Project Report

Web Programming

15IT304J

Student Management System

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Submitted To:

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Contents

Introduction

This project showcases how different web tools and languages can be used to maintain a database and provide an interactive front-end and back-end user experience.

The project consists of:

- A homepage which serve as a welcome page for the user and provides some basic information and links for the institution.
- A student's portal which allows the user to request information about a student by providing some credentials. It also contains an option to provide feedback via a form.
- An admin login page where user with administrator credentials can access the database.

- An admin's portal where the admin gets the option to add, display, delete and update the data from the database.
- A SQL database server which stores the information of students.

Tools & languages used:

1. HTML

   Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser.

2. Php

   PHP is a general-purpose scripting language especially suited to web development.

3. XML

   Extensible Markup Language is a markup language that defines a set of rules for encoding documents in a format that is both human-readable and machine-readable.

4. JavaScript

   JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-

bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions.

5. CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.

6. AJAX

Ajax is a set of web development techniques using many web technologies on the client side to create asynchronous web applications.

7. XAMPP

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages.

8. SQL

    SQL is a domain-specific language used in programming and designed for managing data held in a relational database management system, or for stream processing in a relational data stream management system.

9. Visual Studio Code

    Visual Studio Code is a free source-code editor made by Microsoft for Windows, Linux and macOS.

Code & Screenshots

(experiment wise)

1. **Create a simple webpage using HTML5 Semantic and Structural Elements.**

   Used in: /SMS_1165_1486_1439/Project/SMS/index.html

```html
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
        <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.0/jquery.min.js"></script>
        <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
        <style>
            body{
                background: url('school.jpg');
            }
             a:hover{
    background-color: burlywood !important;
  }


            .add{
    background-color:#d9534f;
    color:white !important;
    font-size:30px;
    text-align: center;
  }

 .display{
    background-color:#5cb85c;
    color:white !important;
    font-size:30px;
```

```css
        text-align:center;
    }
    .update{
        background-color:#5bc0de;
        color:white !important;
        font-size:30px;
        text-align:center;
    }
    .delete{
            background-color:#DF691A;
        color:white !important;
        font-size:30px;
      text-align : center
    }
    .container {
    width: 500px;
    clear: both;
}

.container input {
    width: 100%;
    clear: both;
}
footer{
            display: block;
            margin: 40px auto 60px;
            padding: 35px;
            background: rgba(129, 9, 33, 0.452);
            text-decoration-color: lawngreen;
        }
        header {
        background-repeat: no-repeat;
        background-attachment: fixed;
        background-size: cover;   }
        section{
            display: block;
            width: fit-content;
            margin: 40px auto 60px;
            padding: 15px;
            background: rgba(34, 7, 2, 0.473);
        }
            </style>
    </head>
    <body>
        <section>
```

```html
        <article>
            <header>
                <h3>Web Programming mini project</h3>
            </header>
        </article>
    </section>

    <section>
    <div class="container">

        <h1 style="color:darkorchid;text-
align: center">Student Management System</h1>
        <hr>
        <div class="list-group">
            <nav>
            <a href="studentform.html" class="list-group-
item add">Add Student</a><br>
            <a href="display.php" class="list-group-
item display">Display Student</a><br>
            <a href="fileup.php" class="list-group-
item update">Edit Student</a><br>
            <a href="delete.php" class="list-group-
item delete">Delete Student</a><br>
            <a href="..\index.html" class="list-group-item display">Exit</a><br>
            </nav>
        </div>
    </section>
        <footer>
            <p><h3>Kartikeya Sharma, Akash Gakhar, Yash Choudhary</h3></p>
            </p>
        </footer>
    </div>
    </body>
</html>
```
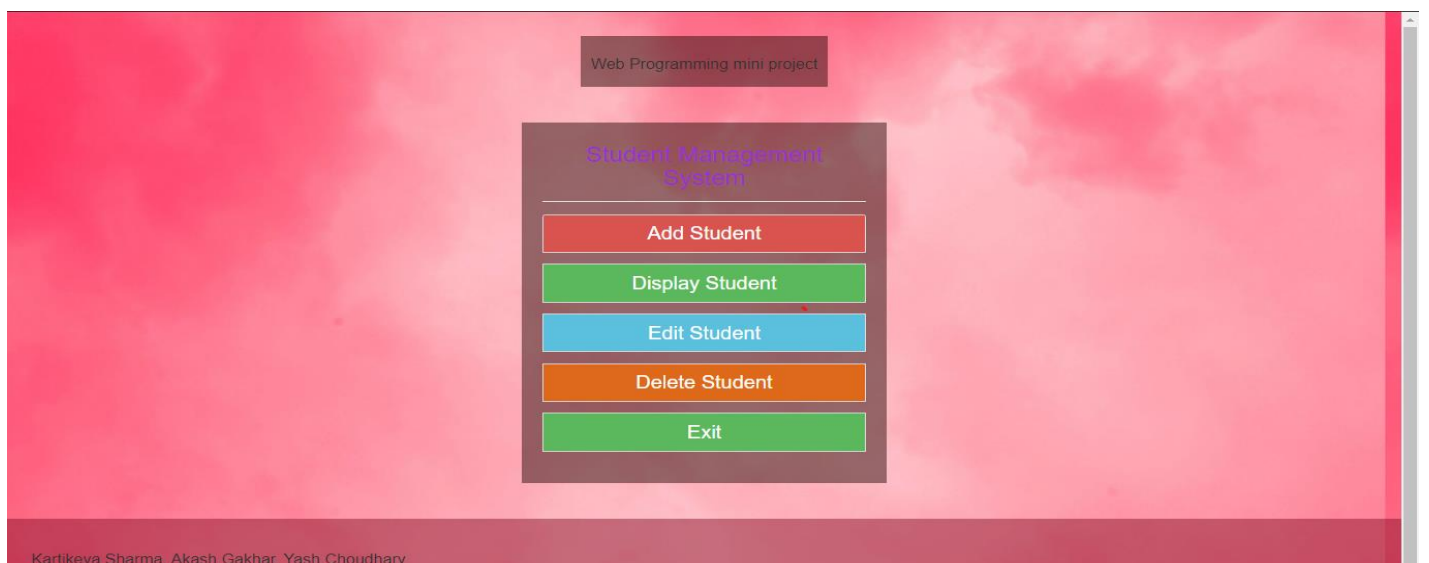
2. Create a webpage using HTML5 Media Elements.

Used in: ../SMS_1165_1486_1439/Project/index.html

```
<div class="row">
            <div class="col-lg-12 text_align_center">
                <div class="full heading_s1">
                    <iframe width="800" height="498" src="https://www.youtube.co
m/embed/7qjZH3h1vKw" frameborder="0" allow="accelerometer; autoplay; clipboard-
write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
                    <h2>Our Courses</h2>
                </div>
                <div class="full">
                    <p class="large">We have 3 major courses to choose from.</p>
                </div>
            </div>
        </div>
<div class="row">

            <div class="col-md-4 text_align_center">
                <div class="cours">
                    <img class="img-responsive" src="images/cour1.png" alt="#" />
                </div>
                <h3>Course A</h3>
                <p>This is the first course.</p>
            </div>

            <div class="col-md-4 text_align_center">
                <div class="cours">
                    <img class="img-responsive" src="images/cour2.png" alt="#" />
                </div>
                <h3>Course B</h3>
                <p>This is the second course.</p>
            </div>

            <div class="col-md-4 text_align_center">
                <div class="cours">
                    <img class="img-responsive" src="images/cour3.png" alt="#" />
                </div>
                <h3>Course C</h3>
                <p>This is the third course.</p>
            </div>
        </div>
    </div>
```

3. Add a Cascading Style sheet for designing the web page.
Used in:

```
<style>
            body{
                background: url('school.jpg');
            }
             a:hover{
    background-color: burlywood !important;
 }


            .add{
    background-color:#d9534f;
    color:white !important;
    font-size:30px;
    text-align: center;
 }

.display{
    background-color:#5cb85c;
    color:white !important;
    font-size:30px;
    text-align:center;
 }
```

```css
    .update{
        background-color:#5bc0de;
        color:white !important;
        font-size:30px;
        text-align:center;
    }
    .delete{
            background-color:#DF691A;
        color:white !important;
        font-size:30px;
      text-align : center
    }
    .container {
    width: 500px;
    clear: both;
}

.container input {
    width: 100%;
    clear: both;
}
footer{
            display: block;
            margin: 40px auto 60px;
            padding: 35px;
            background: rgba(129, 9, 33, 0.452);
            text-decoration-color: lawngreen;
        }
        header {
        background-repeat: no-repeat;
        background-attachment: fixed;
        background-size: cover;  }
        section{
            display: block;
            width: fit-content;
            margin: 40px auto 60px;
            padding: 15px;
            background: rgba(34, 7, 2, 0.473);
        }
            </style>
```

4. Design a dynamic web page with validation using JavaScript.

Used in: .. /SMS_1165_1486_1439/Project/SMS/login.php

```
    <script>
function validate(){
    var a = document.getElementById('abc').value;
    if(a=="")
    {
        alert("Username can't be blank");
    }
}
    </script>
```

5. Simple applications using AJAX & XML.

Used in: .. /SMS_1165_1486_1439/Project/index.html

```html
<button type="button" onclick="loadDoc()" class="button">Branch Details</button>
    <br><br>
    <table id="demo" ></table>

    <script>
        function loadDoc() {
            var xhttp = new XMLHttpRequest();
            xhttp.onreadystatechange = function() {
                if (this.readyState == 4 && this.status == 200) {
                    myFunction(this);
                }
            };
            xhttp.open("GET", "new.xml", true);
            xhttp.send();
        }
        function myFunction(xml) {
            var i;
            var xmlDoc = xml.responseXML;
            var table="<tr><th>Name</th><th>Year</th></tr>";
            var x = xmlDoc.getElementsByTagName("branch");
            for (i = 0; i <x.length; i++) {
                table += "<tr><td>" +
                x[i].getElementsByTagName("name")[0].childNodes[0].nodeValue
+
                "</td><td>" +
                x[i].getElementsByTagName("year")[0].childNodes[0].nodeValue
+
                "</td></tr>";
            }
            document.getElementById("demo").innerHTML = table;
        }
    </script>
```

**Branch
Details**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<university>
    <branch>
        <name>KTR</name>
        <year>1323</year>
    </branch>
    <branch>
        <name>RMP</name>
        <year>1354</year>
    </branch>
        <branch>
        <name>NCR</name>
        <year>1569</year>
    </branch>
        <branch>
        <name>AMR</name>
        <year>2931</year>
    </branch>
        <branch>
        <name>SIK</name>
        <year>2731</year>
    </branch>
</university>
```

**Branch
Details**

Name	Year
KTR	1323
RMP	1354
NCR	1569
AMR	2931
SIK	2731

6. Design a simple online test web page in PHP.

Used in: .. /SMS_1165_1486_1439/Project/SMS/index.php

```php
<?php
if(isset($_POST['submit']))// check  that submit  button is clicked or not
{
$id = $_POST['ID'];// get the value of std variable using post method
$name = $_POST['name']; // get the value of rollno variable using post method
include('dbcon.php');
include('function.php');
showdetails($id,$name);
}
?>
```

Additional Screenshots

Enter Details

Name:
Enter the Name

Father's Name:
Enter the Father's Name

Mother's Name:
Enter the Mother's Name

Contact:
Enter the Mobile Number

Class:
Enter the Class

Semester:
Enter the Semester

submit

Home

Student Details

ID	Name	Father's Name	Mother's name	Contact No.	Class	Semester
1	Morgan	Anthony	Pepper	3000	1	2
15	Cece	Jim	Pam	1234567890	3	8
16	Kartikeya	sdjj	jdksfj	878483	6	8

Home

Result/Conclusion

Student Management System is created by various web tools and languages.