logout',function(req,res){
    req.session.destroy((err)=>{
        res.redirect('/');
    });
});

app.listen(5001,()=>{
    console.log("server is running")
});

```

**Output:-**

**Login Table-**

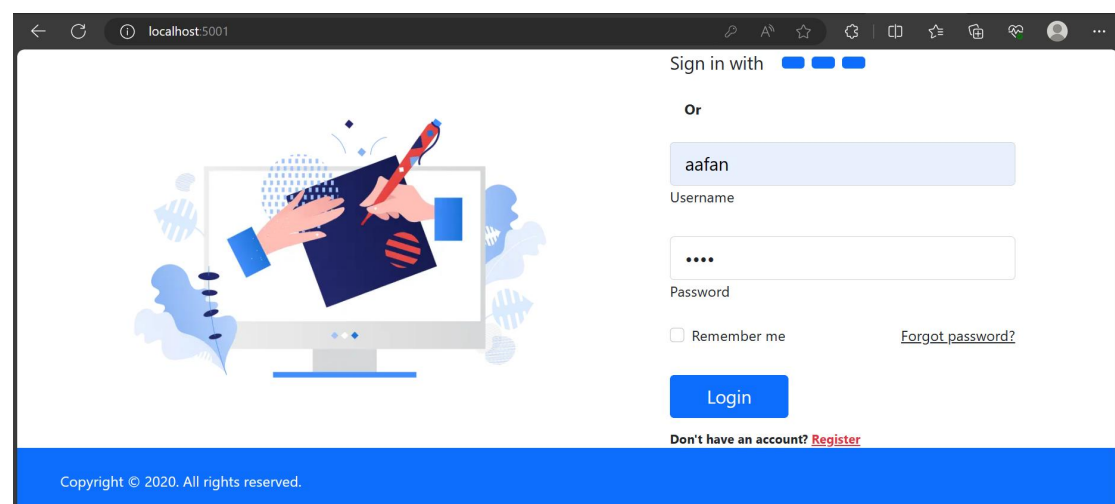
Extra options	
username	password
aafan	1234

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

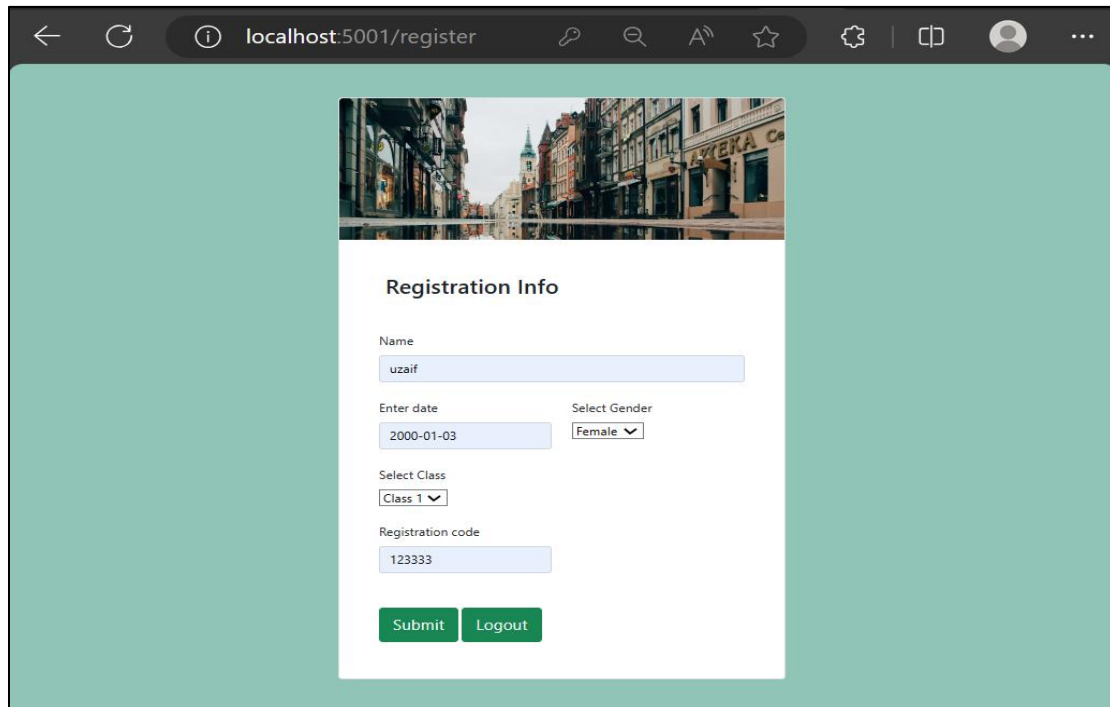
PS D:\MCA\WT\exp> node run.js
server is running
Connected!!!

```



## Register Table:-

name	date	gender	class	regCode
Omkar Vele	2001-01-20	Male	Class2	4376562
abccc	2002-01-23	Female	Class1	505050
virat	2001-01-23	Male	Class1	505050
aafan ashraf kotawdekar	2000-04-03	Female	Class1	111232
Main File	2023-11-22	Female	Class1	20231122
Rupali	2000-04-03	Female	Class1	21312



The screenshot shows a web browser window with the address bar displaying 'localhost:5001/register'. The page has a teal background with a city street image at the top. A white registration form is centered on the page. The form contains the following fields and controls:

- Name:** A text input field with the value 'uzaif'.
- Enter date:** A date input field with the value '2000-01-03'.
- Select Gender:** A dropdown menu with 'Female' selected.
- Select Class:** A dropdown menu with 'Class 1' selected.
- Registration code:** A text input field with the value '123333'.
- Buttons:** Two green buttons labeled 'Submit' and 'Logout' at the bottom of the form.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\MCA\WT\exp> node run.js
server is running
Connected!!!
record inserted
```

name	date	gender	class	regCode
Omkar Vele	2001-01-20	Male	Class2	4376562
abccc	2002-01-23	Female	Class1	505050
virat	2001-01-23	Male	Class1	505050
aafan ashraf kotawdekar	2000-04-03	Female	Class1	111232
Main File	2023-11-22	Female	Class1	20231122
Rupali	2000-04-03	Female	Class1	21312
uzaif	2000-01-03	Female	Class1	123333