<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Grade Calculator</title>

<link href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

<style>

.grade-calculator-box {

box-shadow: 0 0 20px rgba(0, 0, 0, 0.4); /\* Increased shadow effect \*/

border-radius: 15px;

padding: 20px;

margin-bottom: 20px;

}

.grade-calculator {

background-color: orange;

color: white; /\* Text color set to white \*/

padding: 20px;

text-align: center;

border-radius: 15px;

margin-bottom: 20px;

box-shadow: 0 0 20px rgba(0, 0, 0, 0.4); /\* Shadow for header box \*/

}

.form-control {

border-radius: 10px;

}

.form-label {

color: orange;

font-weight: bold;

}

.table th {

background-color: orange; /\* Table header background color \*/

color: white; /\* Table header text color \*/

}

.btn-download {

background-color: red;

color: white;

border: none;

border-radius: 5px;

padding: 10px 20px;

cursor: pointer;

}

</style>

</head>

<body>

<div class="container mt-5">

<div class="grade-calculator-box">

<div class="grade-calculator">

<h1>Grade Calculator</h1>

</div>

<form id="gradeForm">

<div class="form-group">

<label for="student\_name" class="form-label">Student Name:</label>

<input type="text" class="form-control" id="student\_name" name="student\_name" required>

</div>

<div class="form-group">

<label for="roll\_number" class="form-label">Roll Number:</label>

<input type="text" class="form-control" id="roll\_number" name="roll\_number" required>

</div>

<div class="form-group">

<label class="form-label">Subject Marks:</label>

<div id="subjectMarks">

<!-- Five subject fields -->

<input type="number" class="form-control mb-2 subject-input" placeholder="Enter marks for subject 1" name="subject1" required>

<input type="number" class="form-control mb-2 subject-input" placeholder="Enter marks for subject 2" name="subject2" required>

<input type="number" class="form-control mb-2 subject-input" placeholder="Enter marks for subject 3" name="subject3" required>

<input type="number" class="form-control mb-2 subject-input" placeholder="Enter marks for subject 4" name="subject4" required>

<input type="number" class="form-control mb-2 subject-input" placeholder="Enter marks for subject 5" name="subject5" required>

</div>

</div>

<button type="submit" class="btn btn-success">Submit</button>

<button type="button" onclick="addAnotherStudent()" class="btn btn-primary ml-3">Add Another Student</button>

</form>

</div>

<div id="resultContainer" style="display: none;">

<h2>Results</h2>

<div id="results"></div>

<button onclick="downloadData()" class="btn-download mt-3">Download</button>

</div>

</div>

<script>

function calculateGrade(mark) {

if (mark >= 90) return 'O';

else if (mark >= 80) return 'A+';

else if (mark >= 70) return 'A';

else if (mark >= 60) return 'B+';

else if (mark >= 50) return 'B';

else return 'C';

}

function addAnotherStudent() {

document.getElementById('gradeForm').reset();

document.getElementById('resultContainer').style.display = 'none';

}

function downloadData() {

const results = document.getElementById('results').innerHTML;

const blob = new Blob([results], { type: 'text/csv' });

const url = URL.createObjectURL(blob);

const a = document.createElement('a');

a.href = url;

a.download = 'grade\_results.csv';

document.body.appendChild(a);

a.click();

document.body.removeChild(a);

URL.revokeObjectURL(url);

}

document.getElementById('gradeForm').addEventListener('submit', function(event) {

event.preventDefault();

const form = event.target;

const formData = new FormData(form);

const marks = [];

for (let i = 1; i <= 5; i++) {

marks.push(parseInt(formData.get(`subject${i}`)));

}

const grades = marks.map(calculateGrade);

const averageGrade = calculateGrade(marks.reduce((a, b) => a + b, 0) / marks.length);

const studentName = formData.get('student\_name');

const rollNumber = formData.get('roll\_number');

const resultHTML = `

<div class="card mt-3">

<div class="card-body">

<h5 class="card-title">${studentName} - ${rollNumber}</h5>

<table class="table">

<thead>

<tr>

<th>Subject</th>

<th>Marks</th>

<th>Grade</th>

</tr>

</thead>

<tbody>

${marks.map((mark, index) => `

<tr>

<td>Subject ${index + 1}</td>

<td>${mark}</td>

<td>${grades[index]}</td>

</tr>

`).join('')}

</tbody>

</table>

<p><strong>Overall Grade:</strong> ${averageGrade}</p>

</div>

</div>

`;

document.getElementById('results').insertAdjacentHTML('beforeend', resultHTML);

document.getElementById('resultContainer').style.display = 'block';

});

</script>

</body>

</html>