











Bootstrap 5 sample project

-  Step-1– basics
-  Step-2–basic text boot strap
-  Step-3—Nav bar
-  Step-4–Add image to visual studio code
-  Step-5—show case section
-  Step-6–sign up for our NewsLetter
-  Step-7–card section
-  Step-8–learn fundamental section
-  Step-9–Ask question section
-  Step-10–Instructor-section



Step-1– basics



1. Introduction to Bootstrap

- Bootstrap is a **CSS framework** created to make web design faster.
- Provides **ready-made classes** for responsive design, layout, typography, forms, buttons, navigation, etc.
- Saves time: no need to write CSS from scratch.

2. Downloading / Using Bootstrap

- Two ways to use Bootstrap:
 1. **CDN (Content Delivery Network):**
 - Add `<link>` in your HTML `<head>`.
 - Quick and easy, always latest version.
 2. **Local Download:**

- Download Bootstrap files and include them in your project.
 - Useful if working offline.
-

3. Layout Basics

- Bootstrap uses a **12-column grid system**.

Structure:

```
<div class="container">
  <div class="row">
    <div class="col">Column 1</div>
    <div class="col">Column 2</div>
  </div>
</div>
```

- **container** = fixed-width wrapper.
 - **row** = horizontal grouping of columns.
 - **col** = automatically adjusts width.
-

4. Responsive Design

- Columns can be defined for different screen sizes:
 - **col-sm-6** → for small screens (≥576px).
 - **col-md-4** → for medium screens (≥768px).
 - **col-lg-3** → for large screens (≥992px).
- This makes layouts adjust automatically for **mobile, tablet, desktop**.

Bootstrap 5 Notes (Condensed – Part 2)

5. Typography & Text Utilities

- Bootstrap gives **ready classes** for text formatting.
 - Examples:
 - `text-start`, `text-center`, `text-end` → alignment.
 - `fw-bold`, `fw-light` → bold/light font weight.
 - `text-uppercase`, `text-lowercase`, `text-capitalize` → case transformation.
 - `text-muted` → faded/secondary text.
-

6. Colors

- Predefined color classes:
 - `text-primary`, `text-danger`, `text-success`, `text-warning`, `text-info`, `text-dark`, `text-light`.
 - `bg-primary`, `bg-danger`, etc. → for background colors.
 - Used for emphasis, alerts, highlights.
-

7. Buttons

- Simple and powerful.
- Base class: `btn`.
- Variants: `btn-primary`, `btn-danger`, `btn-success`, `btn-warning`, `btn-info`, `btn-dark`, `btn-light`.

- Size control:
 - `btn-lg` → large button.
 - `btn-sm` → small button.
 - Full-width: `d-block w-100`.
-

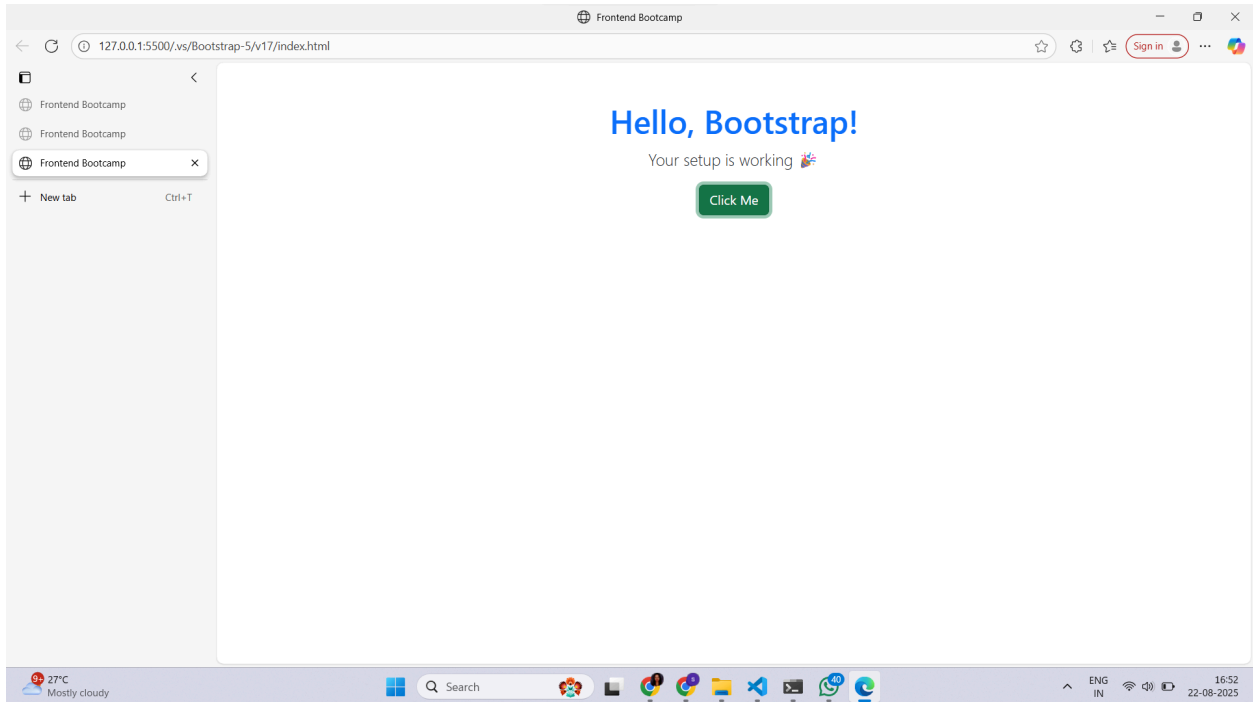
8. Images

- Responsive images:
 - `img-fluid` → adjusts size automatically.
- Shapes:
 - `rounded` → soft corners.
 - `rounded-circle` → circular.
 - `img-thumbnail` → adds border and padding.



Step-2–basic text boot strap





```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8"> <!-- Supports all characters -->
  <meta name="viewport" content="width=device-width, initial-scale=1.0"> <!-- Responsive -->
  <title>Frontend Bootcamp</title>

  <!-- 🌸 Bootstrap 5 CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">

  <!-- 🌸 Custom CSS -->
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container text-center mt-5">
    <!-- container = Bootstrap layout wrapper -->
    <!-- text-center = center align text -->
    <!-- mt-5 = margin-top spacing -->

    <h1 class="text-primary">Hello, Bootstrap!</h1>
    <!-- text-primary = Bootstrap blue color -->

    <p class="lead">Your setup is working 🎉</p>
    <!-- lead = bigger, lighter paragraph -->

    <button class="btn btn-success">Click Me</button>
    <!-- btn btn-success = Bootstrap green button -->
```

</div>

<!-- 🌸 Bootstrap 5 JS (for dropdowns, modals, etc.) -->

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>

</body>

</html>

🚀 [RTC]index.html—open with live server

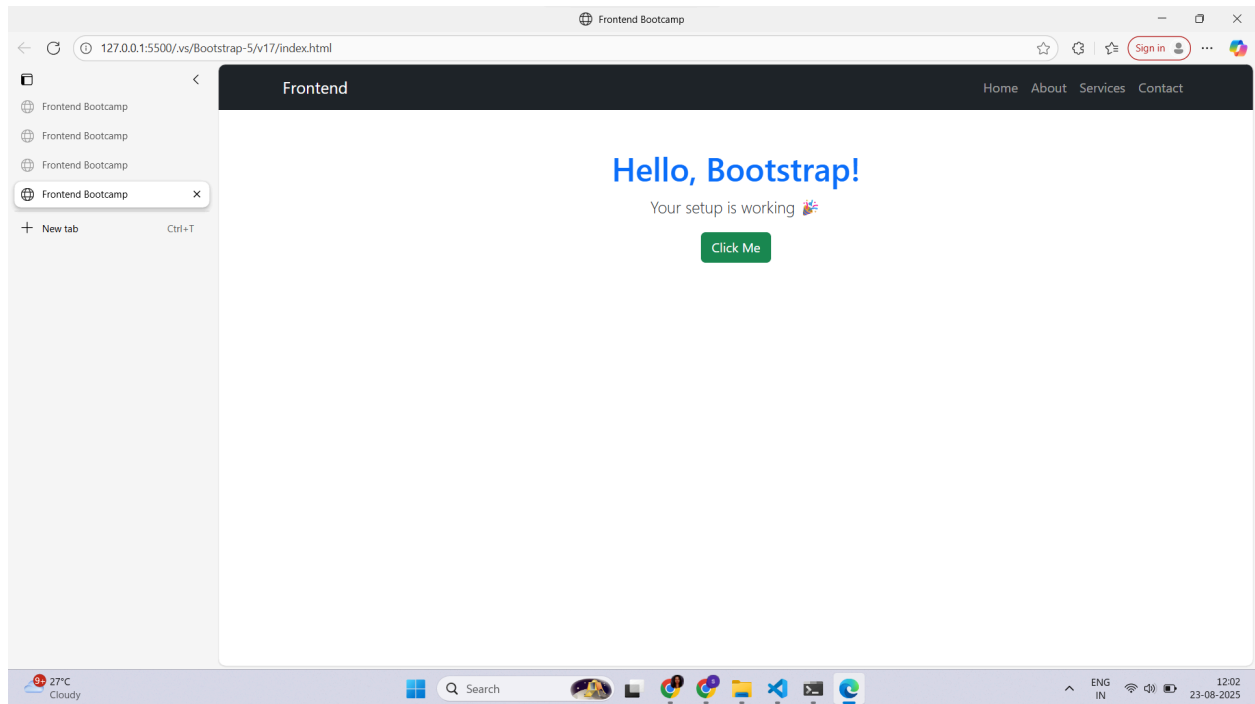


Step-3—Nav bar



planings

- A dark navbar with “Frontend” as the brand.
- Links Home, About, Services, Contact on the right.
- On mobile, it collapses into a hamburger menu.



<!-- ✅ Responsive Navbar -->

<nav class="navbar navbar-expand-lg bg-dark navbar-dark">

<!--→ 🌸 navbar-expand-lg → expands on large screens, collapses on small -->

<!--→ 🌸 bg-dark navbar-dark → dark background with light text -->

<div class="container">

<!--→ 🌸 container → centers and limits width -->

Frontend

<!-- → 🌸 navbar-brand → Website name/logo -->

<!-- ✅ Hamburger button (shows on small devices) -->

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

</button>

<!-- ✅ Menu items (collapse on mobile) -->

<div class="collapse navbar-collapse" id="navbarNav">

<ul class="navbar-nav ms-auto">

<!--→ 🌸 ms-auto → pushes links to right side -->

<li class="nav-item">Home

<li class="nav-item">About

<li class="nav-item">Services

<li class="nav-item">Contact

```

        </ul>
    </div>
</div>
</nav>

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

```



Step-4—Add image to visual studio code

  How to add this image in Visual Studio?

Step 1: Create the folder

- In Solution Explorer, right-click the root of your project.
- Select Add → New Folder.
- Name it **img**.

Step 2: Add the image file

- Right-click the **img** folder → reveal file explorer → save as **showcase**

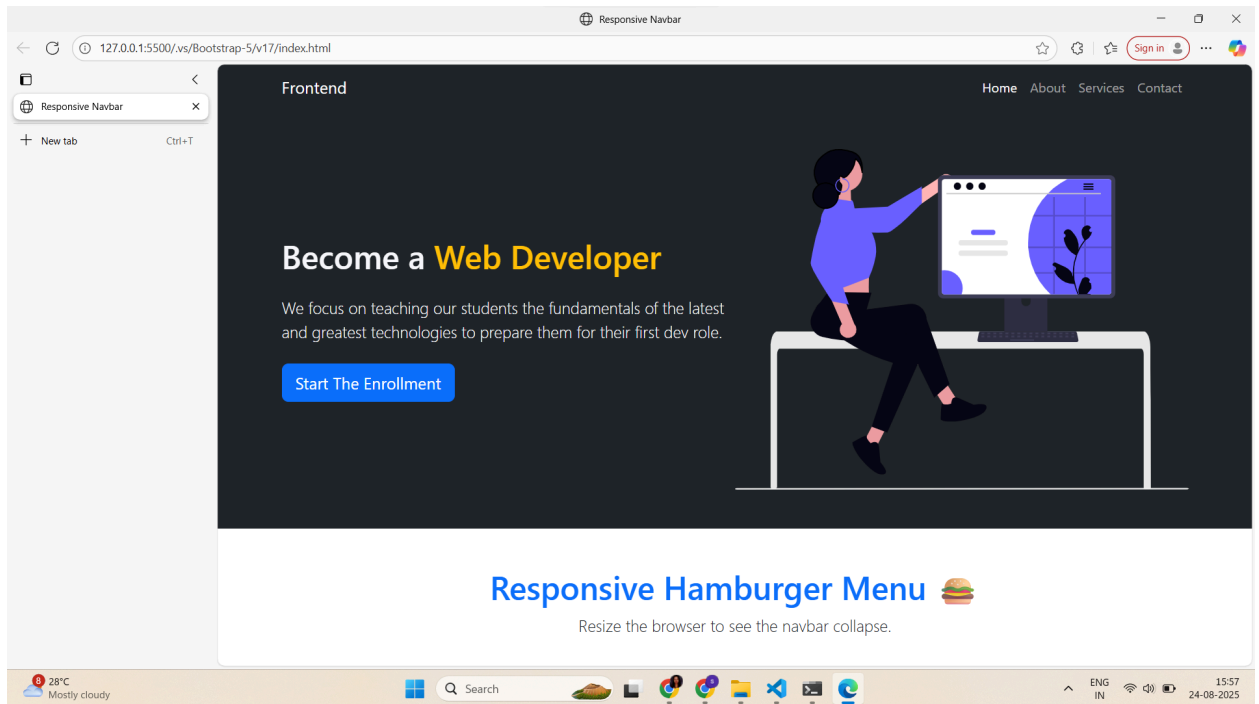
Step-5—show case section



planings

 This section gives you a hero/intro area:

- Left = heading, paragraph, button
- Right = responsive image (only on sm+ screens)



<!-- ✅ Showcase Section -->

<section class="bg-dark text-light p-5 text-center text-sm-start">

<!-- 🌸 -- bg-dark text-light p-5 → dark background, white text, padding (5) -->

<!-- 🌸 -- text-center → center text on xs screens -->

<!-- 🌸 -- text-sm-start → align text left on small screens and up -->

<div class="container">

<div class="d-sm-flex align-items-center justify-content-between">

<!-- 🌸 -- d-sm-flex → flexbox only on small screens and larger -->

<!-- 🌸 -- align-items-center → vertical center alignment -->

<!-- 🌸 -- justify-content-between → space between text and image -->

<div>

<h1>

Become a Web Developer

<!-- 🌸 -- text-warning → highlights in yellow -->

</h1>

<p class="lead my-4">

<!-- 🌸 -- lead → larger paragraph text -->

<!-- 🌸 -- my-4 → margin top & bottom -->

We focus on teaching our students the fundamentals of the latest and greatest technologies to prepare them for their first dev role.

</p>

```
<button class="btn btn-primary btn-lg">Start The Enrollment</button>
<!-- btn btn-primary btn-lg → big primary-colored button -->
</div>
```

```
<!--  Showcase Image -->
```

```

```

```
<!--  -- img-fluid → responsive image -->
```

```
<!--  -- w-50 → takes 50% of width -->
```

```
<!--  -- d-none d-sm-block → hidden on extra small, visible on sm and up -->
```

```
</div>
```

```
</div>
```

```
</section>
```



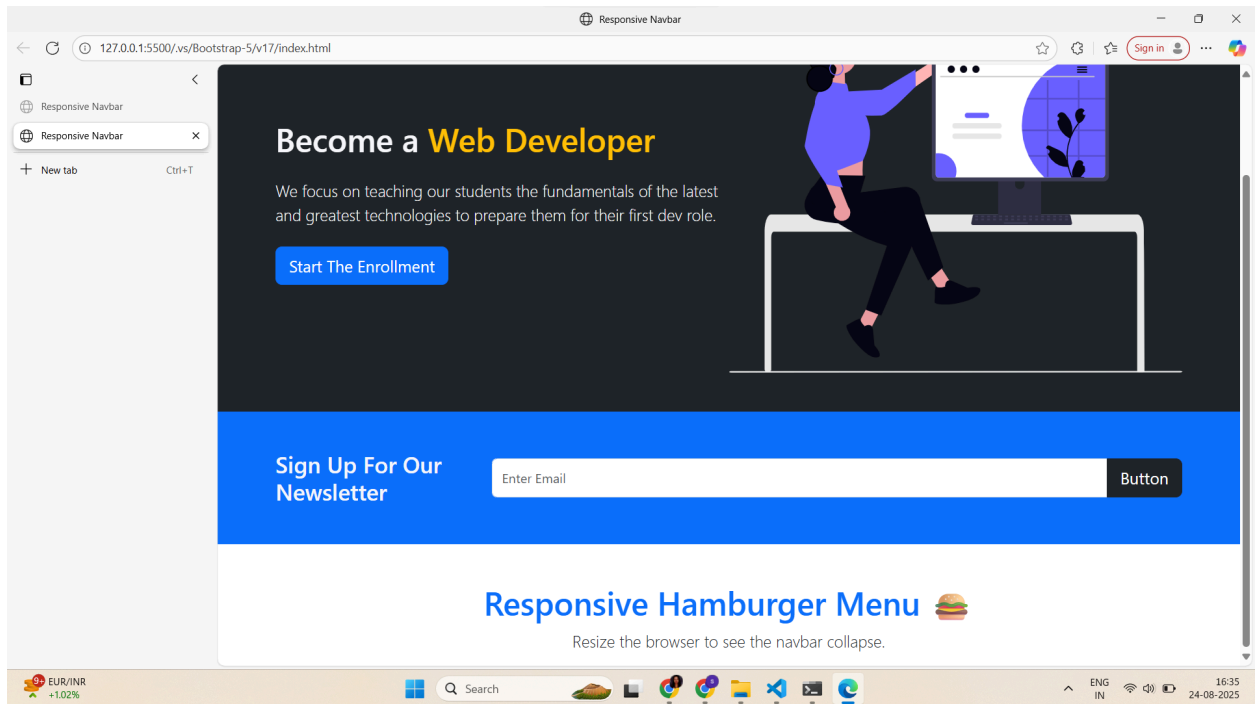
Step-6 sign up for our Newsletter



Planning — Newsletter Section

 Goal: Create a newsletter signup bar where:

- Left = Heading (call to action text)
- Right = Input + Button (aligned horizontally on medium+ screens, stacked on mobile)



<!--  Newsletter Section -->

<section class="bg-primary text-light p-5">

<!-- bg-primary → Bootstrap primary (blue) background -->

<!-- text-light → white text -->

<!-- p-5 → padding all around -->

<div class="container">

<div class="d-md-flex justify-content-between align-items-center">

<!-- d-md-flex → flexbox only on medium screens and up -->

<!-- justify-content-between → pushes items apart -->

<!-- align-items-center → vertical centering -->

<!-- <!-- Left (Heading) --->

```
<h3 class="mb-3 mb-md-0">Sign Up For Our Newsletter</h3>
```

```
<!-- mb-3 → margin bottom on small screens -->
```

```
<!-- mb-md-0 → remove margin bottom on md+ screens -->
```

```
<!-- Input + Button -->
```

```
<div class="input-group news-input">
```

```
<!-- input-group → wraps input and button together -->
```

```
<input
```

```
  type="text"
```

```
  class="form-control"
```

```
  placeholder="Enter Email"
```

```
<!-- form-control → styled Bootstrap input -->
```

```
<button class="btn btn-dark btn-lg" type="button">
```

```
  Subscribe
```

```
</button>
```

```
<!-- btn-dark btn-lg → large dark button -->
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</section>
```



step-7 card sections



plannings

- 3 cards in one row on medium screens and larger.
- On mobile → cards stack vertically.
- Each card styled separately (**bg-dark**, **bg-secondary**).
- Different buttons (**btn-primary**, **btn-dark**).

1First card

1. Background → **bg-dark**

2. Icon → **bi bi-laptop**

3. Card title → **Virtual**

2Second card

1. Background → **bg-secondary**

2. Icon → **bi-person-square**

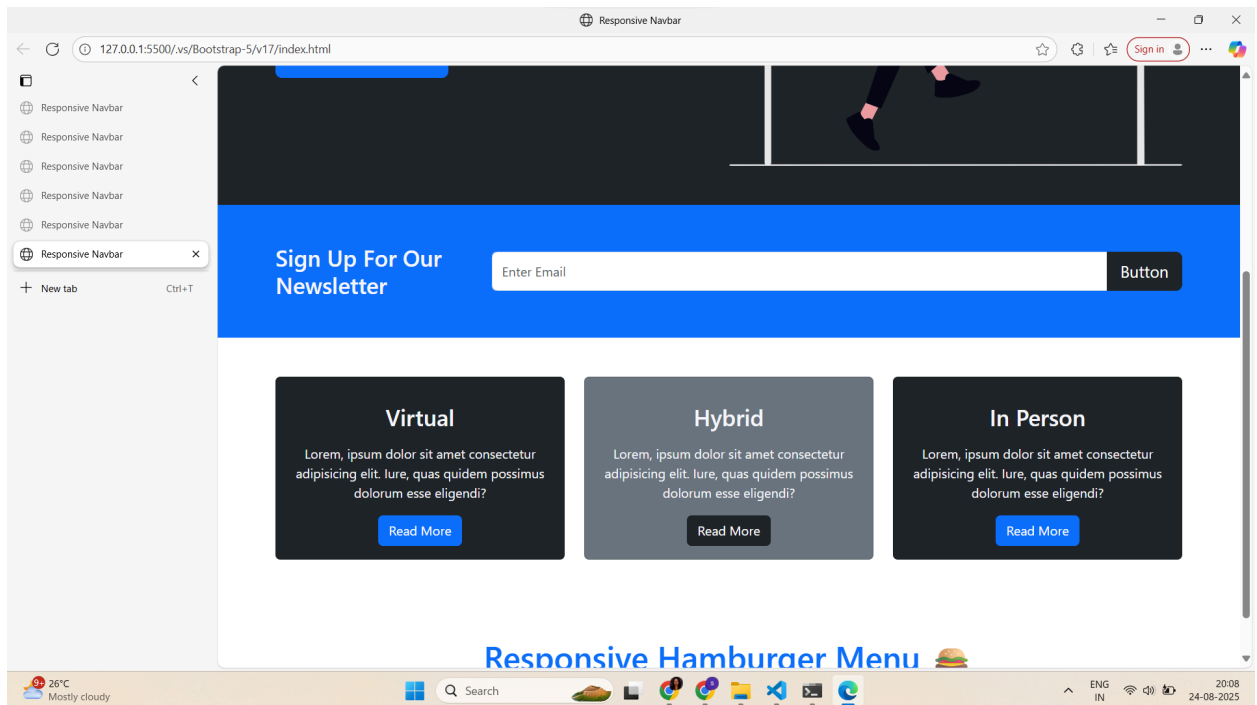
3. Card title → **Hybrid**

3Third card

1. Background → **bg-dark**

2. Icon → **bi bi-laptop**

3. Card title → **Inperson**



<!-- Boxes Section -->

<section class="p-5"> → Padding around the section.

<div class="container"> → Center content.

<div class="row text-center"> → Bootstrap row with text centered.

<!-- Card 1: Virtual -->

<div class="col-md"> → Each column takes equal space on medium screens and above.

<div class="card bg-dark text-light"> → Bootstrap row with text centered.

<div class="card-body text-center">

<div class="h1 mb-3">

<i class="bi bi-laptop"></i> <!-- Laptop icon --> → Bootstrap Icons (laptop icon).

</div>

<h3 class="card-title mb-3">Virtual</h3>

<p class="card-text">

Learn from anywhere in the world with our online classes.

</p>

Read More → Blue button.

</div>

</div>

</div>

<!-- Card 2: Hybrid -->

```

<div class="col-md">
  <div class="card bg-secondary text-light">
    <div class="card-body text-center">
      <div class="h1 mb-3">
        <i class="bi bi-person-square"></i> <!-- Person icon -->
      </div>
      <h3 class="card-title mb-3">Hybrid</h3>
      <p class="card-text">
        Blend of online and offline learning for maximum flexibility.
      </p>
      <a href="#" class="btn btn-dark">Read More</a>
    </div>
  </div>
</div>

```

```

<!-- Card 3: In Person -->
<div class="col-md">
  <div class="card bg-dark text-light">
    <div class="card-body text-center">
      <div class="h1 mb-3">
        <i class="bi bi-laptop"></i> <!-- Same laptop icon -->
      </div>
      <h3 class="card-title mb-3">In Person</h3>
      <p class="card-text">
        Attend physical sessions with trainers and peers.
      </p>
      <a href="#" class="btn btn-primary">Read More</a>
    </div>
  </div>
</div>

```

```

</div>
</div>
</section>

```

👉 Breakdown:

- **section.p-5** → Padding around the section.
- **container** → Centers content.
- **row.text-center** → Bootstrap row with text centered.

- `col-md` → Each column takes equal space on medium screens and above.
- `card bg-dark text-light` → Dark card with white text.
- `i.bi-laptop` → Bootstrap Icons (laptop icon).
- `btn btn-primary` → Blue button.

👉 Breakdown:

- `section.p-5` → Padding around the section.
- `container` → Centers content.
- `row.text-center` → Bootstrap row with text centered.
- `col-md` → Each column takes equal space on medium screens and above.
- `card bg-dark text-light` → Dark card with white text.
- `i.bi-laptop` → Bootstrap Icons (laptop icon).
- `btn btn-primary` → Blue button

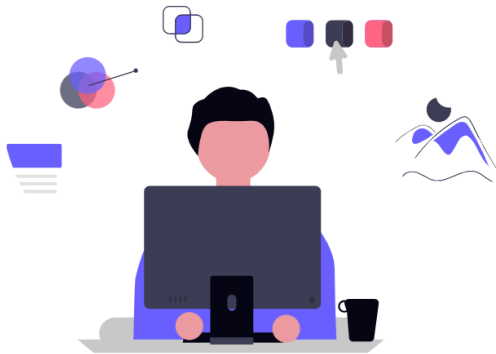


Step-8—learn fundamental section



Planings

- 📌 Left side = image (HTML, CSS, JS graphic)
- 📌 Right side = heading, text, button
- 📌 In one row (2 columns)



Learn The Fundamentals

Lorem ipsum dolor sit amet consectetur adipiscing elit. Sunt quidem error aliquam rem, nulla laboriosam?

Lorem ipsum dolor sit amet consectetur adipiscing elit. Quas ut, laudantium velit molestiae itaque provident repudiandae quod eligendi fugiat, facilis repellendus corrupti.

[> Read More](#)

<!-- Learn Fundamentals Section -->

<section class="p-5">

<div class="container">

<div class="row align-items-center justify-content-between">

<!-- Left side image -->

<div class="col-md">

</div>

<!-- Right side text -->

<div class="col-md p-5">

<h2>Learn The Fundamentals</h2>

<p class="lead">

Lorem ipsum dolor sit amet consectetur adipiscing elit.

Sunt quidem error aliquam rem, nulla laboriosam?

</p>

<p>

Lorem ipsum dolor sit amet consectetur adipiscing elit.

Quas ut, laudantium velit molestiae itaque provident

repudiandae quod eligendi fugiat, facilis repellendus corrupti.

</p>

<i class="bi bi-chevron-right"></i> Read More

</div>

</div>

</div>

</section>

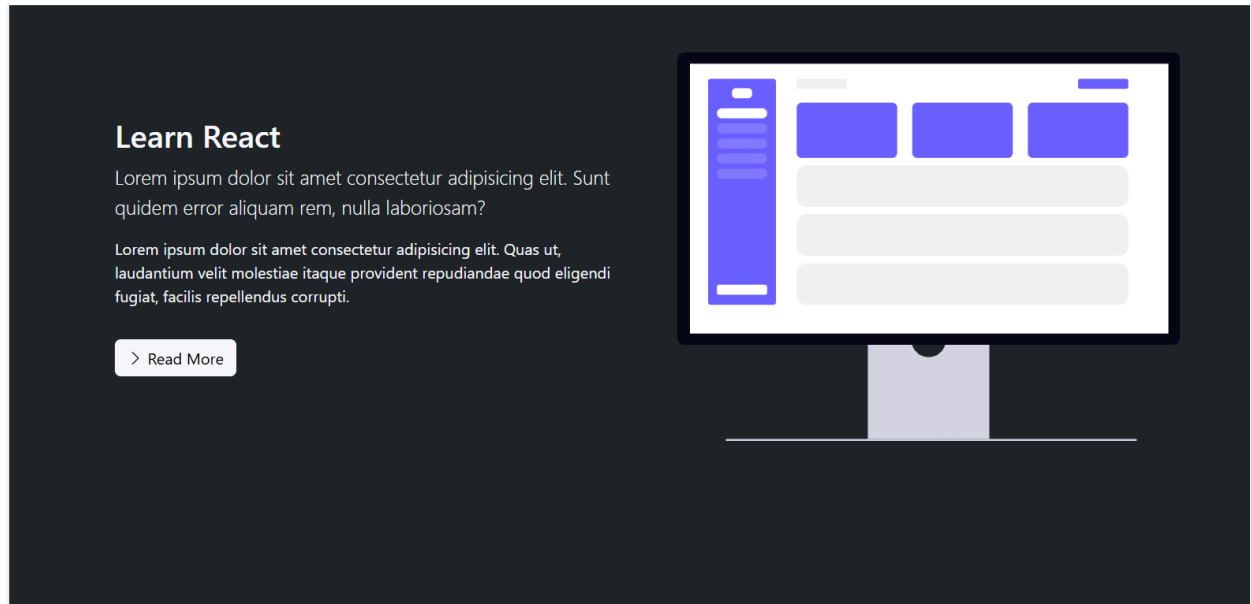


Step-9– Learn react section



Planings

- Dark background
- React logo/image on right side
- Text content on left side



<!-- Learn React Section -->

<section class="p-5 bg-dark text-light">

<div class="container">

<div class="row align-items-center justify-content-between">

<!-- Left side text -->

<div class="col-md p-5">

<h2>Learn React</h2>

<p class="lead">

Lorem ipsum dolor sit amet consectetur adipisicing elit.

Sunt quidem error aliquam rem, nulla laboriosam?

</p>

<p>

Lorem ipsum dolor sit amet consectetur adipisicing elit.

Quas ut, laudantium velit molestiae itaque provident

repudiandae quod eligendi fugiat, facilis repellendus corrupti.

```

</p>

<a href="#" class="btn btn-light mt-3">

  <i class="bi bi-chevron-right"></i> Read More

</a>

</div>

<!-- Right side image -->

<div class="col-md">

</div>

</div>

</div>

</section>

```



Step-9—Ask question section



Planning — FAQ Section

👉 Goal: Display a list of Frequently Asked Questions using Bootstrap's accordion component.

- User clicks a question → answer expands.
- Only one answer open at a time (because of data-bs-parent).

Frequently Asked Questions

Where exactly are you located?	▼
How much does it cost to attend?	▼
What do I need to know before joining?	▼
How do I sign up?	▼
Do you help me to find a job?	▼

<!-- Ask Question Section -->

<section class="p-5" id="questions">

<div class="container">

<h2 class="text-center mb-4">Frequently Asked Questions</h2>

<div class="accordion" id="faqAccordion">

<!-- 1. Where exactly are you located? -->

<div class="accordion-item mb-3">

<h2 class="accordion-header" id="headingOne">

<button class="accordion-button collapsed" type="button"

data-bs-toggle="collapse" data-bs-target="#collapseOne">

Where exactly are you located?

</button>

</h2>

<div id="collapseOne" class="accordion-collapse collapse"

data-bs-parent="#faqAccordion">

<div class="accordion-body">

We are located in the heart of the city, easily accessible by public transportation.

</div>

</div>

</div>

<!-- 2. How much does it cost to attend? -->

<div class="accordion-item mb-3">

<h2 class="accordion-header" id="headingTwo">

<button class="accordion-button collapsed" type="button"

data-bs-toggle="collapse" data-bs-target="#collapseTwo">

How much does it cost to attend?

</button>

```

    </h2>
    <div id="collapseTwo" class="accordion-collapse collapse"
data-bs-parent="#faqAccordion">
      <div class="accordion-body">
        The cost varies depending on the program. Contact us for detailed pricing.
      </div>
    </div>
  </div>

  <!-- 3. What do I need to know before joining? -->
  <div class="accordion-item mb-3">
    <h2 class="accordion-header" id="headingThree">
      <button class="accordion-button collapsed" type="button"
data-bs-toggle="collapse" data-bs-target="#collapseThree">
        What do I need to know before joining?
      </button>
    </h2>
    <div id="collapseThree" class="accordion-collapse collapse"
data-bs-parent="#faqAccordion">
      <div class="accordion-body">
        Basic computer knowledge is enough. We'll teach you everything from scratch.
      </div>
    </div>
  </div>

  <!-- 4. How do I sign up? -->
  <div class="accordion-item mb-3">
    <h2 class="accordion-header" id="headingFour">
      <button class="accordion-button collapsed" type="button"
data-bs-toggle="collapse" data-bs-target="#collapseFour">
        How do I sign up?
      </button>
    </h2>
    <div id="collapseFour" class="accordion-collapse collapse"
data-bs-parent="#faqAccordion">
      <div class="accordion-body">
        You can sign up on our website by filling out the registration form.
      </div>
    </div>
  </div>

  <!-- 5. Do you help me to find a job? -->
  <div class="accordion-item mb-3">

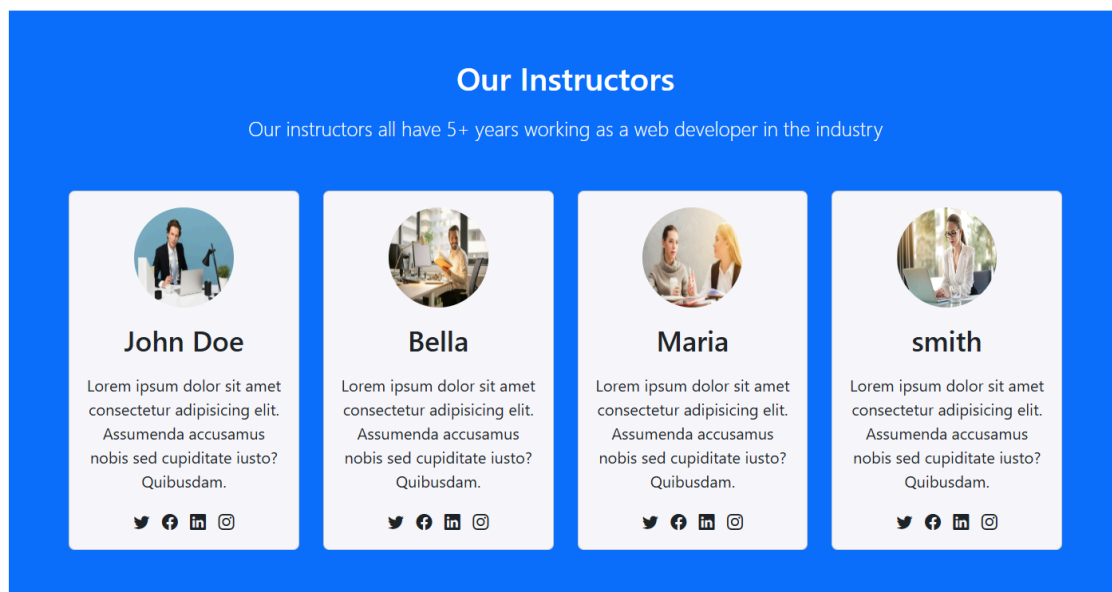
```

```

<h2 class="accordion-heb?
  </button>
</h2>
<div id="collapseFive" class="accordion-collapse collapse"
data-bs-parent="#faqAccordion">
  <div class="accordion-body">
    Yes! We provide career support and help you with job placement after completion.
  </div>
</div>
</div>
</div>
</section>

```

Step-10—Instructor-section



✓ → first download instructor 4 photos—change name according to —copy all 4 photos—and paste in image folder

✓ → add boot strap icon for facebook + twitter + instagram

Fix → add this line inside `<head>`:

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

<!-- Our Instructors Section -->

```
<section class="p-5 bg-primary text-white text-center">
```

```
<div class="container">
```

```
<h2 class="mb-3">Our Instructors</h2>
```

```
<p class="lead mb-5">
```

Our instructors all have 5+ years working as web developers in the industry.

```
</p>
```

```
<div class="row g-4">
```

```
<!-- Instructor 1 -->
```

```
<div class="col-md-6 col-lg-3">
```

```
<div class="card bg-light text-dark text-center">
```

```
<div class="card-body">
```

```

```

```
<!-- Use this instead if no local image -->
```

```
<!--  -->
```

```
<h3 class="card-title mb-3">John Doe</h3>
```

```
<p class="card-text">
```

Lorem ipsum dolor sit amet consectetur adipisicing elit. Assumenda accusamus nobis sed cupiditate iusto? Quibusdam.

```
</p>
```

```
<a href="#"><i class="bi bi-twitter text-dark mx-1"></i></a>
```

```
<a href="#"><i class="bi bi-facebook text-dark mx-1"></i></a>
```

```
<a href="#"><i class="bi bi-linkedin text-dark mx-1"></i></a>
```

```
<a href="#"><i class="bi bi-instagram text-dark mx-1"></i></a>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- Instructor 2 -->
```

```
<div class="col-md-6 col-lg-3">
```

```
<div class="card bg-light text-dark text-center">
```

```
<div class="card-body">
```

```

```

```
<h3 class="card-title mb-3">Bella</h3>
```

```
<p class="card-text">
```

Lorem ipsum dolor sit amet consectetur adipisicing elit. Assumenda accusamus nobis sed cupiditate iusto? Quibusdam.

```
</p>
```



```

    <a href="#"><i class="bi bi-twitter text-dark mx-1"></i></a>
    <a href="#"><i class="bi bi-facebook text-dark mx-1"></i></a>
    <a href="#"><i class="bi bi-linkedin text-dark mx-1"></i></a>
    <a href="#"><i class="bi bi-instagram text-dark mx-1"></i></a>
  </div>
</div>
</div>

```

<!-- Instructor 3 -->

```

<div class="col-md-6 col-lg-3">
  <div class="card bg-light text-dark text-center">
    <div class="card-body">
      
      <h3 class="card-title mb-3">Maria</h3>
      <p class="card-text">
        Lorem ipsum dolor sit amet consectetur adipisicing elit. Assumenda accusamus
nobis sed cupiditate iusto? Quibusdam.
      </p>
      <a href="#"><i class="bi bi-twitter text-dark mx-1"></i></a>
      <a href="#"><i class="bi bi-facebook text-dark mx-1"></i></a>
      <a href="#"><i class="bi bi-linkedin text-dark mx-1"></i></a>
      <a href="#"><i class="bi bi-instagram text-dark mx-1"></i></a>
    </div>
  </div>
</div>

```

<!-- Instructor 4 -->

```

<div class="col-md-6 col-lg-3">
  <div class="card bg-light text-dark text-center">
    <div class="card-body">
      
      <h3 class="card-title mb-3">Smith</h3>
      <p class="card-text">
        Lorem ipsum dolor sit amet consectetur adipisicing elit. Assumenda accusamus
nobis sed cupiditate iusto? Quibusdam.
      </p>
      <a href="#"><i class="bi bi-twitter text-dark mx-1"></i></a>
      <a href="#"><i class="bi bi-facebook text-dark mx-1"></i></a>
      <a href="#"><i class="bi bi-linkedin text-dark mx-1"></i></a>
      <a href="#"><i class="bi bi-instagram text-dark mx-1"></i></a>
    </div>
  </div>
</div>

```

</div>

</div>

</div>

</section>