

STUDENT NAME: **YASH CHAUHAN**
STUDENT ROLL NUMBER: **28**
SECTION: **CSE C-1**
STUDENT REG NUMBER: **230905194**
WEEK NO: **3**
DATE: **21ST JAN 2025**
Lab No. 3 – **BOOTSTRAP**

Q1. Design the student bio-data form using button, label, textbox, radio button, table and checkbox.

```
<!DOCTYPE html>
<html>
<head>
<title>Student Bio-Data Form</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>
<body class="bg-light">

<div class="container mt-4">
<h3 class="text-center mb-4">Student Bio-Data Form</h3>

<form class="card p-4 shadow">
<div class="mb-3">
<label class="form-label">Student Name</label>
<input type="text" class="form-control">
</div>

<div class="mb-3">
<label class="form-label">Roll Number</label>
<input type="text" class="form-control">
</div>

<div class="mb-3">
<label class="form-label">Gender</label><br>
<input type="radio" name="gender"> Male
<input type="radio" name="gender" class="ms-3"> Female
</div>

<div class="mb-3">
```

```
<label class="form-label">Skills</label><br>
<input type="checkbox"> C
<input type="checkbox" class="ms-3"> Java
<input type="checkbox" class="ms-3"> Python
</div>

<h5>Academic Details</h5>
<table class="table table-bordered">
<tr>
<th>Semester</th>
<th>CGPA</th>
</tr>
<tr>
<td>Sem 1</td>
<td><input type="text" class="form-control"></td>
</tr>
<tr>
<td>Sem 2</td>
<td><input type="text" class="form-control"></td>
</tr>
</table>

<button class="btn btn-primary">Submit</button>
</form>
</div>

</body>
</html>
```

The screenshot shows a web browser window titled "Student Bio-Data Form". The page contains fields for "Student Name" (text input), "Roll Number" (text input), "Gender" (radio buttons for Male and Female), and "Skills" (checkboxes for C, Java, and Python). Below these, there is a section titled "Academic Details" with a table for "Semester" and "CGPA". The table has two rows: "Sem 1" and "Sem 2". A blue "Submit" button is at the bottom. The browser's address bar shows the URL "127.0.0.1:5000/lab3/q1.html". The taskbar at the bottom of the screen shows various icons and the system clock.

Q2. Design a web page which shows the database-oriented CRUD operation. Consider Employee data.

```
<!DOCTYPE html>
<html>
<head>
<title>Employee CRUD</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
<style>
body {
background-color: #f8f9fa;
}

h3 {
font-weight: bold;
color: #343a40;
}

.card {
border-radius: 12px;
box-shadow: 0 4px 12px rgba(0,0,0,0.1);
}
```

```
.card-header {  
font-weight: bold;  
font-size: 18px;  
background-color: #0d6efd;  
color: white;  
border-radius: 12px 12px 0 0;  
}  
  
.form-control {  
padding: 10px;  
border-radius: 8px;  
border: 1px solid #ced4da;  
}  
  
.btn-group button {  
min-width: 100px;  
font-weight: bold;  
border-radius: 8px;  
}  
  
.btn-success { background-color: #198754; border: none; }  
.btn-success:hover { background-color: #157347; }  
  
.btn-primary { background-color: #0d6efd; border: none; }  
.btn-primary:hover { background-color: #0b5ed7; }  
  
.btn-warning { background-color: #ffc107; border: none; color: #212529; }  
.btn-warning:hover { background-color: #e0a800; }  
  
.btn-danger { background-color: #dc3545; border: none; }  
.btn-danger:hover { background-color: #b02a37; }  
  
table {  
background-color: white;  
border-radius: 8px;  
overflow: hidden;  
box-shadow: 0 2px 8px rgba(0,0,0,0.1);  
}  
  
table th, table td {  
padding: 12px 15px;  
}
```

```
tr.selected {
background-color: #cce5ff !important;
}

table tbody tr:hover {
background-color: #e9ecf;
cursor: pointer;
}
</style>
</head>
<body>

<div class="container mt-5">
<h3 class="text-center mb-4">Employee CRUD Operations</h3>

<div class="card mb-4">
<div class="card-header">Employee Details</div>
<div class="card-body">
<div class="row g-3 mb-3">
<div class="col-md-4">
<input type="text" class="form-control" placeholder="Employee ID">
</div>
<div class="col-md-4">
<input type="text" class="form-control" placeholder="Employee Name">
</div>
<div class="col-md-4">
<input type="text" class="form-control" placeholder="Department">
</div>
</div>
<div class="btn-group">
<button class="btn btn-success">Create</button>
<button class="btn btn-primary">Read</button>
<button class="btn btn-warning">Update</button>
<button class="btn btn-danger">Delete</button>
</div>
</div>
</div>

<table class="table table-striped table-hover">
<thead class="table-dark">
<tr>
<th>ID</th>
```

```

<th>Name</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Ravi</td>
<td>HR</td>
</tr>
</tbody>
</table>
</div>

<script>
let selectedRow = null;

const idInput = document.querySelectorAll("input")[0];
const nameInput = document.querySelectorAll("input")[1];
const deptInput = document.querySelectorAll("input")[2];
const tableBody = document.querySelector("table tbody");

function makeRowSelectable(row) {
row.onclick = function () {
if (selectedRow) selectedRow.classList.remove("selected");
selectedRow = this;
this.classList.add("selected");
idInput.value = this.cells[0].innerText;
nameInput.value = this.cells[1].innerText;
deptInput.value = this.cells[2].innerText;
};
}

Array.from(tableBody.rows).forEach(row => makeRowSelectable(row));

document.querySelector(".btn-success").onclick = function () {
if (!idInput.value || !nameInput.value || !deptInput.value) {
alert("Please fill all fields");
return;
}

const row = tableBody.insertRow();
row.insertCell(0).innerText = idInput.value;

```

```
row.insertCell(1).innerText = nameInput.value;
row.insertCell(2).innerText = deptInput.value;
makeRowSelectable(row);
clearInputs();
};

document.querySelector(".btn-primary").onclick = function () {
alert("Employee records are displayed in the table below.");
};

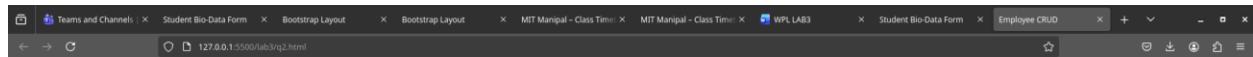
document.querySelector(".btn-warning").onclick = function () {
if (!selectedRow) {
alert("Select a row to update");
return;
}
selectedRow.cells[0].innerText = idInput.value;
selectedRow.cells[1].innerText = nameInput.value;
selectedRow.cells[2].innerText = deptInput.value;
selectedRow.classList.remove("selected");
clearInputs();
selectedRow = null;
};

document.querySelector(".btn-danger").onclick = function () {
if (!selectedRow) {
alert("Select a row to delete");
return;
}
tableBody.deleteRow(selectedRow.rowIndex - 1);
clearInputs();
selectedRow = null;
};

function clearInputs() {
idInput.value = "";
nameInput.value = "";
deptInput.value = "";
}

</script>

</body>
</html>
```

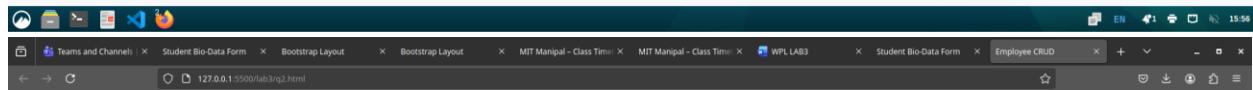


Employee CRUD Operations

Employee Details

102	Yash	CSE	
Create	Read	Update	Delete

ID	Name	Department
101	Ravi	HR



Employee CRUD Operations

Employee Details

Employee ID	Employee Name	Department	
Create	Read	Update	Delete

ID	Name	Department
101	Ravi	HR
102	Yash	CSE



Q3. Create a web page using bootstrap as mentioned. Divide the page into 2 parts top and bottom, then divide the bottom into 3 parts and design each top and bottom part using different input groups, input, badges, buttons and button groups. Make the design more Attractive.

```
\<!DOCTYPE html>
<html>
<head>
<title>Bootstrap Layout</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
<style>
body {
background-color: #f8f9fa;
}

.card {
border-radius: 12px;
margin-bottom: 20px;
}

.card-top {
background: linear-gradient(90deg, #0d6efd, #6610f2);
color: white;
box-shadow: 0 4px 12px rgba(0,0,0,0.2);
}

.card-bottom {
background-color: white;
box-shadow: 0 2px 10px rgba(0,0,0,0.1);
}

.input-group-text {
background-color: #0d6efd;
color: white;
border-radius: 0.375rem 0 0 0.375rem;
}

.btn-round {
border-radius: 50px;
}

.badge {
font-size: 0.9rem;
margin-right: 5px;
}

.btn-group .btn {
```

```
min-width: 80px;
}

</style>
</head>
<body>

<div class="container mt-4">

<div class="card card-top p-4 mb-4">
<h4>Top Section <span class="badge bg-warning">New</span></h4>
<div class="input-group mt-3 mb-3">
<span class="input-group-text">@</span>
<input type="text" class="form-control" placeholder="Username">
<button class="btn btn-light btn-round">Check</button>
</div>
<div class="d-flex gap-2">
<button class="btn btn-success btn-round">Save</button>
<button class="btn btn-danger btn-round">Cancel</button>
</div>
</div>

<div class="row g-3">

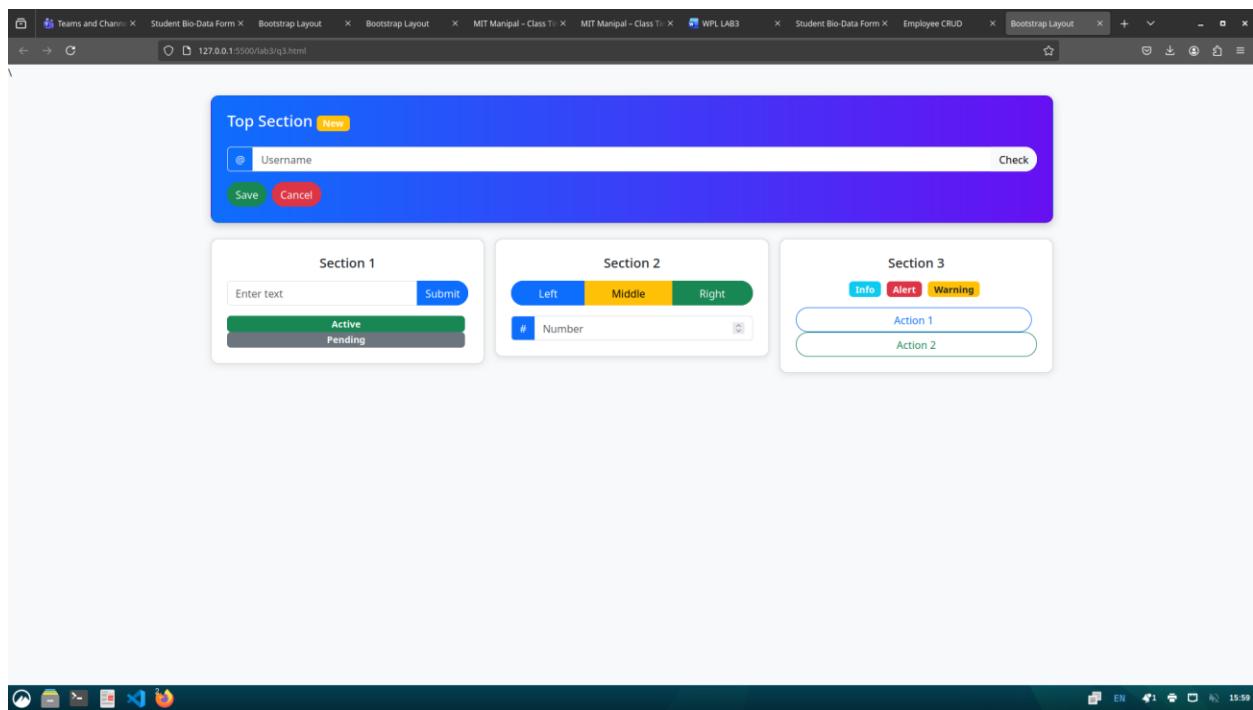
<div class="col-md-4">
<div class="card card-bottom p-4 text-center">
<h5 class="mb-3">Section 1</h5>
<div class="input-group mb-3">
<input type="text" class="form-control" placeholder="Enter text">
<button class="btn btn-primary btn-round">Submit</button>
</div>
<span class="badge bg-success">Active</span>
<span class="badge bg-secondary">Pending</span>
</div>
</div>

<div class="col-md-4">
<div class="card card-bottom p-4 text-center">
<h5 class="mb-3">Section 2</h5>
<div class="btn-group mb-2">
<button class="btn btn-primary btn-round">Left</button>
<button class="btn btn-warning btn-round">Middle</button>
<button class="btn btn-success btn-round">Right</button>
</div>
</div>
```

```
<div class="input-group mt-2">
<span class="input-group-text">#</span>
<input type="number" class="form-control" placeholder="Number">
</div>
</div>
</div>

<div class="col-md-4">
<div class="card card-bottom p-4 text-center">
<h5 class="mb-3">Section 3</h5>
<div class="mb-3">
<span class="badge bg-info">Info</span>
<span class="badge bg-danger">Alert</span>
<span class="badge bg-warning text-dark">Warning</span>
</div>
<button class="btn btn-outline-primary btn-round me-2">Action 1</button>
<button class="btn btn-outline-success btn-round">Action 2</button>
</div>
</div>
</div>

</body>
</html>
```



Q4. Design your class timetable using bootstrap table and carousel.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>MIT Manipal – Class Timetable</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

<style>
body {
background: #f5f7fa;
font-family: 'Segoe UI', sans-serif;
}

.table th, .table td {
text-align: center;
vertical-align: middle;
font-size: 14px;
transition: all 0.2s ease-in-out;
}

.table tbody tr:hover td {
```

```
background-color: #e2f0ff;
cursor: pointer;
}
.lab-yellow {
background-color: #f9d66b;
font-weight: 600;
}
.lab-blue {
background-color: #9fd3f1;
font-weight: 600;
}
.break {
background-color: #e6e6e6;
}
.table-responsive {
border-radius: 12px;
overflow: hidden;
box-shadow: 0 4px 12px rgba(0,0,0,0.1);
}

.carousel-item {
padding: 40px 30px;
min-height: 200px;
}
.carousel-inner {
border-radius: 12px;
}
#courseCarousel {
position: relative;
margin-bottom: 50px;
}
.carousel-control-prev, .carousel-control-next {
width: 5%;
}
.carousel-control-prev-icon,
.carousel-control-next-icon {
background-color: rgba(0,0,0,0.5);
border-radius: 50%;
padding: 20px;
}
.carousel-control-prev {
left: -20px;
}
.carousel-control-next {
```

```

right: -20px;
}
.list-group-item {
border-radius: 6px;
margin-bottom: 6px;
transition: 0.2s;
}
.list-group-item:hover {
background-color: #e9f5ff;
}
.text-center h3 {
font-weight: bold;
margin-bottom: 0;
}
.text-center p {
font-size: 16px;
}
.badge {
font-size: 0.9rem;
margin-left: 5px;
}
</style>
</head>

<body>

<div class="container my-5">

<div class="text-center mb-4">
<h3>SCHOOL OF COMPUTER ENGINEERING, MIT MANIPAL</h3>
<p class="mb-1">Semester & Section: <b>VI BTECH | CSE-C</b></p>
<span class="badge bg-dark">Room: AB5-211</span>
</div>

<div class="table-responsive mb-5 bg-white p-3">
<table class="table table-bordered table-hover">
<thead class="table-dark">
<tr>
<th>Day</th>
<th>8:00-9:00</th>
<th>9:00-10:00</th>
<th>10:00-10:30</th>
<th>10:30-11:30</th>

```

```

<th>11:30-12:30</th>
<th class="break">12:30-1:00</th>
<th>1:00-2:00</th>
<th>2:00-3:00</th>
<th>3:00-3:30</th>
<th>3:30-4:30</th>
</tr>
</thead>
<tbody>
<tr>
<th>MON</th>
<td>PE-1</td>
<td>PCAP</td>
<td colspan="2">CD</td>
<td>OE</td>
<td class="break"></td>
<td>PE-2</td>
<td>EEFM</td>
<td></td>
<td></td>
</tr>

<tr>
<th>TUE</th>
<td colspan="4" class="lab-yellow">CDL-6CSE-C1 (8:30-11:00)</td>
<td>*</td>
<td class="break"></td>
<td>PE-2</td>
<td></td>
<td></td>
<td></td>
</tr>

<tr>
<th>WED</th>
<td>PE-2</td>
<td>EEFM</td>
<td colspan="2">PE-1</td>
<td>PCAP</td>
<td class="break"></td>
<td colspan="4" class="lab-blue">WPL-6CSE-C1 (14:00-17:00)</td>
</tr>

```

```

<tr>
<th>THU</th>
<td colspan="4" class="lab-yellow">PPL-6CSE-C2 (8:30-11:00)</td>
<td></td>
<td class="break"></td>
<td>CD</td>
<td>OE</td>
<td></td>
<td></td>
</tr>

<tr>
<th>FRI</th>
<td>CD</td>
<td>OE</td>
<td colspan="2" class="lab-yellow">PE-2</td>
<td>EEFM</td>
<td class="break"></td>
<td colspan="4" class="lab-blue">PPL-C1 + CDL-C2</td>
</tr>

<tr>
<th>SAT</th>
<td colspan="4" class="lab-yellow">WPL-6CSE-C2 (8:30-11:30)</td>
<td>*</td>
<td class="break"></td>
<td>PE-1</td>
<td>PCAP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
</div>

<div id="courseCarousel" class="carousel slide carousel-dark shadow p-3 bg-white rounded" data-bs-ride="carousel">

<div class="carousel-inner">
<div class="carousel-item active">
<h4 class="fw-bold mb-3">▣ Core Courses</h4>
<ul class="list-group">
<li class="list-group-item">EEFM – Engineering Economics & Financial Management</li>

```

```
<li class="list-group-item">PCAP – Parallel Computer Architecture & Programming</li>
<li class="list-group-item">CD – Compiler Design</li>
<li class="list-group-item">OE – Open Elective-2</li>
</ul>
</div>

<div class="carousel-item">
<h4 class="fw-bold mb-3">⌚ Program Electives</h4>
<ul class="list-group">
<li class="list-group-item">PE-1 – Artificial Intelligence</li>
<li class="list-group-item">PE-2 – Machine Learning / Cyber Forensics</li>
<li class="list-group-item">NLP / Network Security / Speech Processing</li>
</ul>
</div>

<div class="carousel-item">
<h4 class="fw-bold mb-3">📝 Labs</h4>
<ul class="list-group">
<li class="list-group-item">PPL – Parallel Programming Lab</li>
<li class="list-group-item">CDL – Compiler Design Lab</li>
<li class="list-group-item">WPL – Web Programming Lab</li>
</ul>
</div>

</div>

<button class="carousel-control-prev" type="button" data-bs-target="#courseCarousel" data-bs-slide="prev">
<span class="carousel-control-prev-icon"></span>
</button>

<button class="carousel-control-next" type="button" data-bs-target="#courseCarousel" data-bs-slide="next">
<span class="carousel-control-next-icon"></span>
</button>
</div>

</div>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
```

```
</body>  
</html>
```

The screenshot shows a web browser window with multiple tabs open at the top. The active tab displays the following information:

SCHOOL OF COMPUTER ENGINEERING, MIT MANIPAL
Semester & Section: VI BTech | CSE-C
Room: ABS-211

A detailed weekly class schedule table follows:

Day	8:00-9:00	9:00-10:00	10:00-10:30	10:30-11:30	11:30-12:30	12:30-1:00	1:00-2:00	2:00-3:00	3:00-3:30	3:30-4:30
MON	PE-1	PCAP		CD	OE		PE-2	EEFM		
TUE			CDL-6CSE-C1 (8:30-11:00)		*		PE-2			
WED	PE-2	EEFM		PE-1	PCAP			WPL-6CSE-C1 (14:00-17:00)		
THU			PPL-6CSE-C2 (8:30-11:00)				CD	OE		
FRI	CD	OE		PE-2	EEFM				PPL-C1 + CDL-C2	
SAT			WPL-6CSE-C2 (8:30-11:30)		*		PE-1	PCAP		

Below the schedule, a section titled "Core Courses" is shown with four items:

- EEFM - Engineering Economics & Financial Management
- PCAP - Parallel Computer Architecture & Programming
- CD - Compiler Design
- OE - Open Elective-2