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MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
DIRECTORATE GENERAL OF TRAINING
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NSTI(W) Trivandrum

CERTIFICATE

This is to certify that following trainees have completed their project
titled

“Registration and Login System for Online Course”

For IBM Program – IT, Networking and Cloud (Technical Diploma)

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ABSTRACT

Registration and Login System for Online Courses is a software that is used for easy registration and thereby logging in to the site for attending online classes for students. This system is mainly directed towards the learners of online courses. The students interested in attending online courses can register easily with easy access to the internet on their own. They can login to the courses after registering very easily and attend classes.

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INTRODUCTION

1.1 ABOUT PROJECT

This project is developed for the registration and login processes of students for attending online classes. Here provides a registration form where the students interested for online classes can register themselves by providing the necessary details like username, password, email id etc and they can login into the platform where the class is conducted inorder to attend the classes. The registration form and processes are done using node js and html. The details of the registered students are stored in the mysql database and are retrieved in the site at the time of logging in to attend the class. Students can also view their profiles on the site. Thus making the process of online learning and registering and logging in made easy for the students.

1.2 USERS

The users of this project are the students or learners who wants learn online courses by registering and logging in to the site which provides the online courses.

2. SYSTEM ANALYSIS

2.1 SOFTWARE REQUIREMENTS

Operating System : Windows 7 or above

Text Editor : Visual Studio Code

Front End : HTML, CSS, JavaScript, Bootstrap

Back End : Node.js, MySQL

Node.js Packages : Express, MySQL

Browser : Google Chrome/Microsoft Edge/Mozilla Firefox

2.2 HARDWARE REQUIREMENTS

- A working PC
- RAM 4GB or higher
- Processor 1GHz or more
- Hard drive 32 GB or above
- Stable network connectivity

3. PROPOSED SYSTEM

In this digital era, many students and teachers depend on the online method of learning and teaching. Because it is easy to access due to the easy access of the internet for everyone. We are in a pandemic situation too. So nowadays online methods of teaching and learning are preferred by teachers and students. Other than the curriculum from schools and colleges students can also learn many other online courses easily. It will be very helpful to them in their academics. So many students and pupils choose to learn many free and paid online courses nowadays. Everyone is trying to improve themselves in terms of career and academics. So it's natural that students focus on attending online courses.

This project provides the process of registering and logging in for online courses. A registration form focusing on the important and only necessary details of the interested students is made so that the students can register to the course. They can log in to the site providing the course and attend the course easily. They can also view their profile which has the details they provided at the time of registration.

4. APPENDICES

4.1 SOURCE CODE

app.js

```
var express = require('express')
  , routes = require('./routes')
  , user = require('./routes/user')
  , http = require('http')
  , path = require('path');
var session = require('express-session');
var app = express();
var mysql      = require('mysql');
var bodyParser=require("body-parser");
var connection = mysql.createConnection({
  host      : 'localhost',
  user      : 'root',
  password  : '',
  database  : 'onlinecourse'
});

connection.connect();

global.db = connection;

app.set('port', process.env.PORT || 8080);
app.set('views', __dirname + '/views');
app.set('view engine', 'ejs');
app.use(bodyParser.urlencoded({ extended: false }));
app.use(bodyParser.json());
app.use(express.static(path.join(__dirname, 'public')));
app.use(session({
  secret: 'keyboard cat',
  resave: false,
  saveUninitialized: true,
  cookie: { maxAge: 60000 }
}))

app.get('/', routes.index);
app.get('/signup', user.signup);
app.post('/signup', user.signup);
app.get('/login', routes.index);
```

```

app.post('/login', user.login);
app.get('/home/dashboard', user.dashboard);
app.get('/home/logout', user.logout);
app.get('/home/profile', user.profile);
app.listen(8080)

```

user.js

```

exports.signup = function(req, res){
  message = '';
  if(req.method == "POST"){
    var post = req.body;
    var username = post.username;
    var password = post.password;
    var fname= post.first_name;
    var lname= post.last_name;
    var cls= post.class;
    var email= post.email_id;
    var mobile= post.mobile;
    if(username !='' && password!='') {
      var sql = "INSERT INTO
`students`(`first_name`,`last_name`,`class`,`email_id`,`mobile`,`userna
me`,`password`) VALUES ('" + fname + "','" + lname + "','" + cls +
'"','" + email + "','" + mobile + "','" + username + "','" + password +
"');"

      var query = db.query(sql, function(err, result) {
        message = "Your account has been created succesfully.";
        res.render('signup.ejs',{message: message});
      });
    } else {
      message = "Username and password is mandatory field.";
      res.render('signup.ejs',{message: message});
    }

  } else {
    res.render('signup');
  }
};

exports.login = function(req, res){
  var message = '';
  var sess = req.session;

```

```

    if(req.method == "POST"){
        var post  = req.body;
        var username = post.username;
        var password= post.password;

        var sql="SELECT id, first_name, last_name, username FROM
`students` WHERE `username`='"+username+"' and password =
'"+password+"'";
        db.query(sql, function(err, results){
            if(results.length){
                req.session.userId = results[0].id;
                req.session.user = results[0];
                console.log(results[0].id);
                res.redirect('/home/dashboard');
            }
            else{
                message = 'You have entered invalid username or password.';
                res.render('index.ejs',{message: message});
            }

        });
    } else {
        res.render('index.ejs',{message: message});
    }

};

```

```

exports.dashboard = function(req, res, next){

    var user = req.session.user,
        userId = req.session.userId;
    console.log('ddd='+userId);
    if(userId == null){
        res.redirect("/login");
        return;
    }

    var sql="SELECT * FROM `students` WHERE `id`='"+userId+"'";

    db.query(sql, function(err, results){
        res.render('dashboard.ejs', {data:results});
    });
}

```

```
};

exports.profile = function(req, res){

    var userId = req.session.userId;
    if(userId == null){
        res.redirect("/login");
        return;
    }

    var sql="SELECT * FROM `students` WHERE `id`='"+userId+"'";
    db.query(sql, function(err, result){
        res.render('profile.ejs',{data:result});
    });
};
```

```
exports.logout=function(req,res){
    req.session.destroy(function(err) {
        res.redirect("/login");
    })
};
```

index.js

```
/*
 * GET home page.
 */

exports.index = function(req, res){
    var message = '';
    res.render('index',{message: message});

};
```

signup.ejs

```
<%- include('header'); -%>
<%- include('container'); -%>
<body>
    <div class="container col-sm-12" id="mainform">
        <div id="signupbox" style=" margin-top:50px" class="mainbox
col-md-6 col-md-offset-3 col-sm-8 col-sm-offset-2">
            <div class="panel panel-info">
```

```

        <div class="panel-heading" style="background-color:
rgb(176, 211, 211);">
            <div class="panel-title" style="font-size:
30px;">Registration for Students</div>
            <div style="float:right; font-size: 18px; position:
relative; top:-20px"><a id="signinlink" href="/">Sign In</a></div>
        </div>
        <div class="panel-body" >
            <form class="form-horizontal" role="form"
method="post" action="/signup">
                <% if (message.length > 0) { %>
                <div class="alert alert-success col-sm-12"><%=
message %></div>
                <% } %>
                <div id="signupalert" style="display:none"
class="alert alert-danger">
                    <p>Error:</p>
                    <span></span>
                </div>
                <div class="form-group">
                    <label for="username" class="col-md-3
control-label">Username</label>
                    <div class="col-md-9">
                        <input type="text" class="form-control"
name="username" placeholder="username">
                    </div>
                </div>
                <div class="form-group">
                    <label for="password" class="col-md-3
control-label">Password</label>
                    <div class="col-md-9">
                        <input type="password"
class="form-control" name="password" placeholder="Password">
                    </div>
                </div>
                <div class="form-group">
                    <label for="first_name" class="col-md-3
control-label">First Name</label>
                    <div class="col-md-9">
                        <input type="text" class="form-control"
name="first_name" placeholder="First Name">
                    </div>
                </div>
            </form>
        </div>

```

```

        <div class="form-group">
            <label for="last_name" class="col-md-3
control-label">Last Name</label>
            <div class="col-md-9">
                <input type="text" class="form-control"
name="last_name" placeholder="Last Name">
            </div>
        </div>
        <div class="form-group">
            <label for="last_name" class="col-md-3
control-label">Class/Standard</label>
            <div class="col-md-9">
                <input type="text" class="form-control"
name="class" placeholder="Class/Standard">
            </div>
        </div>
        <div class="form-group">
            <label for="last_name" class="col-md-3
control-label">Email id</label>
            <div class="col-md-9">
                <input type="text" class="form-control"
name="email_id" placeholder="Email id">
            </div>
        </div>
        <div class="form-group">
            <label for="mob_no" class="col-md-3
control-label">Mobile</label>
            <div class="col-md-9">
                <input type="number"
class="form-control" name="mobile" placeholder="Mobile Number">
            </div>
        </div>
        <div class="form-group">
            <div class="col-md-offset-3 col-md-9">
                <button id="btn-signup" style=" width:
160px; border-style: ridge; border-color: rgb(176, 211, 211);
border-width: 5px; border-radius: 2px;" type="submit" class="btn
btn-info"><i class="icon-hand-right"></i> &nbsp; Register</button>
            </div>
        </div>
    </form>
</div>
</div>

```

```

        </div>
    </div>
<%- include('footer'); -%>

```

profile.ejs

```

<%- include('header'); -%>
<%- include('container'); -%>
<div class="row">
    <div>
        <div class="panel panel-info">
            <div class="panel-heading" style="background-color: rgb(176,
211, 211);">
                <span style="font-size: 30px;">Logged In:
<%=data[0].username%></span>
                <span style="font-size: 25px;" class="pull-right"><a
href="/home/logout">Logout</a></span>
            </div>
            <div class="panel-body">
                <div class="row">

                    <div class=" col-md-9 col-lg-9 ">
                        <table class="table table-user-information">
                            <tbody>
                                <tr>
                                    <td>Name:</td>
                                    <td><%=data[0].first_name%>
<%=data[0].last_name%></td>
                                </tr>
                                <tr>
                                    <td>User Name:</td>
                                    <td><%=data[0].username%></td>
                                </tr>
                                <tr>
                                    <td>Class/Standard:</td>
                                    <td><%=data[0].class%></td>
                                </tr>
                                <tr>
                                    <td>Email id:</td>
                                    <td><%=data[0].email_id%></td>
                                </tr>
                                <tr>
                                    <td>
                                </tr>

```

```

        <td>Mobile:</td>
        <td><%=data[0].mobile%></td>
    </tr>
</tbody>
</table>
</div>
</div>
</div>
</div>
<%- include('footer'); -%>

```

index.ejs

```

<%- include('header'); -%>
<%- include('container'); -%>
<body>
    <div class="container">
        <div id="loginbox" style="margin-top:50px;" class="mainbox
col-md-6 col-md-offset-3 col-sm-8 col-sm-offset-2">
            <div class="panel panel-info" >
                <div class="panel-heading" style="background-color:
rgb(176, 211, 211);">
                    <div class="panel-title" style="font-size:
30px;">Student Sign In</div>
                </div>
                <div style="padding-top:30px" class="panel-body" >
                    <% if (message.length > 0) { %>
                        <div class="alert alert-danger col-sm-12"><%=
message %></div>
                    <% } %>
                    <form id="loginform" class="form-horizontal"
role="form" method="post" action="/login">
                        <div style="margin-bottom: 25px"
class="input-group">
                            <span class="input-group-addon"><i
class="glyphicon glyphicon-user"></i></span>
                            <input id="login-username" type="text"
class="form-control" name="username" value="" placeholder="username">
                        </div>
                        <div style="margin-bottom: 25px"
class="input-group">
                            <span class="input-group-addon"><i
class="glyphicon glyphicon-lock"></i></span>

```



```

        <input id="login-password" type="password"
class="form-control" name="password" placeholder="password">
    </div>
    <div style="margin-top:10px"
class="form-group">
        <div class="col-sm-12 controls">
            <button id="btn-login" type="submit"
class="btn btn-success" style=" width: 160px; border-style: ridge;
border-color: rgb(176, 211, 211); border-width: 5px; border-radius:
2px; background-color: rgba(0, 206, 209, 0.829);">Login </button>
        </div>
    </div>
    <div class="form-group">
        <div class="col-md-12 control" >
            <div style="border-top: 1px solid#888;
padding-top:15px; font-size:85%" >
                <span style="font-size: large;">Click
here to register:
                <a href="/signup">Register
Now!</a></span>
            </div>
        </div>
    </div>
</form>
</div>
</div>
</div>
</div>
</div>
<%- include('footer'); -%>

```

dashboard.ejs

```

<html lang="en">
<%- include('header'); -%>
<%- include('container'); -%>
    <div class="jumbotron">
        <h1>PROGRAMMING COURSES FOR STUDENTS</h1>
        <p>Our website helps students to learn programming easily. We
provide online courses on a variety of programming languages and
scripting languages that students are interested in.</p>
        <p>Take a look around:</p>
        <ul>
            <li style="color: blue; font-size: large;">HTML</li>
            <li style="color: blue; font-size: large;">CSS</li>

```

```

        <li style="color: blue; font-size: large;">JAVA</li>
        <li style="color: blue; font-size: large;">PHP</li>
        <li style="color: blue; font-size: large;">JavaScript</li>
        <li style="color: blue; font-size: large;">Python</li><br>
    </ul>
    <p>
        <a href="/home/profile">View Profile</a>
    </p>
</div>
<%- include('footer'); -%>

```

package.json

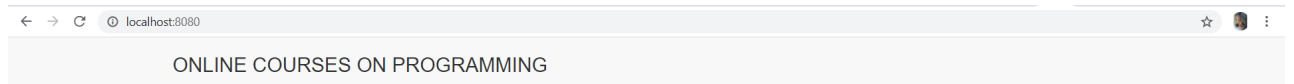
```

{
  "name": "user_authentication_nodejs",
  "version": "1.0.0",
  "main": "app.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies": {
    "body-parser": "^1.19.0",
    "ejs": "^3.0.1",
    "express": "^4.17.1",
    "express-session": "^1.17.0",
    "mysql": "^2.18.1",
    "req-flash": "0.0.3"
  },
  "devDependencies": {},
  "description": ""
}


```


4.2 SCREENSHOTS

home



Student Sign In

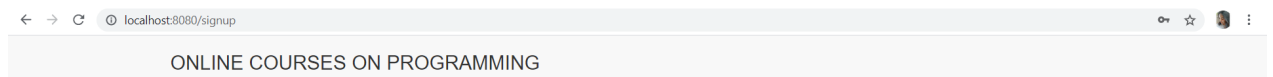
 username

 password

Login

Click here to register: [Register Now!](#)

registration form



Registration for Students

[Sign In](#)

Your account has been created succesfully.

Username

username

Password

Password

First Name

First Name

Last Name

Last Name

Class/Standard

Class/Standard

Email Id

Email Id

Mobile

Mobile Number

Register

entering details

← → ↺ localhost:8080/signup

ONLINE COURSES ON PROGRAMMING

Registration for Students

[Sign In](#)

Username	<input type="text" value="salman2001"/>
Password	<input type="password" value="....."/>
First Name	<input type="text" value="Salman"/>
Last Name	<input type="text" value="Faizi"/>
Class/Standard	<input type="text" value="10"/>
Email id	<input type="text" value="salman223@gmail.com"/>
Mobile	<input type="text" value="9987691789"/>

Register

registration complete

← → ↺ localhost:8080/signup

ONLINE COURSES ON PROGRAMMING

Registration for Students

[Sign In](#)

Your account has been created successfully.

Username	<input type="text" value="username"/>
Password	<input type="password" value="Password"/>
First Name	<input type="text" value="First Name"/>
Last Name	<input type="text" value="Last Name"/>
Class/Standard	<input type="text" value="Class/Standard"/>
Email id	<input type="text" value="Email id"/>
Mobile	<input type="text" value="Mobile Number"/>


Register


logging in

← → ↻ localhost:8080

ONLINE COURSES ON PROGRAMMING

Student Sign In

salman2001

*****

Login

Click here to register: [Register Now!](#)

dashboard

← → ↻ localhost:8080/home/dashboard

ONLINE COURSES ON PROGRAMMING

PROGRAMMING COURSES FOR STUDENTS

Our website helps students to learn programming easily. We provide online courses on a variety of programming languages and scripting languages that students are interested in.

Take a look around:

- [HTML](#)
- [CSS](#)
- [JAVA](#)
- [PHP](#)
- [JavaScript](#)
- [Python](#)

[View Profile](#)

view profile

← → ↻ localhost:8080/home/profile ☆ 👤 ⋮

ONLINE COURSES ON PROGRAMMING

Logged In: salman2001

Logout

Name:	Salman Faizi
User Name:	salman2001
Class/Standard:	10
Email id:	salman223@gmail
Mobile:	2147483647

logged out

← → ↻ localhost:8080/login ☆ 👤 ⋮

ONLINE COURSES ON PROGRAMMING

Student Sign In

👤

username

🔒

password

Login

Click here to register: [Register Now!](#)

database

/phpmyadmin/index.php?route=/table/structure&db=onlinecourse&table=students

Server: 127.0.0.1 » Database: onlinecourse » Table: students

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

Triggers

Table structure

Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id	int(5)		No	None			Change Drop More
<input type="checkbox"/>	2	first_name	text	latin1_swedish_ci	No	None			Change Drop More
<input type="checkbox"/>	3	last_name	text	latin1_swedish_ci	No	None			Change Drop More
<input type="checkbox"/>	4	class	varchar(10)	latin1_swedish_ci	No	None			Change Drop More
<input type="checkbox"/>	5	email_id	varchar(15)	latin1_swedish_ci	No	None			Change Drop More
<input type="checkbox"/>	6	mobile	int(11)		No	None			Change Drop More
<input type="checkbox"/>	7	username	varchar(20)	latin1_swedish_ci	No	None			Change Drop More
<input type="checkbox"/>	8	password	varchar(15)	latin1_swedish_ci	No	None			Change Drop More

☐ Check all

With selected:

Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns

Remove from central columns

Print

Preview table structure

Track table

Move columns

Normalize

5. CONCLUSION

The purpose of this project was to build a registration and login system for online courses for students or learners. The project was successfully developed. The students or learners can easily register their details using the registration form. Further they can login to the site which provides online courses to attend the courses and learn. Registered students can also view their profiles on the site. After registration students can only login using their username and password thus protection and security are also included. The project can be given further modifications and updates in future and modified.

6. REFERENCE

- <https://way2tutorial.com/>
- <https://www.geeksforgeeks.org/>