## Chapter 1

**INTRODUCTION**

This database focuses on 5 aspects of a typical VTU result system:

* Student
* Department
* Internal Marks
* External Marks
* Subjects

This Application is intended for college authorities, professors, HODs, program coordinators etc. It is useful for anyone interested in learning about the exam performance of their respective purposes for analysis.

After choosing any of the options mentioned above, the intended users can select & view details such as:

* Students and their details like USN, name, department they belong to.
* Overview of Each Department, the department number and its strength
* The internal marks of any student for each internal conducted.
* The external marks obtained and the resulting grade.
* The list of available subjects and their codes.
* Analysis of pass/fail percentage for any given subject.

## Chapter 2

**Section 2.1**

**SYSTEM REQUIREMENTS**

**Hardware Requirements**

* **Processors:** Intel Pentium Dual Core or higher
* **Processor Speed:** 1.4 GHz
* **RAM:** 2 GB
* **Storage:** 500Mb

## Section 2.2

**Software Requirements**

* **Operating System:** Windows/Linux
* XAMPP/LAMPP, Apache and MySQL required to Stimulate DBMS Environment
* **Web Browser:** Google Chrome/Edge

## Chapter 3

**Section 3.1 Schema**

**DESIGN**

**STUDENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NAME** | **USN** | **BATCH** | **SEM** | **DNO.** |

**EXTERNAL MARKS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **USN** | **SEM** | **SUBCODE** | **EXTERNAL** | **TOTAL** | **RESULT** | **GRADE** |

**INTERNAL MARKS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SUBCODE** | **USN** | **SEM** | **IAT1** | **IAT2** | **IAT3** | **FINAL IAT** |

**DEPARTMENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **DNAME** | **DNO.** | **HOD** | **STRENGTH** |

**SUBJECTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **SUBCODE** | **CREDITS** | **DNO** |

**Section 3.2 ER Diagram**

**i**

Obtains

Obtains

Study in

for

Subjects

for

External

Internals

Dept

Student

**Chapter 4**

**Section 4.1**

**Home**

**Page**

**Section 4.1.1 HTML**

**<!DOCTYPE html>**

<html>

<head>

<link rel="stylesheet" href="home.css">

<style>

body {

font-family: 'Open Sans', sans-serif;

background:#3498db;

margin: 0 auto 0 auto;

width:100%;

text-align:center;

margin: 20px 0px 20px 0px;

}

.button {

background-color: #4CAF50; /\* Green \*/

border: none;

color: white;

padding: 16px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 20px;

margin: 4px 2px;

-webkit-transition-duration: 0.4s; /\* Safari \*/

transition-duration: 0.4s;

cursor: pointer;

}

.button1 {

background-color: white;

color: black;

border: 2px solid #4CAF50;

}

.button1:hover {

background-color: #4CAF50;

color: white;

}

</style>

</head>

<body>

<h1><font size="10">Result Management System</font></h1>

<p><font size="5"><b>Select an option from below</b></font</p>

<p><a href="./students/students.html" class="button button1">Students</a></p>

<p><a href="./department/departments.html" class="button button1">Departments</a></p>

<p><a href="./ia/internal\_marks.html" class="button button1">Internal Marks</a></p>

<p><a href="./ea/external\_marks.html" class="button button1">External Marks</a></p>

<p><a href="./subjects/subjects.html" class="button button1">Subjects</a></p>

<p><a href="./analysis/analysis.html" class="button button1">Analysis</a></p>

</body>

</html>

**Section 4.2**

**Students**

### Section 4.2.1 HTML

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

body {font-family: Arial, Helvetica, sans-serif;

background:#3498db}

\* {box-sizing: border-box;}

input[type=text], select, textarea {

width: 100%;

padding: 12px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

margin-top: 6px;

margin-bottom: 16px;

resize: vertical;

}

input[type=submit] {

background-color: #4CAF50;

color: white;

padding: 12px 20px;

border: none;

border-radius: 4px;

cursor: pointer;

}

input[type=submit]:hover {

background-color: #45a049;

}

.container {

border-radius: 5px;

background-color: #f2f2f2;

padding: 20px;

}

.button {

background-color: #4CAF50; /\* Green \*/

border: none;

color: white;

padding: 16px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

-webkit-transition-duration: 0.4s; /\* Safari \*/

transition-duration: 0.4s;

cursor: pointer;

}

.button1 {

background-color: white;

color: black;

border: 2px solid #4CAF50;

}

.button1:hover {

background-color: #4CAF50;

color: white;

}

</style>

</head>

<body>

<h1>Students<h1>

<p> </p>

<button onclick="location.href = window.location.href='/students/students\_show.php';" class="button button1">Show Table</button>

<h2>Insert Record</h2>

<div class="container">

<form action="students\_insert.php" method="post">

<label for="fname">Name</label>

<input type="text" id="fname" name="Name">

<label for="lname">USN</label>

<input type="text" id="usn" name="USN">

<label for="lname">Current Semester </label>

<input type="text" id="cur" name="Cur\_sem">

<label for="batch">Batch</label>

<input type="text" id="batch" name="Batch">

<label for="batch">Department Number</label>

<input type="text" id="deptno" name="Dno">

<input type="submit" value="Submit">

</form>

</div>

<h2>Update Record</h2>

<div class="container">

<form action="student\_update.php" method="post">

<label for="lname">Enter USN of record to be updated</label>

<input type="text" id="u" name="usnc">

<h3>Enter Update Details</h3>

<label for="fname">Name</label>

<input type="text" id="fname" name="name">

<label for="lname">USN</label>

<input type="text" id="u" name="usn">

<label for="lname">Current Semester</label>

<input type="text" id="cur\_semester" name="cur\_sem">

<label for="batch">Batch</label>

<input type="text" id="batc" name="batch">

<label for="batch">Department Number</label>

<input type="text" id="deptno" name="dno">

<input type="submit" value="Submit">

</form>

</div>

<h2>Delete Record</h2>

<div class="container">

<form action="students\_del.php" method="post">

<label for="lname">Enter USN of record to be Deleted</label>

<input type="text" id="usn" name="usn">

<input type="submit" value="Submit">

</form>

</div>

</body>

</htm>

### Section 4.2.2

**PHP**

Students Show

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

echo '<html><head><br>Students Table :<br><style>table, th, td {border: 1px solid black;}</style></head><body><table><tr>';

$sql = "CALL disp\_student()";

$result = $conn->query($sql);

if ($result->num\_rows > 0) {

// output data of each row

// $fieldinfo=mysqli\_fetch\_fields($result);

$val=array();

while($fieldinfo=mysqli\_fetch\_field($result)){

$val[]=$fieldinfo->name;

echo '<th>'.$fieldinfo->name.'</th>' ;

}

echo '</tr>';

while($row = $result->fetch\_assoc()) {

echo '<tr> ';

foreach ($val as $valu){

echo '<td>'.$row[$valu].'</td>';

}

echo '</tr>';

}

echo '</table>';

}

echo '</body></html>';

$conn->close();

?>

Students Insert

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "INSERT INTO Students values(".$\_POST["USN"].",'".$\_POST["Name"]."',".$\_POST["Cur\_sem"].",".$\_POST["Dno"].",'".$\_POST["Batch"]."')";

if ($conn->query($sql) === TRUE) {

echo "New record created successfully";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

$conn->close();

?>

Students Update

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$i=0;

$arr=array("usn","name","cur\_sem","batch","dno");

while($i<5){

if($\_POST[$arr[$i]]!=NULL){

if($arr[$i]=="name"||$arr[$i]=="batch")

$\_POST[$arr[$i]]="'".$\_POST[$arr[$i]]."'";

//echo "UPDATE Students SET ".$arr[$i]."=".$\_POST[$arr[$i]]." WHERE usn=".$\_POST["usnc"]."<br>";

$sql = "UPDATE Students SET ".$arr[$i]."=".$\_POST[$arr[$i]]." WHERE usn=".$\_POST["usnc"];

if ($conn->query($sql) === FALSE) {

echo $conn->error."<br>";

break;

}

else

echo $arr[$i]." is updated successfully.<br>";

}

$i=$i+1;

}

$conn->close();

?>

Students Delete

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "DELETE from Students WHERE usn=".$\_POST["usn"];

if ($conn->query($sql) === FALSE)

echo $conn->error."<br>";

else

echo "sucessfully deleted record";

$conn->close();

?>

**Section 4.3**

**DepartmentSection 4.3.1**

### HTML

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

body {font-family: Arial, Helvetica, sans-serif;

background:#3498db}

\* {box-sizing: border-box;}

input[type=text], select, textarea {

width: 100%;

padding: 12px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

margin-top: 6px;

margin-bottom: 16px;

resize: vertical;

}

.button {

background-color: #4CAF50; /\* Green \*/

border: none;

color: white;

padding: 16px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

-webkit-transition-duration: 0.4s; /\* Safari \*/

transition-duration: 0.4s;

cursor: pointer;

}

.button1 {

background-color: white;

color: black;

border: 2px solid #4CAF50;

}

</style>

</head>

<body>

<h1>Departments<h1>

<p> </p>

<button onclick="location.href = window.location.href='/department/department\_show.php';" class="button button1">Show Table</button>

<h2>Insert Record</h2>

<div class="container">

<form action="/department/department\_insert.php" method="post">

<label for="deptname">Department Name</label>

<input type="text" id="deptname" name="Dname">

<label for="deptno">Department Number</label>

<input type="text" id="deptno" name="Dno">

<label for="batch">Head of Department</label>

<input type="text" id="batch" name="HOD">

<input type="submit" value="Submit">

</form>

</div>

<h2>Update Record</h2>

<div class="container">

<form action="/department/dept\_update.php" method="post">

<label for="lname">Enter Department Number of record to be updated</label>

<input type="text" id="usn" name="dnoc">

<h3>Enter Update Details</h3>

<label for="fname">Department Name</label>

<input type="text" id="fname" name="name">

<label for="batch">Head of Department</label>

<input type="text" id="batch" name="hod">

<label for="batch">Department Number</label>

<input type="text" id="deptno" name="dno">

<input type="submit" value="Submit">

</form>

</div>

<h2>Delete Record</h2>

<div class="container">

<form action="/department/dept\_del.php" method="post">

<label for="lname">Enter Department Number of record to be deleted</label>

<input type="text" id="usn" name="dno">

<input type="submit" value="Submit">

</form>

</div>

</body>

</html>

### Section 4.3.2 PHP

## <?php

## $servername = "localhost";

## $username = "pavan";

## $password = "password";

## $dbname = "DBMS\_PROJECT";

## // Create connection

## $conn = new mysqli($servername, $username, $password, $dbname);

## // Check connection

## if ($conn->connect\_error) {

## die("Connection failed: " . $conn->connect\_error);

## }

## $sql = "INSERT INTO Departments values('".$\_POST["Dname"]."',".$\_POST["Dno"].",'".$\_POST["HOD"]."')";

## if ($conn->query($sql) === TRUE) {

## echo "New record created successfully";

## } else {

## echo "Error: " . $sql . "<br>" . $conn->error;

## }

## $conn->close();

## ?>

## <?php

## $servername = "localhost";

## $username = "pavan";

## $password = "password";

## $dbname = "DBMS\_PROJECT";

## // Create connection

## $conn = new mysqli($servername, $username, $password, $dbname);

## // Check connection

## if ($conn->connect\_error) {

## die("Connection failed: " . $conn->connect\_error);

## }

## echo '<html><head><style>table, th, td {border: 1px solid black;}</style></head><body>';

## echo '<br><br>Departments Table:<br><table><tr>';

## $sql = "CALL disp\_dept()";

## $result = $conn->query($sql);

## if ($result->num\_rows > 0) {

## // output data of each row

## // $fieldinfo=mysqli\_fetch\_fields($result);

## $val=array();

## while($fieldinfo=mysqli\_fetch\_field($result)){

## $val[]=$fieldinfo->name;

## echo '<th>'.$fieldinfo->name.'</th>' ;

## }

## echo '</tr>';

## while($row = $result->fetch\_assoc()) {

## echo '<tr> ';

## foreach ($val as $valu){

## echo '<td>'.$row[$valu].'</td>';

## }

## echo '</tr>';

## }

## echo '</table>';

## }

## echo '</body></html>';

## $conn->close();

## ?>

## <?php

## $servername = "localhost";

## $username = "pavan";

## $password = "password";

## $dbname = "DBMS\_PROJECT";

## // Create connection

## $conn = new mysqli($servername, $username, $password, $dbname);

## // Check connection

## if ($conn->connect\_error) {

## die("Connection failed: " . $conn->connect\_error);

## }

## $i=0;

## $arr=array("name","hod","dno");

## while($i<4){

## if($\_POST[$arr[$i]]!=NULL){

## if($arr[$i]=="name"||$arr[$i]=="hod")

## $\_POST[$arr[$i]]="'".$\_POST[$arr[$i]]."'";

## //echo "UPDATE Departments SET ".$arr[$i]."=".$\_POST[$arr[$i]]." WHERE dno='".$\_POST["dnoc"]."'"."<br>";

## $sql = "UPDATE Departments SET ".$arr[$i]."=".$\_POST[$arr[$i]]." WHERE dno='".$\_POST["dnoc"]."'";

## if ($conn->query($sql) === FALSE) {

## echo $conn->error."<br>";

## break;

## }

## else

## echo $arr[$i]." is updated successfully.<br>";

## }

## $i=$i+1;

## }

## $conn->close();

## ?>

## Section 4.4

**Internal Marks**

### Section 4.4.1 HTML

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

body {font-family: Arial, Helvetica, sans-serif;

background:#3498db}

\* {box-sizing: border-box;}

input[type=text], select, textarea {

width: 100%;

padding: 12px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

margin-top: 6px;

margin-bottom: 16px;

resize: vertical;

}

.button {

background-color: #4CAF50; /\* Green \*/

border: none;

padding: 16px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

}

</style>

</head>

<body>

<h1>Internal Marks</h1>

<p> </p>

<button onclick="location.href = window.location.href='/ia/ia\_show.php';" class="button button1">Show Table</button>

<h2>Insert Record</h2>

<div class="container">

<form action="ia\_insert.php" method="post">

<label for="fname">Subject Code</label>

<input type="text" id="fname" name="subcode">

<label for="lname">USN</label>

<input type="text" id="usn" name="usn">

<label for="batch">Semester</label>

<input type="text" id="batch" name="sem">

<label for="batch">IAT1</label>

<input type="text" id="deptno" name="ia1">

<label for="batch">IAT2</label>

<input type="text" id="deptno" name="ia2">

<label for="batch">IAT3</label>

<input type="text" id="deptno" name="ia3">

<input type="submit" value="Submit">

</form>

</div>

<h2>Update Record</h2>

<div class="container">

<form action="ia\_update.php" method="post">

<label for="lname">Enter USN of record to be updated</label>

<input type="text" id="usn" name="usnc">

<label for="lname">Enter sem of record to be updated</label>

<input type="text" id="us" name="semc">

<label for="lname">Enter subcode of record to be updated</label>

<input type="text" id="u" name="subcodec">

<h3>Enter Update Details</h3>

<label for="fname">Subject Code</label>

<input type="text" id="fname" name="subcode">

<label for="lname">USN</label>

<input type="text" id="usn" name="usn">

<label for="batch">Semester</label>

<input type="text" id="batch" name="sem">

<label for="batch">IAT1</label>

<input type="text" id="deptno" name="iat1">

<label for="batch">IAT2</label>

<input type="text" id="deptno" name="iat2">

<label for="batch">IAT3</label>

<input type="text" id="deptno" name="iat3">

<input type="submit" value="Submit">

</form>

</div>

<h2>Delete Record</h2>

<div class="container">

<form action="ia\_del.php" method="post">

<label for="lname">Enter USN of record to be deleted</label>

<input type="text" id="usn" name="usn">

<label for="fname">Subject Code</label>

<input type="text" id="fname" name="subcode">

<label for="batch">Semester</label>

<input type="text" id="batch" name="sem">

<input type="submit" value="Submit">

</form>

</div>

</body>

</html>

### Section 4.4.2

**PHP**

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

echo '<html><head><style>table, th, td {border: 1px solid black;}</style></head><body>';

echo '<br><br>Internal Marks :<br><table><tr>';

$sql = "CALL disp\_ia\_marks()";

$result = $conn->query($sql);

if ($result->num\_rows > 0) {

// output data of each row

// $fieldinfo=mysqli\_fetch\_fields($result);

$val=array();

while($fieldinfo=mysqli\_fetch\_field($result)){

$val[]=$fieldinfo->name;

echo '<th>'.$fieldinfo->name.'</th>' ;

}

echo '</tr>';

while($row = $result->fetch\_assoc()) {

echo '<tr> ';

foreach ($val as $valu){

echo '<td>'.$row[$valu].'</td>';

}

echo '</tr>';

}

echo '</table>';

}

echo '</body></html>';

$conn->close();

?>

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "INSERT INTO Internal\_Marks(usn,sem,subcode,iat1,iat2,iat3) values(".$\_POST["usn"].",".$\_POST["sem"].",'".$\_POST["subcode"]."',".$\_POST["ia1"].",".$\_POST["ia2"].",".$\_POST["ia3"].")";

if ($conn->query($sql) === TRUE) {

$conn->query("CALL update\_final(".$\_POST["usn"].",".$\_POST["sem"].",'".$\_POST["subcode"]."')");

if ($conn->query("CALL update\_final(".$\_POST["usn"].",".$\_POST["sem"].",'".$\_POST["subcode"]."')") === TRUE)

echo "New record created successfully";

else

echo $conn->error;

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

$conn->close();

?>

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$i=0;

$arr=array("usn","subcode","sem","iat1","iat2","iat3","final\_iat");

while($i<8){

if($\_POST[$arr[$i]]!=NULL){

if($arr[$i]=="subcode")

$\_POST[$arr[$i]]="'".$\_POST[$arr[$i]]."'";

//echo "UPDATE Students SET ".$arr[$i]."=".$\_POST[$arr[$i]]." WHERE usn=".$\_POST["usnc"]."<br>";

$sql = "UPDATE Internal\_Marks SET ".$arr[$i]."=".$\_POST[$arr[$i]]." WHERE subcode='".$\_POST["subcodec"]."' and sem=".$\_POST["semc"]." and usn=".$\_POST["usnc"];

if ($conn->query($sql) === FALSE) {

echo $conn->error."<br>";

break;

}

else

echo $arr[$i]." is updated successfully.<br>";

}

$i=$i+1;

}

$conn->close();

?>

**Section 4.5**

**External Marks Section 4.5.1**

### HTML

### <!DOCTYPE html>

### <html>

### <head>

### <meta name="viewport" content="width=device-width, initial-scale=1">

### <style>

### body {font-family: Arial, Helvetica, sans-serif;

### background:#3498db}

### \* {box-sizing: border-box;}

### .container {

### border-radius: 5px;

### background-color: #f2f2f2;

### padding: 20px;

### }

### .button {

### background-color: #4CAF50; /\* Green \*/

### border: none;

### color: white;

### padding: 16px 32px;

### text-align: center;

### text-decoration: none;

### display: inline-block;

### font-size: 16px;

### margin: 4px 2px;

### -webkit-transition-duration: 0.4s; /\* Safari \*/

### transition-duration: 0.4s;

### cursor: pointer;

### }

### </style>

### </head>

### <body>

### <h1>External Marks<h1>

### <p> </p>

### <button onclick="location.href = window.location.href='/ea/ea\_show.php';" class="button button1">Show Table</button>

### <h2>Insert Record</h2>

### <div class="container">

### <form action="/ea\_insert.php" method="post">

### <label for="fname">Subject Code</label>

### <input type="text" id="fname" name="subcode">

### <label for="lname">USN</label>

### <input type="text" id="usn" name="usn">

### <label for="batch">Semester</label>

### <input type="text" id="batch" name="sem">

### <label for="batch">External Marks</label>

### <input type="text" id="deptno" name="ea">

### <label for="batch">Total</label>

### <input type="text" id="deptno" name="total">

### <label for="batch">Result</label>

### <input type="text" id="deptno" name="result">

### <label for="batch">Grade</label>

### <input type="text" id="deptno" name="grade">

### <input type="submit" value="Submit">

### </form>

### </div>

### <h2>Update Record</h2>

### <div class="container">

### <form action="/ea/ea\_update.php" method="post">

### 

### <label for="lname">Enter USN of record to be updated</label>

### <input type="text" id="usn" name="usnc">

### <label for="lname">Enter sem of record to be updated</label>

### <input type="text" id="us" name="semc">

### <label for="lname">Enter subcode of record to be updated</label>

### <input type="text" id="u" name="subcodec">

### <h3>Enter Update Details</h3>

### <label for="fname">Subject Code</label>

### <input type="text" id="fname" name="subcode">

### <label for="lname">USN</label>

### <input type="text" id="usn" name="usn">

### <label for="batch">Semester</label>

### <input type="text" id="batch" name="sem">

### <label for="batch">External Marks</label>

### <input type="text" id="deptno" name="external">

### <label for="batch">Total</label>

### <input type="text" id="deptno" name="total">

### <label for="batch">Grade</label>

### <input type="text" id="deptno" name="grade">

### <label for="batch">Result</label>

### <input type="text" id="deptno" name="result">

### <input type="submit" value="Submit">

### </form>

### </div>

### <h2>Delete Record</h2>

### <div class="container">

### <form action="/ea/ea\_del.php" method="post">

### <label for="lname">Enter USN of record to be deleted</label>

### <input type="text" id="usn" name="usn">

### <label for="fname">Subject Code</label>

### <input type="text" id="fname" name="subcode">

### <label for="batch">Semester</label>

### <input type="text" id="batch" name="sem">

### 

### <input type="submit" value="Submit">

### </form>

### </div>

### </body>

### </html>

### Section 4.5.2 PHP

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

echo '<html><head><style>table, th, td {border: 1px solid black;}</style></head><body>';

echo '<br><br>External Marks :<br><table><tr>';

$sql = "CALL disp\_ea\_marks()";

$result = $conn->query($sql);

if ($result->num\_rows > 0) {

// output data of each row

// $fieldinfo=mysqli\_fetch\_fields($result);

$val=array();

while($fieldinfo=mysqli\_fetch\_field($result)){

$val[]=$fieldinfo->name;

echo '<th>'.$fieldinfo->name.'</th>' ;

}

echo '</tr>';

while($row = $result->fetch\_assoc()) {

echo '<tr> ';

foreach ($val as $valu){

echo '<td>'.$row[$valu].'</td>';

}

echo '</tr>';

}

echo '</table>';

}

echo '</body></html>';

$conn->close();

?>

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql="INSERT INTO External\_Marks values(".$\_POST["usn"].",".$\_POST["sem"].",'".$\_POST["subcode"]."',".$\_POST["ea"].",".$\_POST["total"].",'".$\_POST["grade"]."','".$\_POST["result"]."')";

if ($conn->query($sql) === TRUE) {

echo "New record created successfully";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

$conn->close();

?>

Delete Record

<?php

$servername = "localhost";

$username = "pavan";

$password = "password";

$dbname = "DBMS\_PROJECT";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "DELETE from External\_Marks WHERE usn=".$\_POST["usn"]." and sem=".$\_POST["sem"]." and subcode='".$\_POST["subcode"]."'";

if ($conn->query($sql) === FALSE)

echo $conn->error."<br>";

else

echo "sucessfully deleted record";

$conn->close();

?>

**Section 4.6 Subjects Section 4.6.1**

### HTML

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

body {font-family: Arial, Helvetica, sans-serif;

background:#3498db}

\* {box-sizing: border-box;}

input[type=text], select, textarea {

width: 100%;

padding: 12px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

margin-top: 6px;

margin-bottom: 16px;

resize: vertical;

}

input[type=submit] {

background-color: #4CAF50;

color: white;

padding: 12px 20px;

border: none;

border-radius: 4px;

cursor: pointer;

}

.container {

border-radius: 5px;

background-color: #f2f2f2;

padding: 20px;

}

</style>

</head>

<body>

<h1>Subjects<h1>

<p> </p>

<button onclick="location.href = window.location.href='/subjects/subjects\_show.php';" class="button button1">Show Table</button>

<h2>Insert Record</h2>

<div class="container">

<form action="/subjects\_insert.php" method="post">

<label for="fname">Subject Name</label>

<input type="text" id="fname" name="subname">

<label for="lname">Subject Code</label>

<input type="text" id="usn" name="subcode">

<label for="batch">Credits</label>

<input type="text" id="batch" name="credits">

<label for="batch">Department Number</label>

<input type="text" id="deptno" name="Dno">

<input type="submit" value="Submit">

</form>

</div>

<h2>Update Record</h2>

<div class="container">

<form action="/subjects/update\_subjects.php" method="post">

<label for="lname">Enter Subject Code of record to be updated</label>

<input type="text" id="usn" name="subcodec">

<h3>Enter Update Details</h3>

<label for="fname">Subject Name</label>

<input type="text" id="fname" name="name">

<label for="lname">Subject Code</label>

<input type="text" id="usn" name="subcode">

<label for="batch">Credits</label>

<input type="text" id="batch" name="credits">

<label for="batch">Subject Type</label>

<input type="text" id="deptno" name="dno">

<input type="submit" value="Submit">

</form>

</div>

<h2>Delete Record</h2>

<div class="container">

<form action="/subjects/subjects\_del.php" method="post">

<label for="lname">Enter Subject Code of record to be deleted</label>

<input type="text" id="subcode" name="subcode">

<input type="submit" value="Submit">

</form>

</div>

</body>

</html>

### Section 4.6.2

### PHP

### <?php

### $servername = "localhost";

### $username = "pavan";

### $password = "password";

### $dbname = "DBMS\_PROJECT";

### // Create connection

### $conn = new mysqli($servername, $username, $password, $dbname);

### // Check connection

### if ($conn->connect\_error) {

### die("Connection failed: " . $conn->connect\_error);

### }

### echo '<html><head><style>table, th, td {border: 1px solid black;}</style></head><body>';

### echo '<br><br>Subjects Table:<br><table><tr>';

### $sql = "CALL disp\_subs()";

### $result = $conn->query($sql);

### if ($result->num\_rows > 0) {

### // output data of each row

### // $fieldinfo=mysqli\_fetch\_fields($result);

### $val=array();

### while($fieldinfo=mysqli\_fetch\_field($result)){

### $val[]=$fieldinfo->name;

### echo '<th>'.$fieldinfo->name.'</th>' ;

### }

### echo '</tr>';

### while($row = $result->fetch\_assoc()) {

### echo '<tr> ';

### foreach ($val as $valu){

### echo '<td>'.$row[$valu].'</td>';

### }

### echo '</tr>';

### }

### echo '</table>';

### }

### echo '</body></html>';

### $conn->close();

### ?>

### <?php

### $servername = "localhost";

### $username = "pavan";

### $password = "password";

### $dbname = "DBMS\_PROJECT";

### // Create connection

### $conn = new mysqli($servername, $username, $password, $dbname);

### // Check connection

### if ($conn->connect\_error) {

### die("Connection failed: " . $conn->connect\_error);

### }

### $sql = "INSERT INTO Subjects values(".$\_POST["subcode"].",'".$\_POST["subname"]."',".$\_POST["credits"].",".$\_POST["Dno"].")";

### if ($conn->query($sql) === TRUE) {

### echo "New record created successfully";

### } else {

### echo "Error: " . $sql . "<br>" . $conn->error;

### }

### $conn->close();

### ?>

### Subjects Delete

### <?php

### $servername = "localhost";

### $username = "pavan";

### $password = "password";

### $dbname = "DBMS\_PROJECT";

### // Create connection

### $conn = new mysqli($servername, $username, $password, $dbname);

### // Check connection

### if ($conn->connect\_error) {

### die("Connection failed: " . $conn->connect\_error);

### }

### $sql = "DELETE from Subjects WHERE subcode="."'".$\_POST["subcode"]."'";

### if ($conn->query($sql) === FALSE)

### echo $conn->error."<br>";

### else

### echo "sucessfully deleted record";

### $conn->close();

### ?>

**Section 4.7 Analysis**

**Section 4.7.1**

### HTML

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

body {font-family: Arial, Helvetica, sans-serif;

background:#3498db}

\* {box-sizing: border-box;}

input[type=text], select, textarea {

width: 100%;

padding: 12px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

margin-top: 6px;

margin-bottom: 16px;

resize: vertical;

}

input[type=submit] {

background-color: #4CAF50;

color: white;

padding: 12px 20px;

border: none;

border-radius: 4px;

cursor: pointer;

}

input[type=submit]:hover {

background-color: #45a049;

}

.container {

border-radius: 5px;

background-color: #f2f2f2;

padding: 20px;

}

</style>

</head>

<body>

<h1>Result Analysis<h1>

<h2>Enter Details</h2>

<div class="container">

<form action="analysis.php" method="post">

<label for="lname">Subject Code</label>

<input type="text" id="subcode" name="subcode">

<input type="submit" value="Submit">

</form>

</div></body></html>

## Section 4.7.2

## PHP

## <?php

## $servername = "localhost";

## $username = "pavan";

## $password = "password";

## $dbname = "DBMS\_PROJECT";

## // Create connection

## $conn = new mysqli($servername, $username, $password, $dbname);

## // Check connection

## if ($conn->connect\_error) {

## die("Connection failed: " . $conn->connect\_error);

## }

## echo '<html><head><h1>Result Analysis</h1></head><body>';

## $sql = "SELECT COUNT(\*) as fail from External\_Marks where result='F' and subcode='".$\_POST["subcode"]."'";

## $result = $conn->query($sql);

## if ($result->num\_rows > 0) {

## $row=$result->fetch\_assoc();

## $fail=$row["fail"];

## echo "Number of students failed:$fail<br>";

## }

## echo "<p> </p>";

## $sql = "SELECT COUNT(\*) as pass from External\_Marks where result='P' and subcode='".$\_POST["subcode"]."'";

## $result = $conn->query($sql);

## if ($result->num\_rows > 0) {

## $row=$result->fetch\_assoc();

## $pass=$row["pass"];

## echo "Number of students passed:$pass<br>";

## }

## $conn->close();

## ?>

## <div id="piechart"></div>

## <script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>

## <script type="text/javascript">

## // Load google charts

## google.charts.load('current', {'packages':['corechart']});

## google.charts.setOnLoadCallback(drawChart);

## //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## // Draw the chart and set the chart variable values HERE instead of 8 and 10 !!

## function drawChart() {

## var data = google.visualization.arrayToDataTable([

## ['Pass/Fail', 'Number\_of\_students'],

## ['PASS', parseInt('<?php echo $pass; ?>')],

## ['FAIL', parseInt('<?php echo $fail; ?>')],

## //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## ]);

## // Optional; add a title and set the width and height of the chart

## var options = {'title':'Pass/Fail percentage', 'width':550, 'height':400};

## // Display the chart inside the <div> element with id="piechart"

## var chart = new google.visualization.PieChart(document.getElementById('piechart'));

## chart.draw(data, options);

## }

## </script>

## </body></html>

## Section 4.8

**Trigger and Stored Procedure**

### Section 4.8.1 Trigger

create trigger str\_afterins\_student\_trig after insert on Students for each row update Departments set strength=strength+1 where Departments.dno=NEW.dno;

create trigger str\_afterdel\_student\_trig after delete on Students for each row update Departments set strength=strength-1 where Departments.dno=OLD.dno;

create trigger str\_before\_dept\_trig before insert on Departments for each row begin set NEW.strength=0;

### Section 4.8.2 Stored Procedure

delimiter $$

create procedure disp\_student() begin select \* from Students; end$$

create procedure disp\_dept() begin select \* from Departments; end$$

create procedure disp\_subs() begin select \* from Subjects; end$$

create procedure disp\_ia\_marks() begin select \* from Internal\_Marks; end$$

create procedure disp\_ea\_marks() begin select \* from External\_Marks; end$$

create procedure update\_final(IN a int ,IN b int, IN c varchar(30))

begin

update Internal\_Marks set final\_iat=(iat1+iat2+iat3)/3 where subcode=c and usn=a and sem=b;

end $$

delimiter ;

## Chapter 5

**DISCUSSION & SCREENSHOTS**

## Chapter 6

**CONCLUSION AND FUTURE SCOPE**

**Section 6.1 Conclusion**

This report has discussed the development of a web application that allows college authorities to see student records belonging to their department, see different result records and the general information of the students under the department. It also allows them to insert a new student record, department record or an marks record to the existing database.

## Section 6.2 Future Scope

The project data and records need to be manually loaded by any user. Future features would include automatically scrapping the results from the VTU results website and creating the database automatically without the need for any manual data entry.

# REFERENCES

1. <https://www.w3schools.com/>
2. <https://www.codecademy.com/learn/learn-css>
3. <https://www.learn-php.org/>
4. <https://www.learn-php.org/>
5. <http://www.mysqltutorial.org/>