

Bootstrap 5 Showcase Report

Submitted By:

Submitted To:

1) Project Overview

This page demonstrates a practical tour of **Bootstrap 5**: a responsive navbar, hero/CTA area, feature cards, interactive components (carousel, accordion/FAQ, modal, offcanvas sidebar), and small UI enhancements (tooltips, popovers, progress bar). The site uses **Bootstrap CDN** links (no local install needed) and a small amount of custom CSS to match a dark, neon-accent theme.

Page Title: “Shourav’s Bootstrap Showcase”

Brand in Navbar: “Shourav’s WebTech”

Key Bootstrap components & behaviors showcased:

- Navbar (collapsible on mobile)
- Hero section with CTA buttons
- Grid & Cards (3 feature cards)
- Carousel (image slider)
- Accordion (FAQ)
- Modal (dialog)
- Offcanvas (sidebar)
- Progress bar
- Tooltips & Popovers (JS behaviors)

2) Setup & Assets

2.1 CDN Includes (in <head> and end of <body>)

- Bootstrap CSS
- Bootstrap Icons
- Bootstrap JS Bundle (includes Popper for tooltips/popovers)

```
<!-- CSS in <head> -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">

<link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.10.5/font/bootstrap-icons.css" rel="stylesheet">

<!-- JS at end of <body> -->

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>
```

3) Custom Styling (Theme)

A short <style> block defines a **dark background** with **cyan accents** and glow effects:

- body { background-color: #060a1f; color: #c2f0ff; }
- .navbar, footer { background-color: #010314; }
- .hero { background: linear-gradient(to right, #0099cc, #004080); color: #fff; padding: 100px 20px; }
- .section-title { color: #00ccff; text-shadow: 0 0 10px #00ccff; }
- .accordion-button:not(.collapsed) { background-color: #00ccff; color: #000; }

These choices keep Bootstrap's structure but give the page a consistent **dark-mode + neon** look.

4) Layout & Components

4.1 Navbar (Responsive)

- **Classes used:** navbar, navbar-expand-lg, navbar-dark, container, navbar-brand, navbar-toggler, collapse navbar-collapse, nav-link
- **Brand:** “Shourav’s WebTech”
- **Links:** Home (#), Features (#features), Carousel (#carouselExample), FAQ (#faq), About (#about)
- **Behavior:** On small screens, nav items collapse behind a toggler; on large screens, they display inline.

4.2 Hero Section (CTA)

- **Class:** .hero (custom style)
 - **Open Modal** (button) → opens Bootstrap modal
 - **View Carousel** (link button) → jumps to Carousel section
 - **Open Sidebar** (button) → opens Offcanvas sidebar

4.3 Features Section (Grid & Cards)

- **Wrapper:** <section id="features" class="container py-5">
- **Title:** .section-title
- **Layout:** .row with three columns (.col-md-4)
- **Card set:** Three cards (.card, .card-body, .h-100, .shadow-sm) with **icon/title/text:**
 1. **Responsive Grid** → “12-column grid system...”
 2. **Pre-Built Components** → buttons, cards, navs, modals...
 3. **Interactivity** → modals, accordions, tooltips, carousels without writing JS

4.4 Carousel (Image Slider)

- **IDs:** #carouselExample (and an additional demo carousel section)
- **Structure:** .carousel, .carousel-inner, .carousel-item with images, plus prev/next controls.
- **Images:**
 - Bootstrap icons image
 - A Bootstrap alerts article image
 - A Twitter-hosted Bootstrap graphic
- **Indicators and controls** allow navigation.

4.5 FAQ (Accordion)

- **ID:** #faq with #faqAccordion
- **Items:** at least three questions:
 1. “1. What is Bootstrap?”
 2. “2. Do I need to install anything for bootstrap?”
 3. “3. What tools have been used?”
- **Behavior:** Click headers to expand/collapse answers (.accordion, .accordion-item, .accordion-button, .accordion-collapse).

4.6 Modal (Dialog)

- **ID:** #infoModal
- **Title:** “About Bootstrap”
- **Triggers:** A hero button with data-bs-toggle="modal" data-bs-target="#infoModal"

4.7 Offcanvas (Sidebar)

- **ID:** #offCanvasInfo
- **Title:** “More Bootstrap Magic”
- **Trigger:** Hero button with data-bs-toggle="offcanvas" data-bs-target="#offCanvasInfo"

4.8 Tooltips & Popovers

- **Tooltip element:** Button with data-bs-toggle="tooltip" (title “Meet the tooltip!”)
- **Popover element:** Button with
data-bs-toggle="popover" data-bs-title="Popover Title" data-bs-content="This is a
Bootstrap popover with more info."

Initialization JS (inline script):

```
const tooltipTriggerList = document.querySelectorAll('[data-bs-toggle="tooltip"]');

tooltipTriggerList.forEach(el => new bootstrap.Tooltip(el));

const popoverTriggerList = document.querySelectorAll('[data-bs-toggle="popover"]');
popoverTriggerList.forEach(el => new bootstrap.Popover(el));
```

4.9 Progress Bar

- **Markup:** .progress with a child .progress-bar
- **Example:** style="width: 80%;" and label “80% Complete”

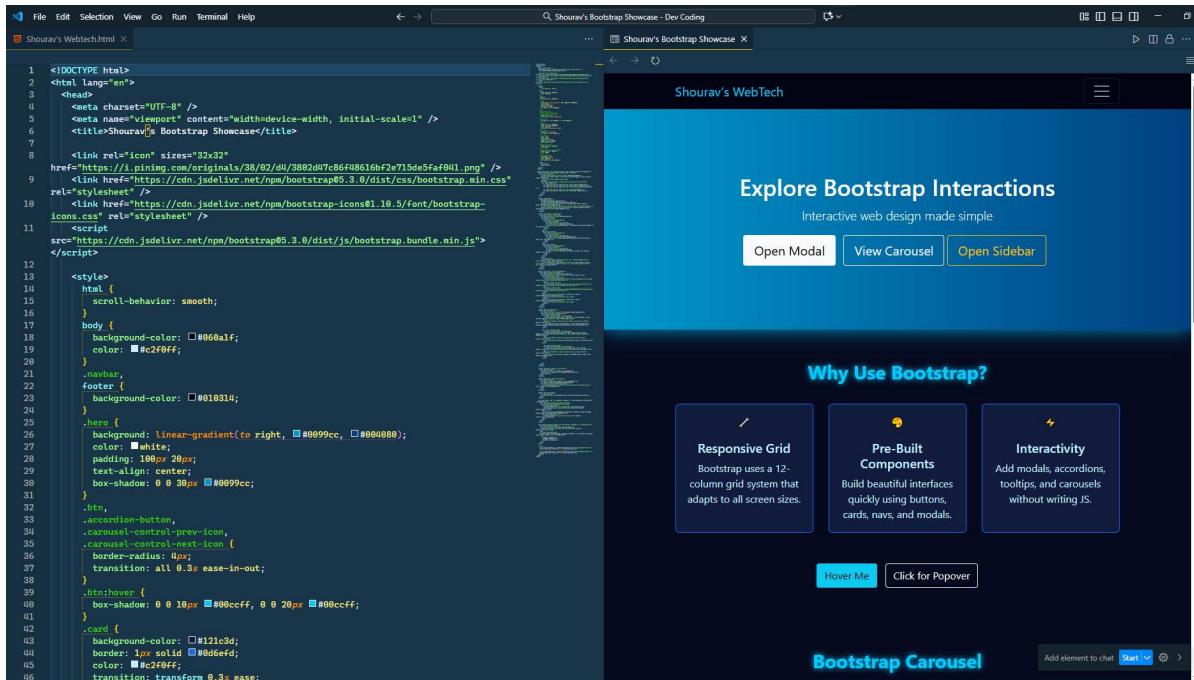
5) Bootstrap Utilities in Use (Examples)

- **Spacing:** py-5, mb-3, me-2
- **Typography / Alignment:** text-center
- **Layout:** container, row, col-md-4, h-100
- **Buttons:** btn, btn-light, btn-outline-light, btn-outline-warning, btn-info, btn-lg
- **Effects & Surfaces:** shadow-sm, card, card-body, accordion*
- **Visibility/Collapse:** collapse, navbar-expand-lg, navbar-toggler

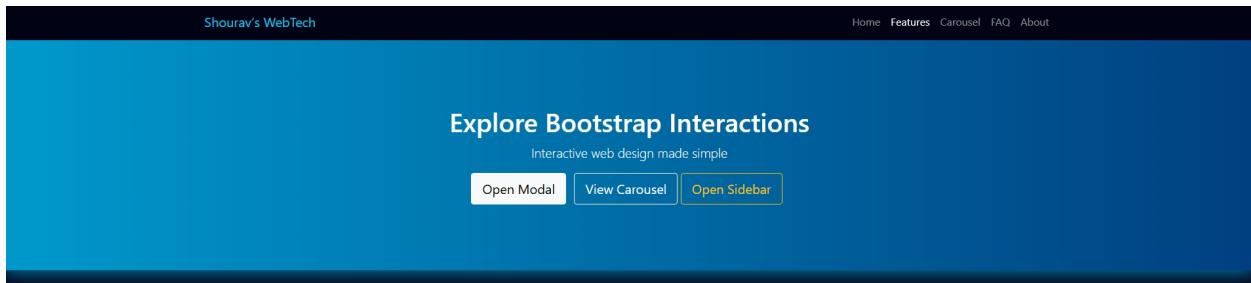
6) Accessibility & Responsiveness

- **Responsive Navbar & Grid:** Works across breakpoints; navbar-expand-lg and col-md-* ensure good layouts from mobile to desktop.
- **Alt text:** Images in the carousel should include descriptive alt attributes (add if missing).
- **Color contrast:** Dark background with light text improves readability; ensure sufficient contrast on buttons/links.

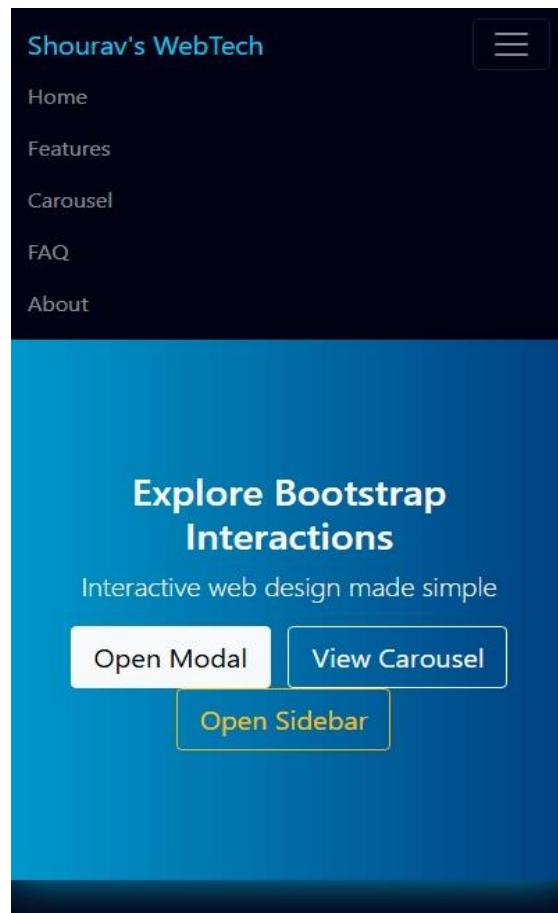
7) Appendix → Screenshots



VS Code with Live Server running



Hero section



Navbar collapsed (Mobile) with menu open



Carousel mid-slide with controls visible

Frequently Asked Questions

- 1. What is Bootstrap?

Bootstrap is a front-end CSS framework for building responsive websites quickly using ready-made classes and components.
- 2. Do I need to install anything for bootstrap?
- 3. What tools have been used?

Accordion open on at least one FAQ item

Explore Bootstrap Interactions

Interactive web design made simple

[Open Modal](#) [View Carousel](#) [Open Sidebar](#)

About Bootstrap X

Bootstrap lets you build responsive, modern web pages using built-in CSS and JavaScript components.

Close

Responsive Grid
It uses a 12-column grid system that adapts to all screen sizes.

Pre-built Components
Build beautiful interfaces quickly using buttons, cards, navs, and modals.

Interactivity
Add modals, accordions, toolbars, and more without writing any code.

Modal open

10) Appendix → Quick Code Snippets

Navbar Toggler Example

```
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">  
  <span class="navbar-toggler-icon"></span>  
</button>
```

Accordion Item Pattern

```
<div class="accordion-item">  
  <h2 class="accordion-header" id="headingOne">  
    <button class="accordion-button" data-bs-toggle="collapse" data-bs-target="#collapseOne">  
      1. What is Bootstrap?  
    </button>  
  </h2>  
  <div id="collapseOne" class="accordion-collapse collapse show" data-bs-parent="#faqAccordion">  
    <div class="accordion-body">Bootstrap is a front-end CSS framework for building responsive websites quickly using ready-made classes and components.</div>  
  </div>  
</div>
```

Offcanvas Trigger & Body

```
<button class="btn btn-outline-warning btn-lg me-2" data-bs-toggle="offcanvas" data-bs-target="#offCanvasInfo">  
  Open Sidebar  
</button>  
  
<div class="offcanvas offcanvas-end" tabindex="-1" id="offCanvasInfo">  
  <div class="offcanvas-header">  
    <h5 class="offcanvas-title">More Bootstrap Magic</h5>  
    <button type="button" class="btn-close btn-close-white" data-bs-dismiss="offcanvas"></button>  
  <div class="offcanvas-body">This sidebar uses Bootstrap's ... </div>
```