

# CNT Assignment 4

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**Class:** TY CSAI - A

**Roll Number:** 57

**Batch:** 3

**Assignment:** Design and develop a website using toggleable or dynamic tabs or pills with bootstrap and jQuery to show the relevance of EDI, DT and Course projects in VIT.

## Code

index.html

```
<!doctype html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>College Projects – Toggleable Tabs (Bootstrap + jQuery)</title>

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

    <style>
        body { background:#f4f7fb; }
        .hero { padding:1.25rem; border-radius:10px; background:linear-gradient(180deg,#fff,#f8fbff); box-shadow:0 6px 18px rgba(20,40,80,0.05); }
        .btn-toggle { border-radius:999px; padding:.5rem 1rem; font-weight:600; }
        .panel { transition:opacity .18s ease, transform .18s ease; }
        .panel.hidden { display:none !important; opacity:0;
            transform:translateY(6px) scale(.997); }
        .panel.visible { display:block; opacity:1; transform:none; }
    </style>
</head>
<body>
    <div class="container py-5">
        <div class="hero mb-4 d-flex flex-column flex-md-row justify-content-between align-items-start">
            <div>
                <h1 class="h4 mb-1">Relevance of College Projects</h1>
                <p class="mb-0 text-muted small">Click a button to view the importance of that project type. Only one panel is visible at a time.</p>
            </div>

            <!-- Buttons: visible clearly -->
            <div class="mt-3 mt-md-0" role="tablist" aria-label="Project types">
                <div class="btn-group" role="group" aria-label="Project toggle">
```

```

        <button type="button" class="btn btn-outline-primary btn-toggle
active" id="btn-edai" data-target="#edai" aria-controls="edai" aria-
selected="true">EDAI</button>
        <button type="button" class="btn btn-outline-primary btn-toggle"
id="btn-dt" data-target="#dt" aria-controls="dt" aria-
selected="false">DT</button>
        <button type="button" class="btn btn-outline-primary btn-toggle"
id="btn-course" data-target="#course" aria-controls="course" aria-
selected="false">Course Projects</button>
    </div>
</div>
</div>

<!-- Panels -->
<div class="row">
    <div class="col-12">
        <section id="edai" class="panel card p-4 mb-3 visible" role="tabpanel"
aria-labelledby="btn-edai" tabindex="0">
            <h2 class="h6"><b>EDAI – Engineering Design & Innovation</b></h2>
            <p>EDAI projects are semester-long team projects where students
design and build an innovative solution to a real problem.</p>
            <ul>
                <li>Focus on innovation & real-world utility.</li>
                <li>Teaches prototyping, testing and teamwork.</li>
                <li>Often leads to research papers or patents.</li>
            </ul>
            <p class="mb-0"><strong>Why it matters:</strong> Develops ideation,
project management and prototype-building skills that are valuable in industry
and research.</p>
        </section>

        <section id="dt" class="panel card p-4 mb-3 hidden" role="tabpanel"
aria-labelledby="btn-dt" tabindex="-1" aria-hidden="true">
            <h2 class="h6"><b>DT – Design Thinking (Publication /
Patent)</b></h2>
            <p>DT covers publishing the research results from EDAI projects:
writing papers, submitting to conferences/journals or filing patents.</p>
            <ul>
                <li>Teaches research communication and technical writing.</li>
                <li>Exposes students to peer review and academic standards.</li>
                <li>Patent option can protect IP and help entrepreneurship.</li>
            </ul>
            <p class="mb-0"><strong>Why it matters:</strong> Converts prototypes
into documented knowledge and intellectual property, increasing visibility and
impact.</p>
        </section>
    </div>
</div>

```

```

        <section id="course" class="panel card p-4 mb-3 hidden"
role="tabpanel" aria-labelledby="btn-course" tabindex="-1" aria-hidden="true">
            <h2 class="h6"><b>Course Projects – Apply classroom
learning</b></h2>
            <p>Course projects are tied to individual subjects and let students
practice and apply theory through short practical assignments.</p>
            <ul>
                <li>Reinforces classroom concepts with hands-on work.</li>
                <li>Creates a portfolio of subject-specific mini-projects.</li>
                <li>Lower time commitment but great for deepening
understanding.</li>
            </ul>
            <p class="mb-0"><strong>Why it matters:</strong> Bridges theory and
practice and prepares students for larger EDAI work.</p>
        </section>
    </div>
</div>
</div>

<!-- jQuery and Bootstrap JS -->
<script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min
.js"></script>

<script>
$(function() {
    var $buttons = $('.btn-toggle');
    var $panels = $('.panel');

    function showTarget(targetSelector, $btn) {
        // hide all panels
        $panels.each(function() {
            var $p = $(this);
            if ($p.is(targetSelector)) {
                $p.removeClass('hidden').addClass('visible').attr({'aria-
hidden':'false','tabindex':'0'});
            } else {
                $p.removeClass('visible').addClass('hidden').attr({'aria-
hidden':'true','tabindex':'-1'});
            }
        });
    }

    // update button active/aria
    $buttons.removeClass('active').attr('aria-selected','false');
    if ($btn) {
        $btn.addClass('active').attr('aria-selected','true').focus();
    }
}

```

```
}

// initialize - ensure correct default
var $initial = $buttons.filter('.active').first();
if ($initial.length === 0) $initial = $buttons.first();
showTarget($initial.data('target'), $initial);

// click handler
$buttons.on('click', function(e) {
    e.preventDefault();
    var $this = $(this);
    if (!$this.hasClass('active')) {
        showTarget($this.data('target'), $this);
    }
});

// keyboard: Enter/Space behave like click
$buttons.on('keydown', function(e) {
    var key = e.key;
    var idx = $buttons.index(this);
    if (key === 'Enter' || key === ' ') {
        e.preventDefault();
        $(this).trigger('click');
    } else if (key === 'ArrowRight' || key === 'ArrowDown') {
        e.preventDefault();
        var next = (idx + 1) % $buttons.length;
        $buttons.eq(next).focus();
    } else if (key === 'ArrowLeft' || key === 'ArrowUp') {
        e.preventDefault();
        var prev = (idx - 1 + $buttons.length) % $buttons.length;
        $buttons.eq(prev).focus();
    }
});
});

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

## Output

**Relevance of College Projects**  
Click a button to view the importance of that project type. Only one panel is visible at a time.

**EDAI — Engineering Design & Innovation**  
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- Focus on innovation & real-world utility.
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**Why it matters:** Develops ideation, project management and prototype-building skills that are valuable in industry and research.

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