

Bootstrap Components for Modern Web Design

VIT, Pune

16th Dec 2025 | 4 PM - 6 PM



ABOUT THE SPEAKER

- Solution Engineer at Western Union
 - Former Technology Intern at Driptech (Rivulis)
 - Former Intern at Sunsoft Technologies
 - 8+ Certifications
-
- Worked on 10+ Freelance Projects (230+ Stars on GitHub)
 - Received Multiple Funding and internship Offers from Companies for Personal Projects
-
- Computer Vision Developer at Trident Labs
 - Mentor, Vice-President, and Finance Secretary at CSI VIT Pune
 - Website and Broadcasting Secretary at V-EDC

AGENDA

TOPIC
INTRODUCTION TO BOOTSTRAP
REASONS TO LEARN BOOTSTRAP IN 2025
BOOTSTRAP AND AI
RESPONSIVE WEB DESIGN AND MOBILE-FIRST APPROACH
CORE BOOTSTRAP CONCEPTS
INDUSTRY USAGE AND REAL-WORLD SCENARIOS
COMPARISON OF BOOTSTRAP 4 AND BOOTSTRAP 5
WHEN TO USE BOOTSTRAP AND WHEN NOT TO USE IT
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Q&A

INTRODUCTION TO BOOTSTRAP

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WHAT IS BOOTSTRAP?

- Open-source front-end framework developed by Twitter
- Helps build responsive, mobile-first websites quickly
- Provides **CSS utilities**, Pre-built UI components, **JavaScript** based components
- Eliminates writing **repetitive CSS** from scratch

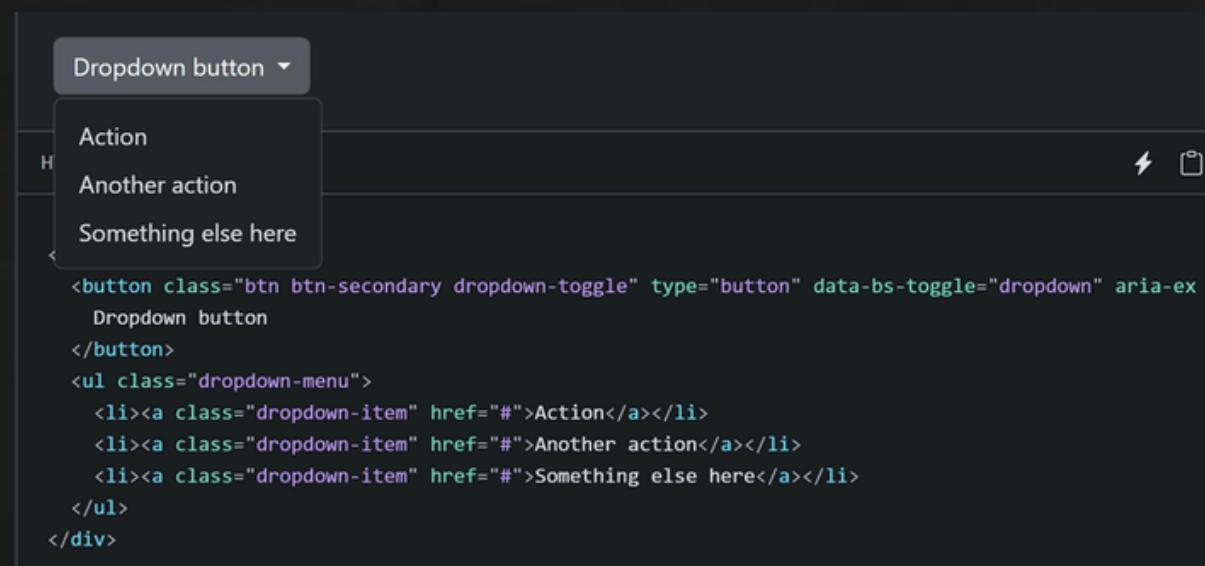
CSS UTILITIES

- Single-purpose CSS classes that you can apply directly to HTML element.

```
13  <p class="text-center text-primary m-3">Hello World!</p>
14
15  <!-- text-center → centers the text -->
16  <!-- text-primary → makes the text the primary
17  color (main color which we can set) -->
18  <!-- m-3 → adds margin -->
```

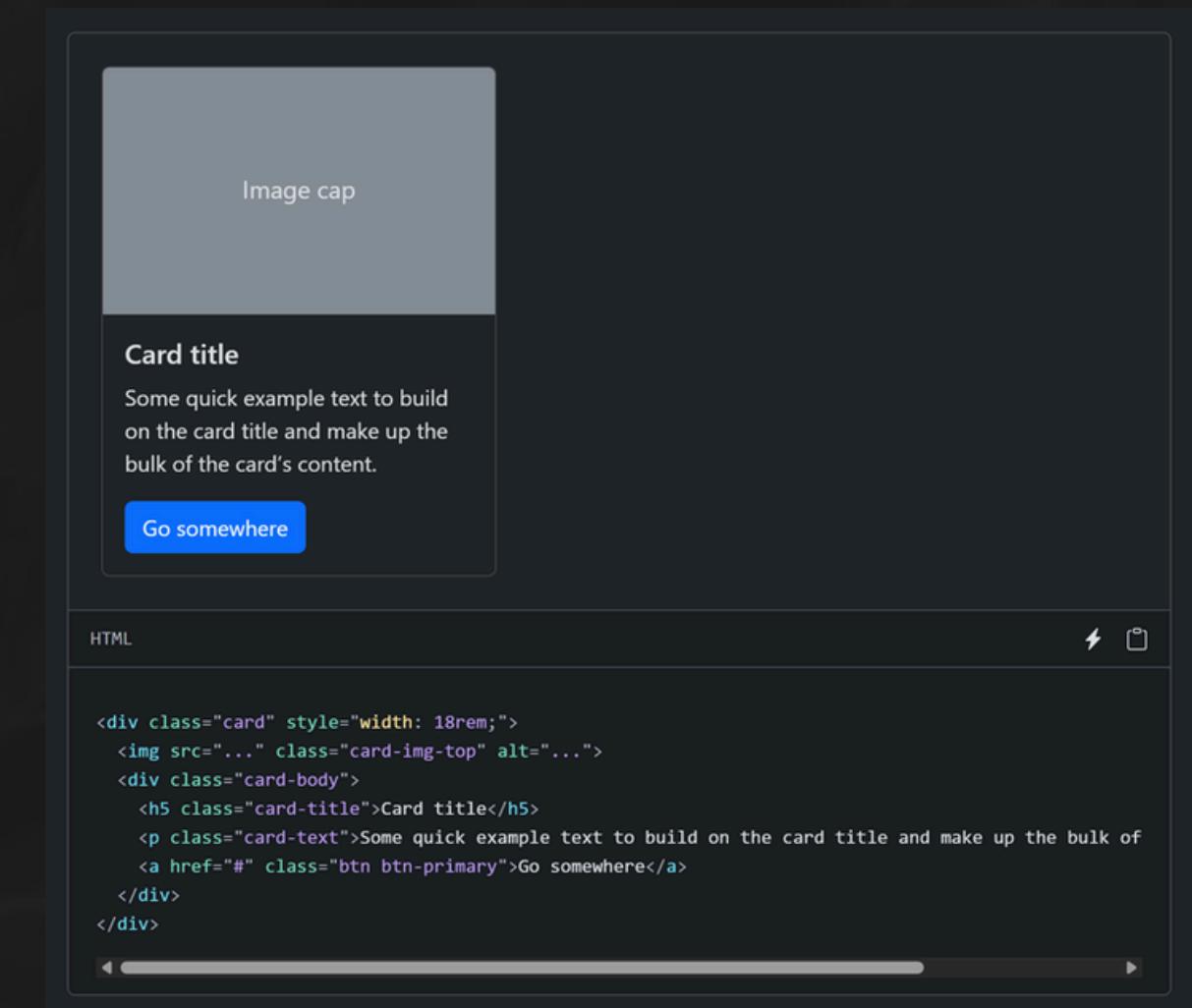
COMPONENTS

- Pre-built UI components - HTML & CSS components you can drop into your webpage without coding from scratch.
- JavaScript-based components - Components that need **interactive behaviour**, powered by Bootstrap's JS.



A screenshot of the Bootstrap documentation interface. On the left, there's a sidebar with a search bar and a navigation menu. The main content area shows a "Dropdown button" component. It consists of a blue button labeled "Dropdown button" with a downward arrow icon. A dropdown menu is open, containing three items: "Action", "Another action", and "Something else here". Below the component, its corresponding HTML code is displayed:

```
<button class="btn btn-secondary dropdown-toggle" type="button" data-bs-toggle="dropdown" aria-ex
  Dropdown button
</button>
<ul class="dropdown-menu">
  <li><a class="dropdown-item" href="#">Action</a></li>
  <li><a class="dropdown-item" href="#">Another action</a></li>
  <li><a class="dropdown-item" href="#">Something else here</a></li>
</ul>
</div>
```



A screenshot of the Bootstrap documentation interface. The main content area shows a "Card" component. It has a gray header section with the text "Image cap" and a white body section. The body section contains a "Card title" (h5), some sample text ("Some quick example text to build on the card title and make up the bulk of the card's content."), and a blue "Go somewhere" button. Below the component, its corresponding HTML code is displayed:

```
<div class="card" style="width: 18rem;">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">Some quick example text to build on the card title and make up the bulk of
      <a href="#" class="btn btn-primary">Go somewhere</a>
    </div>
  </div>
```

REASONS TO LEARN BOOTSTRAP IN 2025

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WHY BOOTSTRAP?

- Faster UI development, Industry-tested components
- Easy learning curve for beginners
- Widely used in enterprise dashboards, admin panels, MVPs
- In companies like startups, and internal enterprise tools, speed > custom UI
- 2,450,317 live websites use BootstrapCDN (Web Tech Survey)

Feature	Bootstrap	Tailwind	Material UI
Speed to build	★★★★★	★★★	★★★
Learning curve	★★★★★	★★	★★
Custom design	★★	★★★★★	★★★★★
Framework agnostic	✓	✓	✗
Enterprise stability	★★★★★	★★★★	★★★★
Beginner friendly	★★★★★	★★	★★

WHY BOOTSTRAP?

Company Size	Companies Count	Market Share	Avg. Implementation
0-9 Employees	1,709,685	52.5%	Basic
20-49 Employees	751,709	23.1%	Standard
100-249 Employees	281,643	8.7%	Advanced
500+ Employees	512,631	15.7%	Enterprise

Framework	NPM Weekly Downloads	GitHub Stars	Release Year
Bootstrap	4,794,196	172,327	2011
Tailwind CSS	8,000,000+	75,600	2017
Foundation	45,000	29,600	2011
Bulma	280,000	48,500	2016
Materialize	85,000	38,900	2014

Region/Country	Companies Using Bootstrap	Market Share %	Growth Trend
us United States	864,672	39.38%	Stable
IN India	250,959	11.43%	Growing
DE Germany	202,656	9.23%	Stable
GB United Kingdom	180,400	8.21%	Stable
CA Canada	145,300	6.62%	Growing
BR Brazil	128,800	5.86%	Growing
FR France	115,200	5.24%	Stable
Rest of World	368,681	16.78%	Growing

Article

BOOTSTRAP AND AI

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BOOTSTRAP AND AI

- AI tools can help you move faster, but you need Bootstrap knowledge to make that code work well in real projects.
- Debugging AI-generated code, AI often produces generic Bootstrap layouts.
- Sometimes becomes difficult with changing requirements.
- AI can generate correct code, Understanding lets you control, change, and trust it.

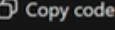
BOOTSTRAP AND AI

Create a responsive two-column layout using Bootstrap.

Below is a minimal, correct Bootstrap 5 example of a responsive two-column layout.

Responsive Two-Column Layout (Bootstrap 5)

```
html
<!DOCTYPE html>
<html lang="en">
```



Without Bootstrap knowledge

- You don't know which classes to change
- You can't verify if the solution is optimal



Modify the layout so it shows

- 1 column on mobile
- 2 columns on tablets
- 3 columns on desktops



With Bootstrap knowledge

- You understand col-sm, col-md, col-lg
- You can quickly validate or correct the AI output

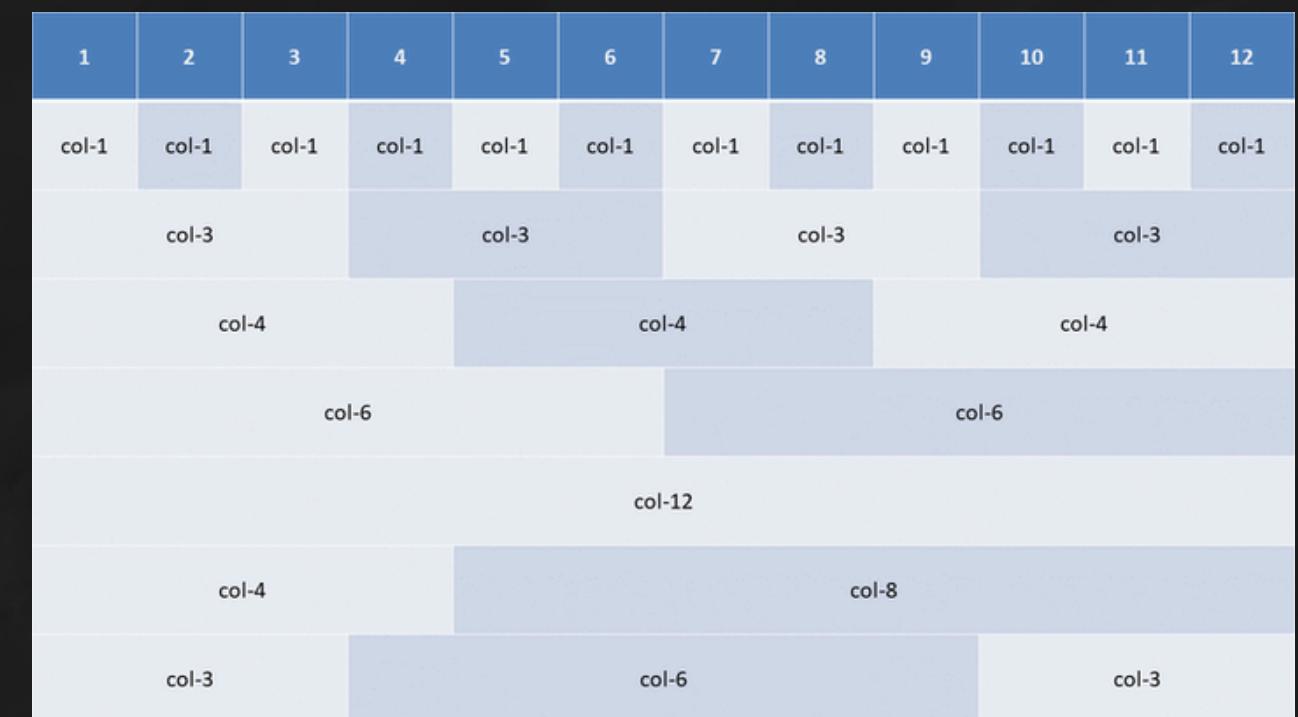


RESPONSIVE WEB DESIGN AND MOBILE-FIRST APPROACH

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RESPONSIVE WEB DESIGN

- Designing websites that adapt seamlessly to different screen sizes.
- Grid System -> Divide layouts into rows and columns that adjust automatically to screen size.
- Responsive Utilities: Predefined classes to show, hide, or resize content based on device width.
- Ex: col-12 col-md-6 → Single column on mobile, two columns on tablets and above.



MOBILE-FIRST APPROACH

- Design for mobile first, then scale up, 70%+ traffic is mobile (Larger audience)
- Better performance (lean code, smaller images, and optimized assets)
- Reduces page load times on all devices, improving SEO and user retention.
- Better UX - prioritize core content and functionality, reduce clutter
- Bootstrap 4 & 5 are mobile-first by default



CORE BOOTSTRAP CONCEPTS

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CONTAINERS

- **layout wrapper** that holds rows and columns and defines the width and alignment of your content.

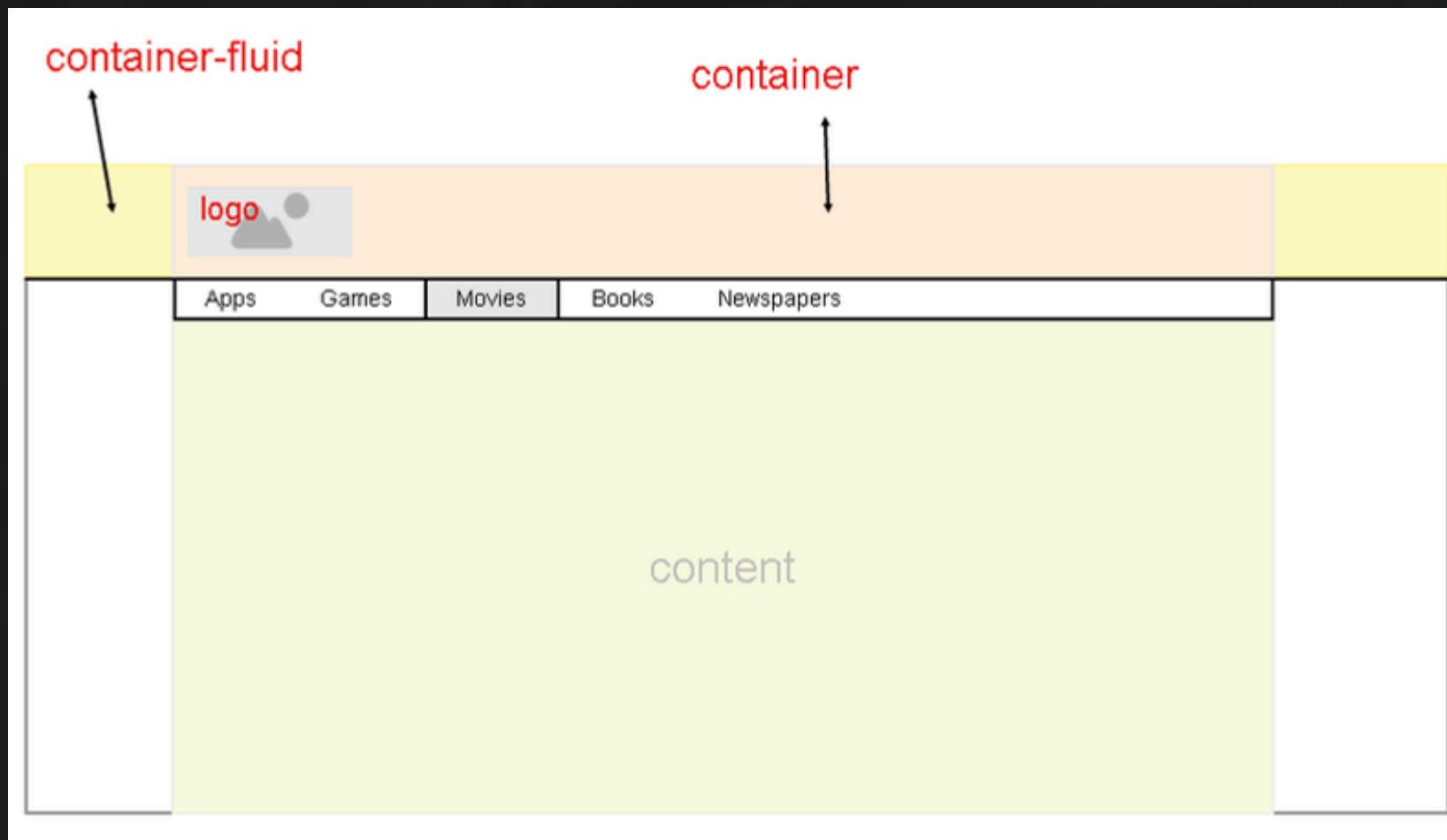
Fixed Container

- Class: `.container`
- Behaviour: Fixed width at each **breakpoint**, content centered
- Use Case: Traditional layouts with consistent margins

Fluid Container

- Class: `.container-fluid`
- Behaviour: Full width, stretches across viewport
- Use Case: Dashboards, apps, or full-width sections

CONTAINERS

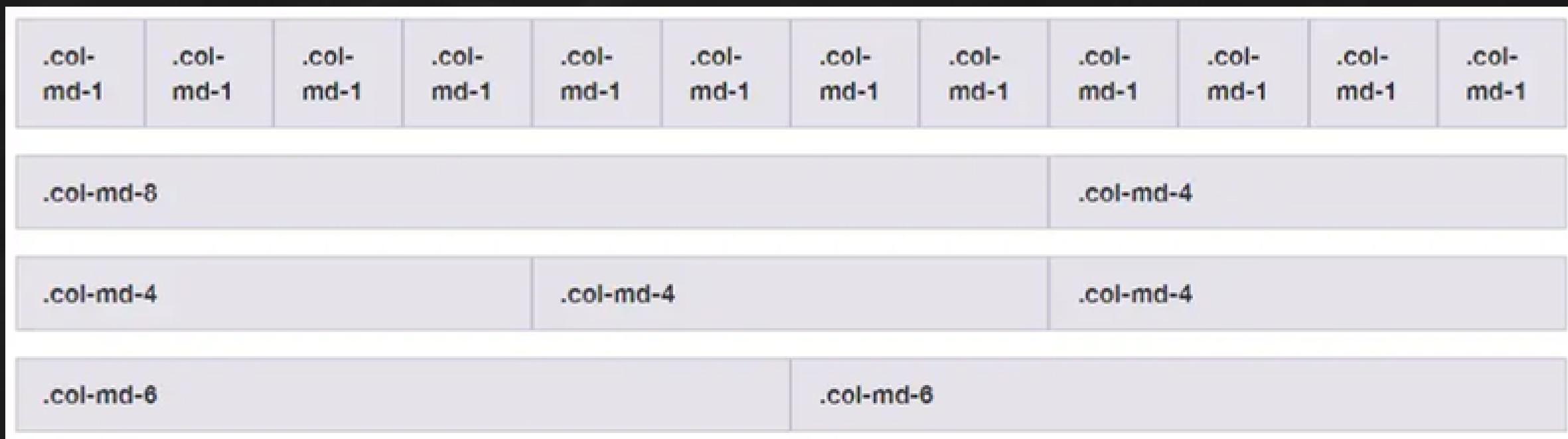


Responsive Container

- Classes: .container-sm, .container-md, .container-lg, .container-xl
- Behaviour: Fixed at specific breakpoint, fluid below it
- Use Case: Layouts needing control over responsiveness

BOOTSTRAP GRID SYSTEM

- layout system used to create responsive page structures
- divides the page into **12 equal** columns, allowing flexible and consistent layouts.



BOOTSTRAP GRID SYSTEM

Key Classes

- .row : Creates a horizontal group of columns, Removes extra spacing and aligns columns properly.
- .col-* : Defines column width, The number (*) indicates how many of the 12 columns are used.
- col-md-6 means each column takes 6 out of 12 columns (50%)
- On medium screens and larger → two columns side by side, On small screens → columns stack vertically (mobile-first behaviour)

```
<div class="row">
  <div class="col-md-6">50%</div>
  <div class="col-md-6">50%</div>
</div>
```

TYPOGRAPHY IN BOOTSTRAP

- Built-in typography **classes** to style text consistently and responsively without writing custom CSS

1) Headings (h1 – h6)

- Used for content hierarchy and structure.
- h1 is the **largest** heading, h6 is the **smallest**.

2) Lead Text

- Used to highlight important introductory text.
- Slightly larger and lighter than normal paragraph text.

Heading	Example
<code><h1></h1></code>	h1. Bootstrap heading
<code><h2></h2></code>	h2. Bootstrap heading
<code><h3></h3></code>	h3. Bootstrap heading
<code><h4></h4></code>	h4. Bootstrap heading
<code><h5></h5></code>	h5. Bootstrap heading
<code><h6></h6></code>	h6. Bootstrap heading

TYPOGRAPHY IN BOOTSTRAP

- Text Alignment Utilities : Control text alignment easily across screen sizes.
- Common Classes:
 - .text-start → left aligned
 - .text-center → center aligned
 - .text-end → right aligned

Using Text Alignment Classes

Text Center Alignment <small>Bootstrap is a popular open-source CSS framework for developing responsive and mobile-first web pages. It simplifies the web development process by providing a set of pre-designed components and utilities.</small>	Text Justify Alignment <small>Bootstrap is a popular open-source CSS framework for developing responsive and mobile-first web pages. It simplifies the web development process by providing a set of pre-designed components and utilities.</small>
--	---

TEXT & BACKGROUND COLORS

Text colors: Used to highlight status, importance, or meaning.

- `.text-primary` → Main theme color
- `.text-success` → Success or positive messages
- `.text-danger` → Errors or warnings

Bg colors: Used to emphasize sections, alerts, and cards.

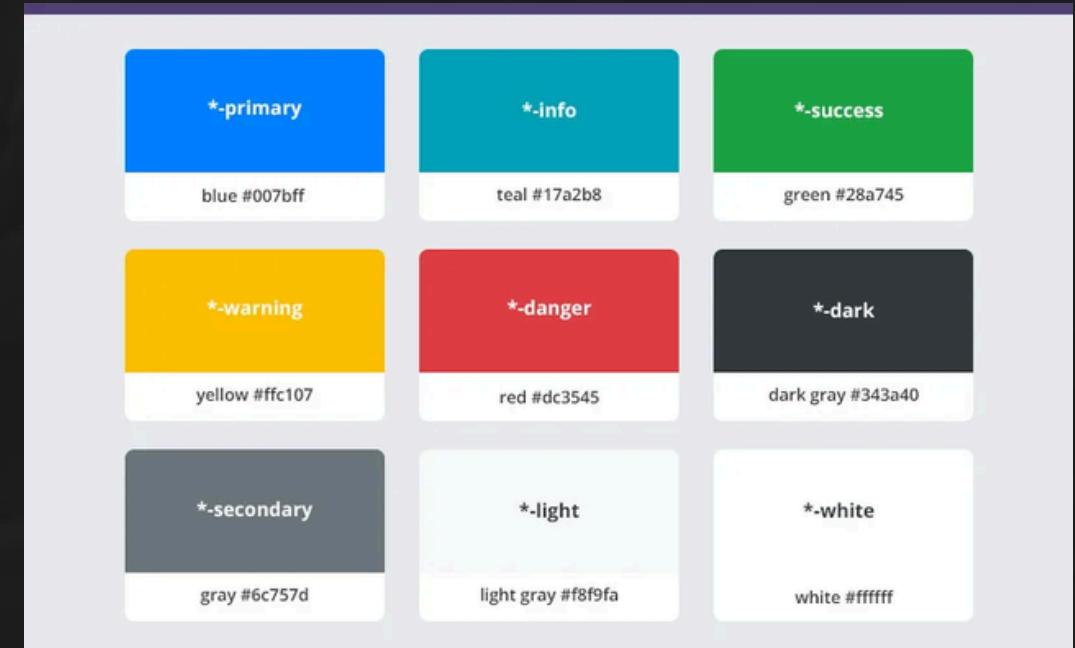
- `.bg-primary` → Primary theme background
- `.bg-warning` → Warning or attention-grabbing background
- `.bg-dark` → Dark background (often with light text)

Bootstrap 5 Background colors
<code>.bg-primary</code>
<code>.bg-secondary</code>
<code>.bg-success</code>
<code>.bg-danger</code>
<code>.bg-warning</code>
<code>.bg-info</code>

```
:root {  
  --bs-primary: #6f42c1;  
  --bs-success: #20c997;  
  --bs-danger: #e5533d;  
}
```

CONTEXTUAL COLORS

- Bootstrap uses contextual colors to communicate **meaning and status** clearly to users.
 - Success → Positive outcome (.text-success, .bg-success)
 - Warning → Caution or attention needed (.text-warning, .bg-warning)
 - Error → Failure or critical issue (.text-danger, .bg-danger)
 - Info → Neutral or informational message (.text-info, .bg-info)
-
- Bank transaction success → Green
 - Payment failure → Red
 - Low balance alert → Yellow
 - Account update message → Blue



TABLES IN BOOTSTRAP

- .table
- .table-striped
- .table-hover
- .table-responsive

Used in:

- Reports
- Admin panels
- Analytics dashboards

#	Name	Customer-ID	Email
1	John Peter	UKXYZ1481	johnpeter@mydomain.com
2	Tina Rob	UKXYZ2932	tinarob@mydomain.com
3	Paul Smith	UKXYZ6381	paulsmith@mydomain.com
4	Darren Merriday	UKXYZ7264	darrenmerriday@mydomain.com
5	Linda Grey	UKXYZ8330	lindagrey@mydomain.com

IMAGES IN BOOTSTRAP

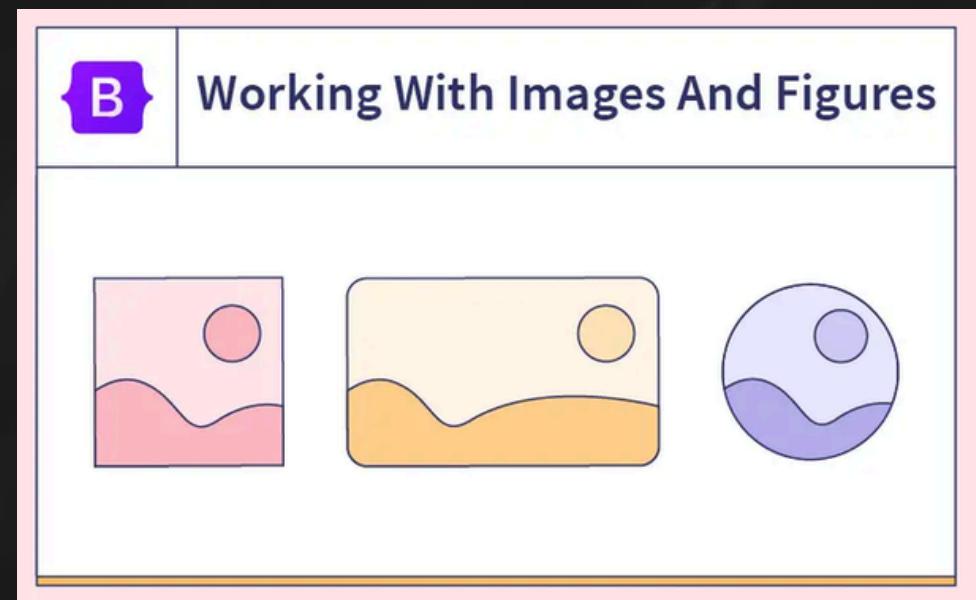
- Utility classes to make images responsive and visually consistent across devices.

Responsive Images

- `.img-fluid`
- Makes images scale automatically with the parent container
- Prevents images from overflowing on smaller screens

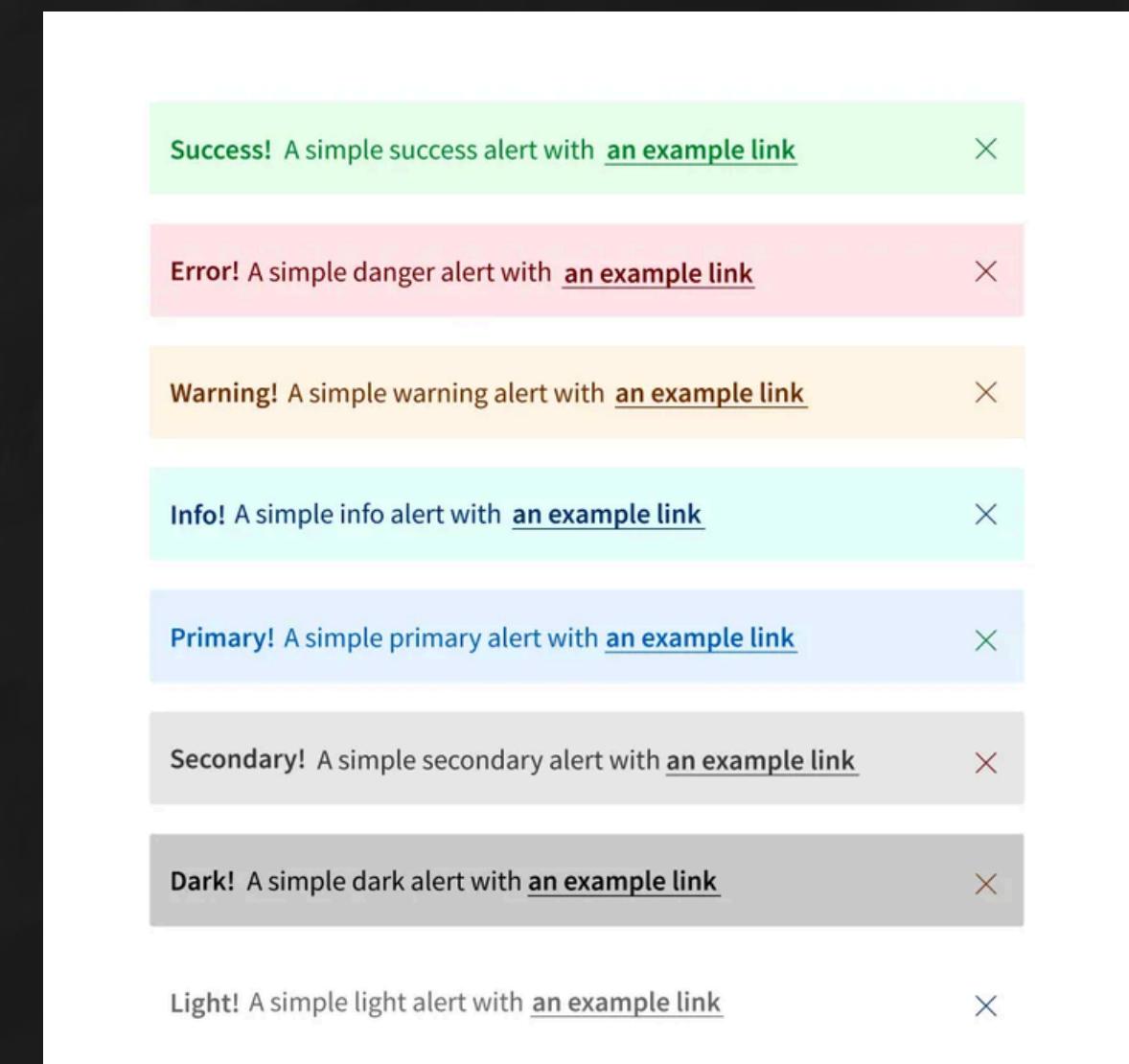
Image Shapes

- `.rounded` : Adds slightly rounded corners to images
- `.rounded-circle` : Converts square images into circular shapes



ALERTS COMPONENT

- Alerts are used to display important messages to users, such as confirmations, warnings, or errors
- .alert
- .alert-success
- .alert-danger



INDUSTRY USAGE AND REAL-WORLD SCENARIOS

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INDUSTRY USAGE

- Scenario: Admin Dashboard
- Fast development needed
- Responsive tables
- Alerts & forms
- Solution:
- Bootstrap + minimal custom CSS



COMPARISON OF BOOTSTRAP 4 AND BOOTSTRAP 5

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COMPARISON

Feature	Bootstrap 4	Bootstrap 5	Notes / Advantages
JavaScript Dependency	Requires jQuery	Uses Vanilla JavaScript (no jQuery)	Smaller bundle, easier integration with modern frameworks
Grid System	Flexbox	Flexbox (improved)	New responsive container options
Icons	External (Font Awesome, etc.)	Bootstrap Icons (official)	Lightweight, SVG-based, consistent design
Form Controls	Limited customization	Redesigned forms and floating labels	Cleaner, modern look
Utility Classes	Fewer CSS variables	More utilities, CSS variables	Easier theme customization
Browser Support	IE10+	Modern browsers only (no IE support)	Reduced legacy code, better performance
Performance	Good	Improved	Smaller JS, faster page load, more efficient rendering

WHEN TO USE BOOTSTRAP AND WHEN NOT TO USE IT

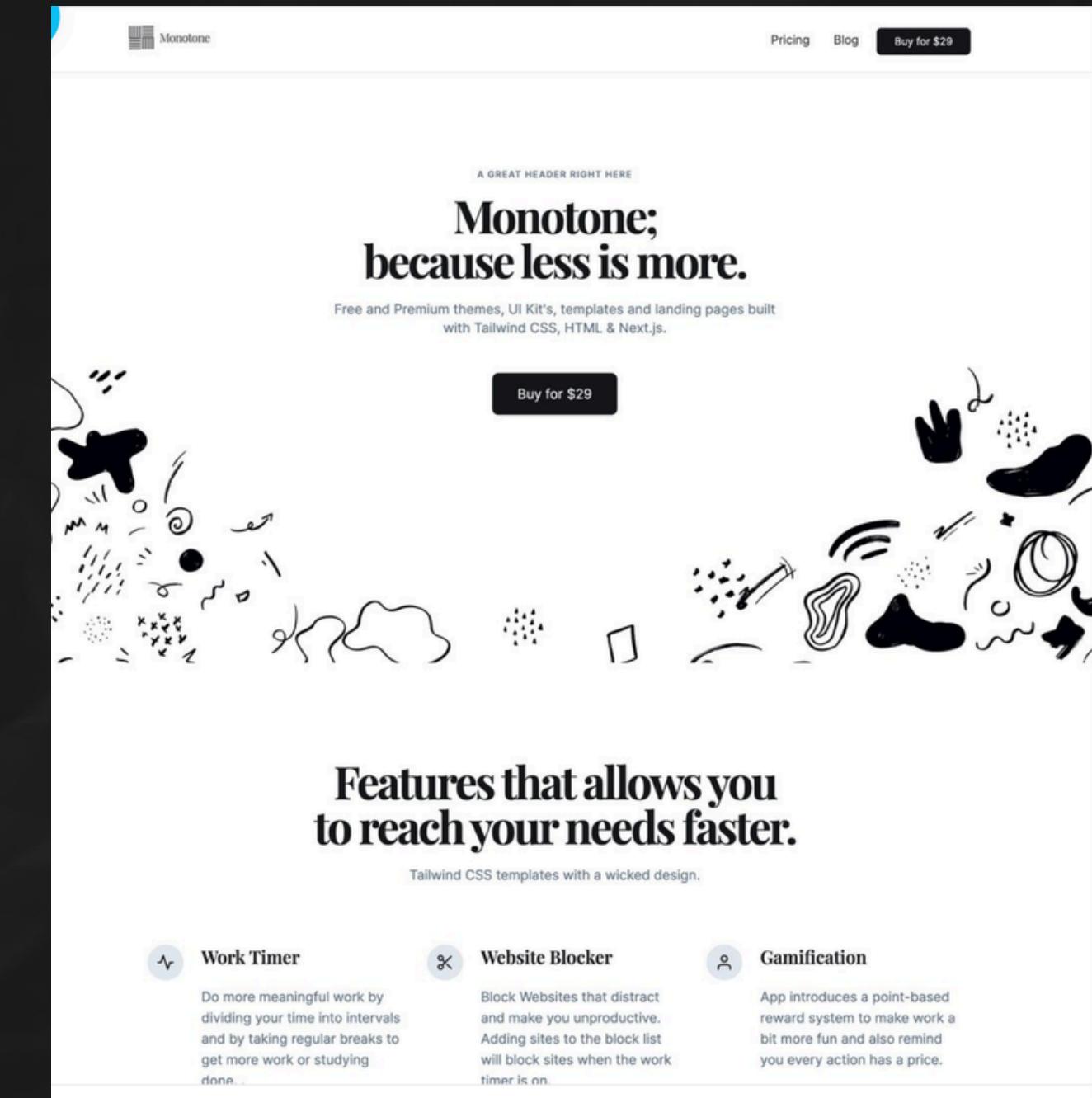
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WHEN BOOTSTRAP IS THE RIGHT CHOICE

- Quick MVPs
- Admin dashboards
- Internal enterprise tools

When It's Not

- Highly custom UI
- Design-heavy consumer apps





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PROBLEM STATEMENT

Design and develop a responsive website for various clubs in Vishwakarma Institute of Technology using:

- Object Oriented features of HTML, CSS, JavaScript
- jQuery and Bootstrap functions
- Form validation
- Video as background
- CSS Selectors for interaction
- Emailing success stories
- Client-side credential storage in htdocs

Assignment	What Was Added
1	HTML only structure
2	CSS box model & layout
3	JavaScript validation & video background
4	OOP concepts + CSS selectors
5	jQuery for DOM manipulation
6	Bootstrap + Responsiveness

FOLDER STRUCTURE

- No database required

Store data -

- In JS variables
- Or browser localStorage

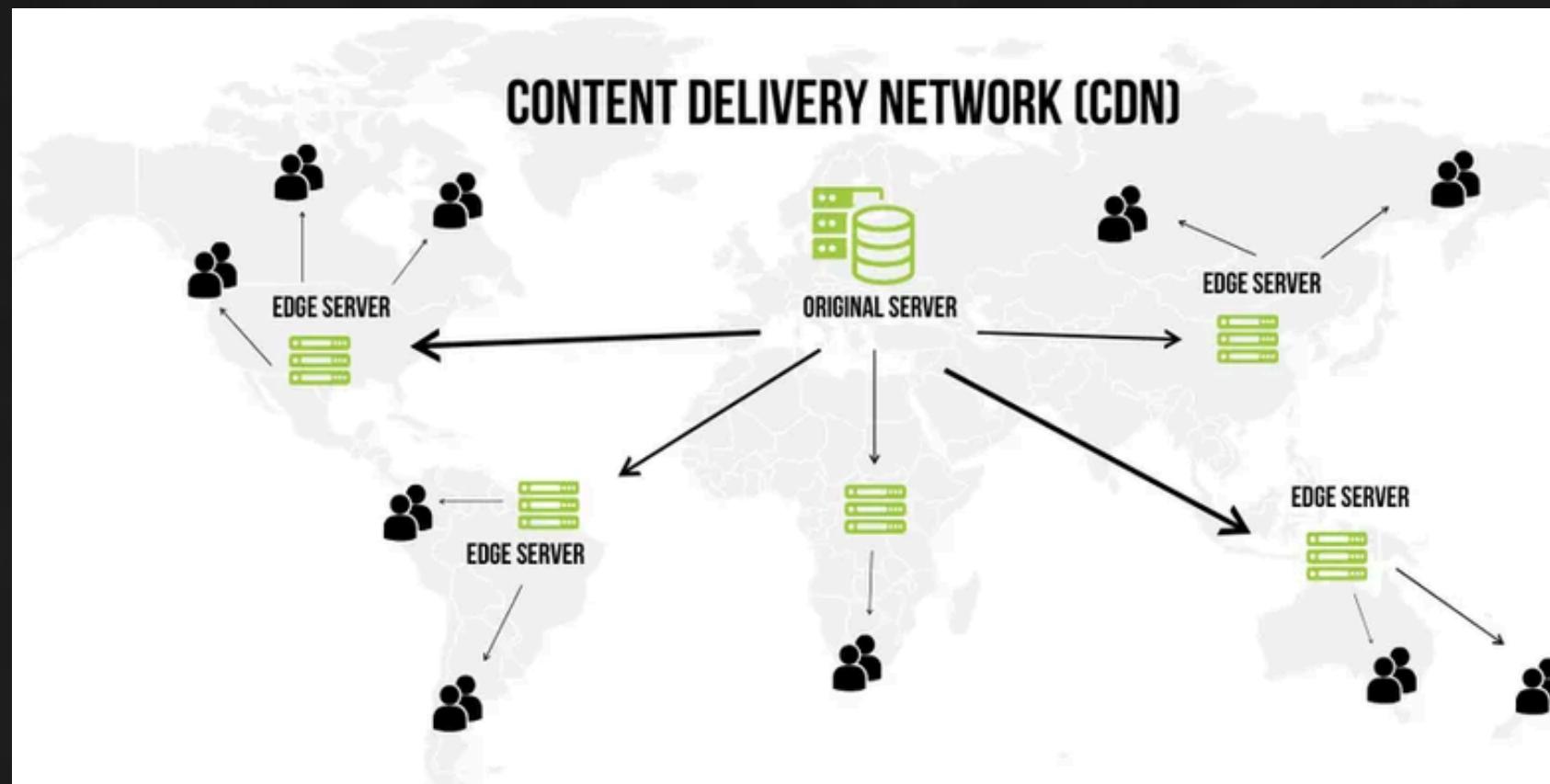
xampp/htdocs/vit-clubs

```
PS D:\Bootstrap session\htdocs> tree /F
Folder PATH listing for volume Data
Volume serial number is D637-970C
D:.
└── vit-clubs
    ├── index.html
    ├── assets
    │   └── video.mp4
    ├── css
    │   └── style.css
    └── js
        └── script.js
```

```
PS D:\Bootstrap session\htdocs> |
```

BOOTSTRAP CDN SETUP

1. Create a new `index.html` file in your project root. Include the `<meta name="viewport">` tag as well for [proper responsive behavior](#) in mobile devices.



2. Include Bootstrap's CSS and JS. Place the `<link>` tag in the `<head>` for our CSS, and the `<script>` tag for our JavaScript bundle (including Popper for positioning dropdowns, popovers, and tooltips) before the closing `</body>`. Learn more about our [CDN links](#).

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Bootstrap demo</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.8/dist/css/bootstrap.min.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello, world!</h1>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.8/dist/js/bootstrap.bundle.min.js"></script>
  </body>
</html>
```

You can also include [Popper](#) and our JS separately. If you don't plan to use dropdowns, popovers, or tooltips, save some kilobytes by not including Popper.

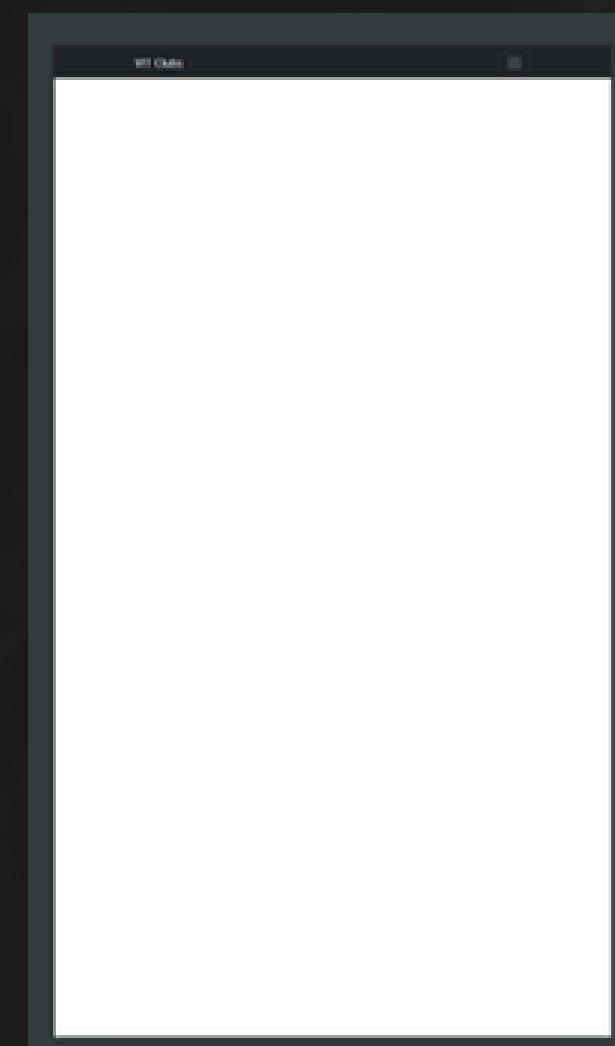
```
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/popper.min.js" integrity="sha384-5RqzCQVHP9qKmekw1Vr6xWUkA2dFf45p0lD4qZ8m8L+0w4E6m7P9i1&lt;/script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.8/dist/js/bootstrap.min.js" integrity="sha384-5RqzCQVHP9qKmekw1Vr6xWUkA2dFf45p0lD4qZ8m8L+0w4E6m7P9i1&lt;/script>
```

RESPONSIVE NAVBAR

VIT Clubs

Clubs Success

```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
  <div class="container">
    <a class="navbar-brand" href="#">VIT Clubs</a>
    <button class="navbar-toggler" data-bs-toggle="collapse" data-bs-target="#menu">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="menu">
      <ul class="navbar-nav ms-auto">
        <li class="nav-item"><a class="nav-link" href="#clubs">Clubs</a></li>
        <li class="nav-item"><a class="nav-link" href="#success">Success</a></li>
      </ul>
    </div>
  </div>
</nav>
```



VIDEO BG

```
<!-- Video bg section -->
```

```
<video autoplay muted loop class="w-100 position-fixed">
  <source src="assets/video.mp4" type="video/mp4">
</video>
```

HTML

```
/* video bg */
video {
z-index: -1;
height: 100vh;
object-fit: cover;
}
```

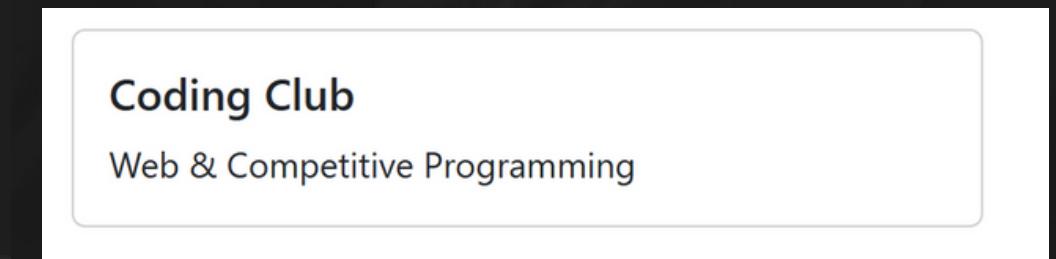
CSS



CLUBS SECTION (CARDS)

```
<!-- clubs SECTION -->
| <!-- pt = padding top -->
<div class="container mt-5 pt-5" id="clubs">
  <div class="row">

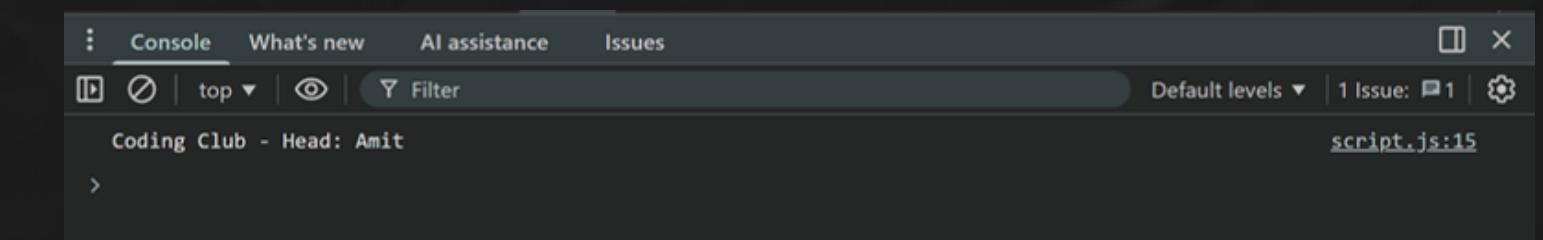
    <!-- Responsiveness Demo -->
    <div class="col-sm-12 col-md-6 col-lg-4">
      <div class="card club-card">
        <div class="card-body">
          <h5 class="card-title">Coding Club</h5>
          <p class="card-text">Web & Competitive Programming</p>
        </div>
      </div>
    </div>
  </div>
</div>
```



OOP CONCEPT IN JAVASCRIPT

```
// OOP Concept
class Club {
    constructor(name, head) {
        this.name = name;
        this.head = head;
    }
    display() {
        return `${this.name} - Head: ${this.head}`;
    }
}

// Object creation
let codingClub = new Club("Coding Club", "Amit");
console.log(codingClub.display());
```



CSS SELECTORS FOR INTERACTION

```
/* Selectors */  
  
.card:hover {  
    transform: scale(1.05);  
    transition: 0.3s;  
    color: blue;  
}
```

Coding Club
Web & Competitive Programming

JQUERY FOR SUCCESS STORY UPDATE

```
// jQuery interaction
$("#addStory").click(function () {
    $("#stories").append("<li>National Hackathon Winner</li>");
});
```

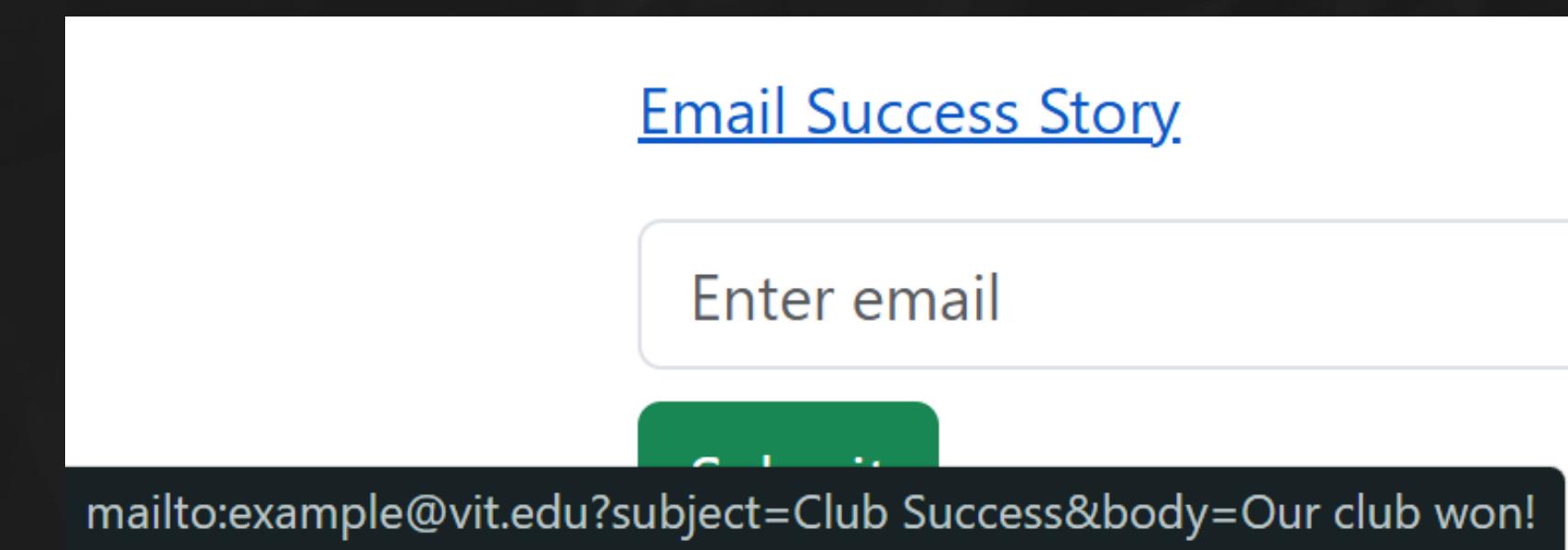
Success Stories

- National Hackathon Winner
- National Hackathon Winner
- National Hackathon Winner

Add Success Story

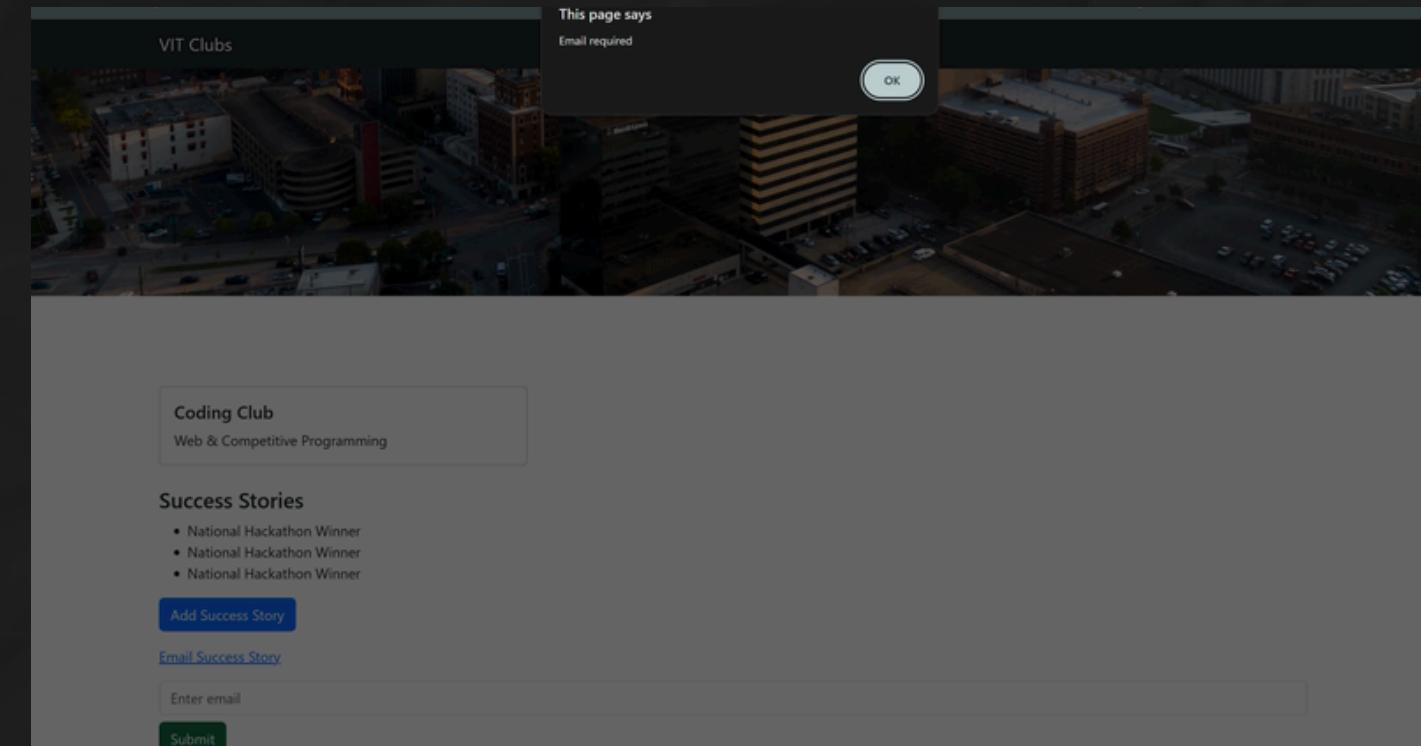
EMAILING SUCCESS STORIES

```
<div class="container mt-3">
  <a href="mailto:example@vit.edu?subject=Club Success&body=Our club won!">
    Email Success Story
  </a>
</div>
```



FORM VALIDATION (JAVASCRIPT)

```
<!-- FORM VALIDATION -->
| <!-- mt-3 = margin top 3 -->
<div class="container mt-3">
  <form onsubmit="return validate()">
    <input type="email" id="email" class="form-control" placeholder="Enter email">
    <button class="btn btn-success mt-2">Submit</button>
  </form>
</div>
```



RESPONSIVENESS DEMONSTRATION

```
<!-- pt = padding top -->


##### Coding Club



Web & Competitive Programming



##### Robotics Club



Automation & AI

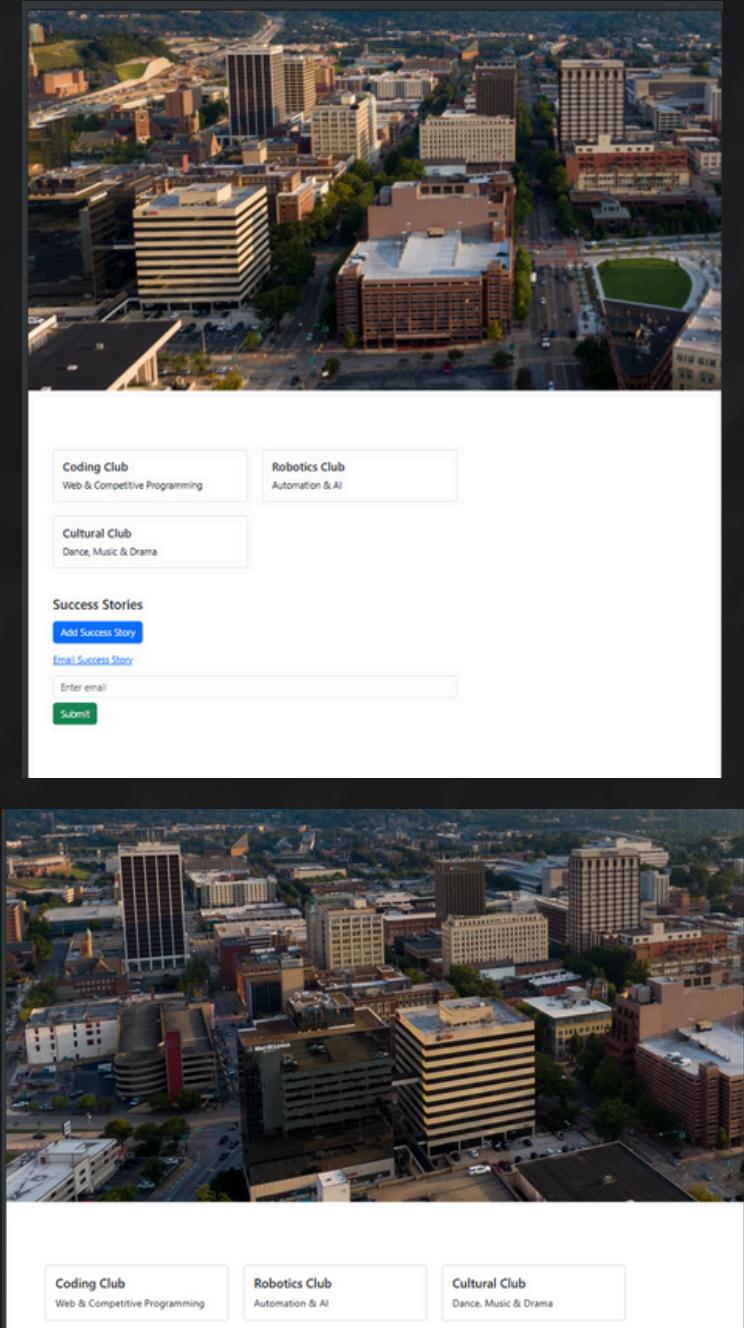
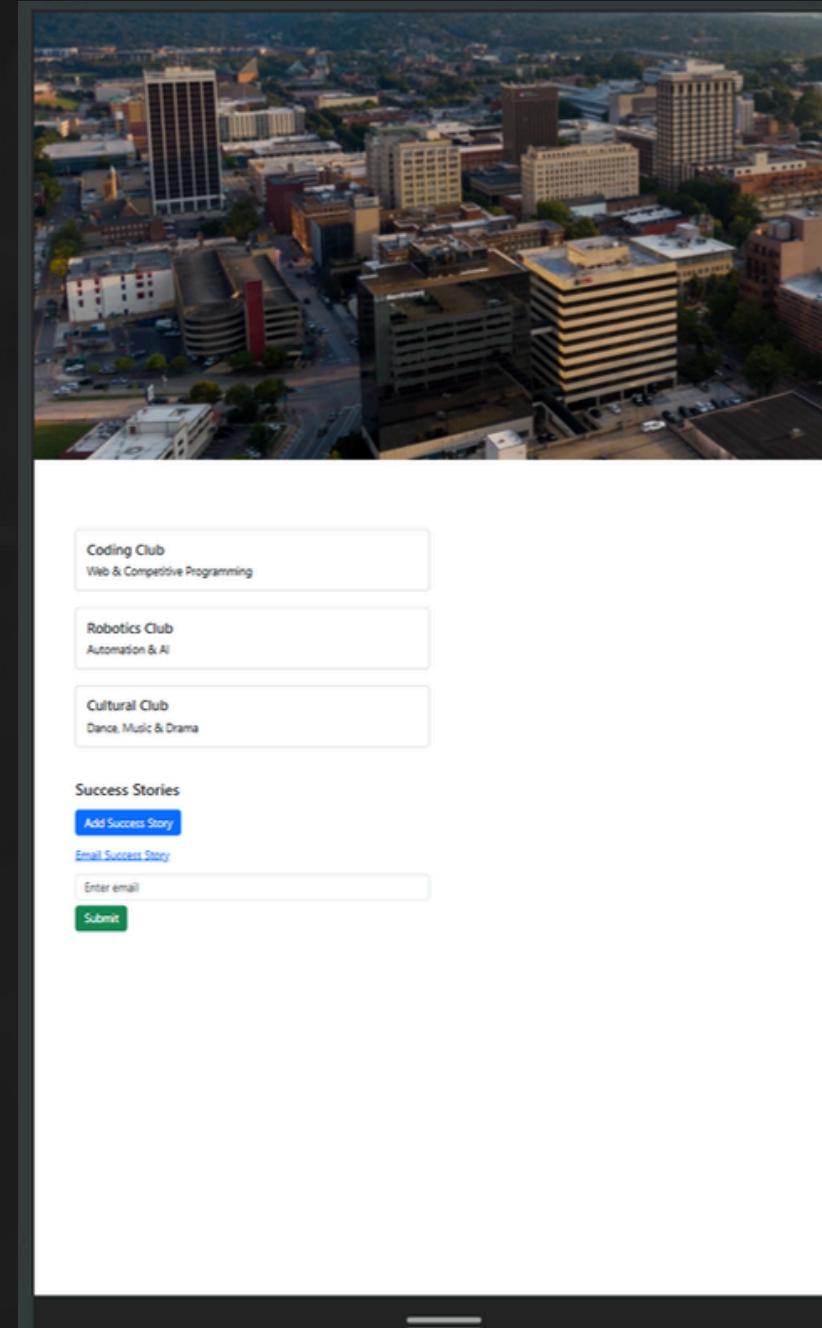


##### Cultural Club

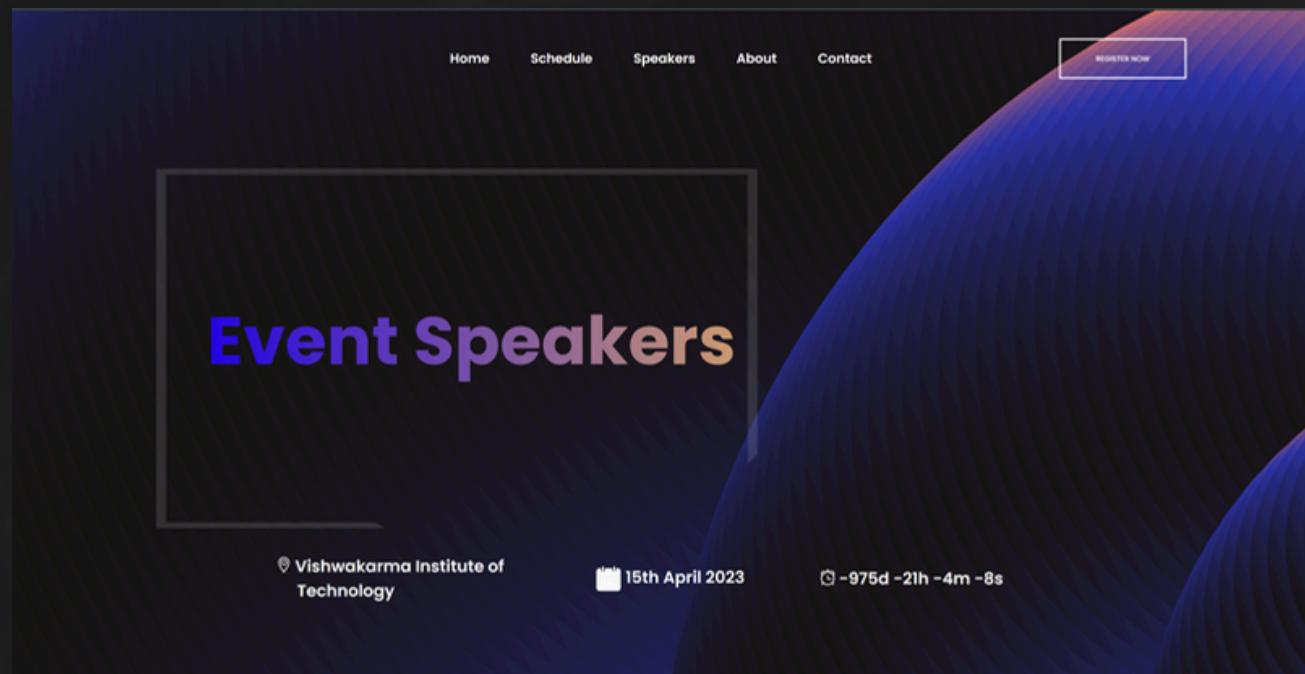
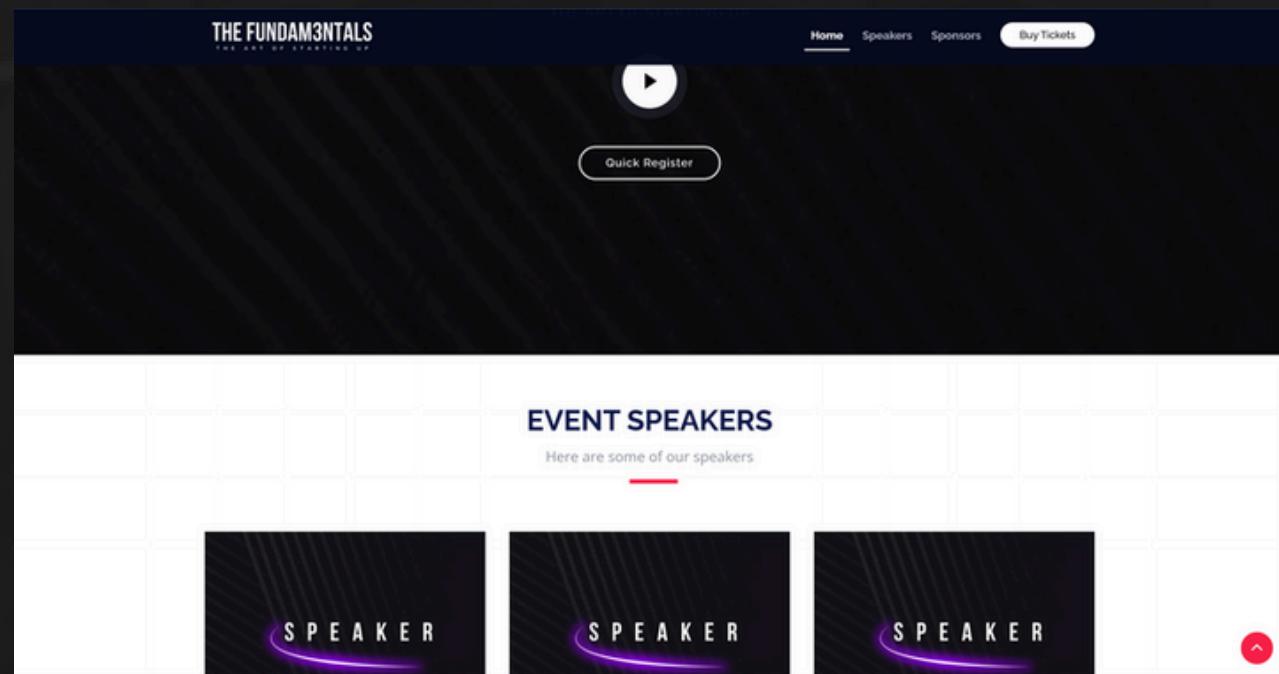


Dance, Music & Drama


```



REFERENCE PROJECTS



CLICK 

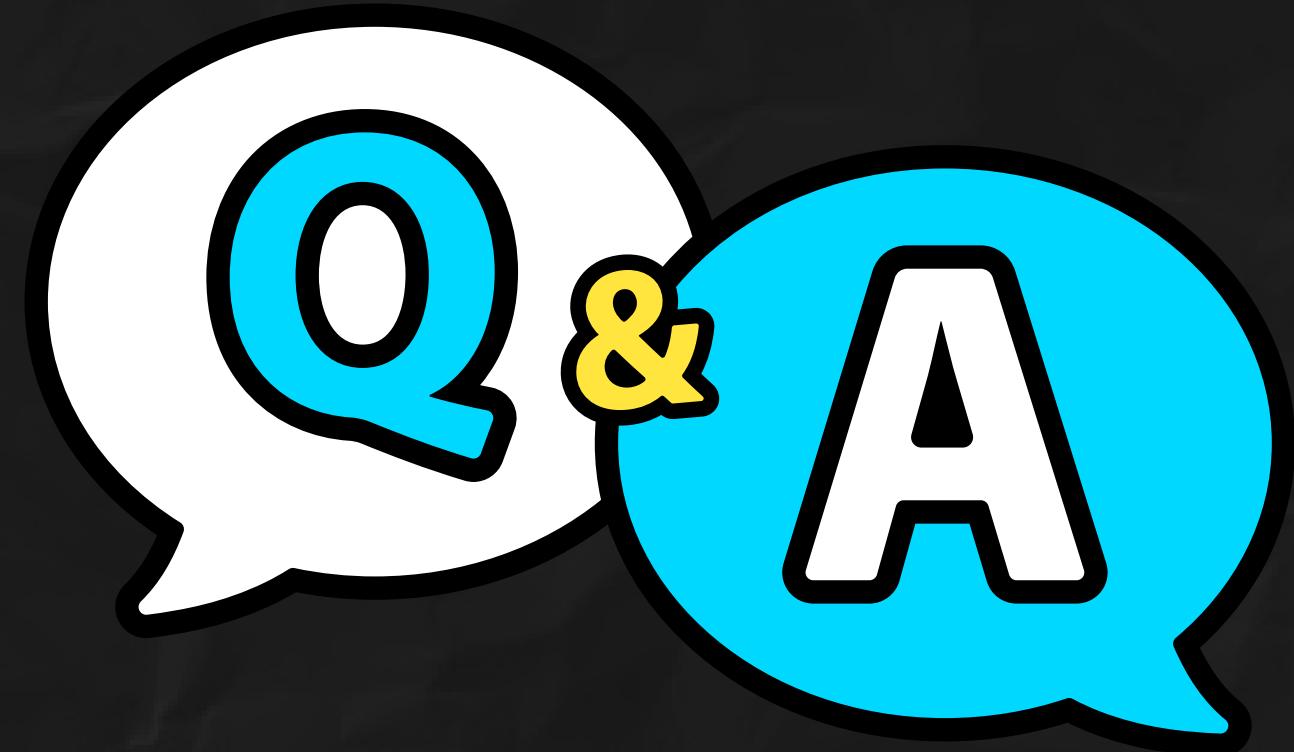
CLICK 

HOSTINGONGITHUB



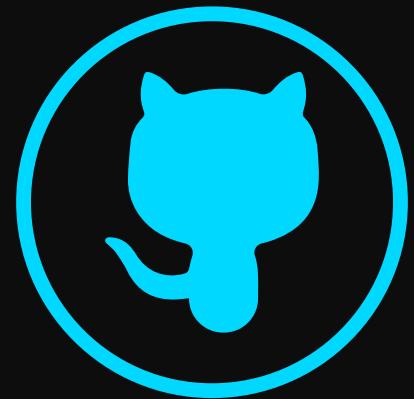
Deployments 95

-  **github-pages** 2 years ago
- [+ 94 deployments](#)



TOPIC
INTRODUCTION TO BOOTSTRAP
REASONS TO LEARN BOOTSTRAP IN 2025
BOOTSTRAP AND AI
RESPONSIVE WEB DESIGN AND MOBILE-FIRST APPROACH
CORE BOOTSTRAP CONCEPTS
INDUSTRY USAGE AND REAL-WORLD SCENARIOS
COMPARISON OF BOOTSTRAP 4 AND BOOTSTRAP 5
WHEN TO USE BOOTSTRAP AND WHEN NOT TO USE IT
PROJECT
Q&A

Thank you !



Kartik-Katkar



Kartik Katkar

Resources : [Github Link](#)