**Training Day 7 Report** 

Date: 04 July 2025

S.T.E.P - Science & Technology Entrepreneurs' Park, GNDEC, Ludhiana

**Topic Covered:** Deep Dive into Bootstrap & Bootstrap-Based Project

Introduction

On the seventh day of MERN Stack training, we took a deep dive into Bootstrap, a powerful CSS

framework that makes building responsive, mobile-first web designs easier and faster. We explored

Bootstrap in detail, including layout systems, components, utilities, and customization, followed by a

hands-on project using only Bootstrap.

**Key Learnings** 

1. Understanding Bootstrap in Depth

• Explored the **grid system**: containers, rows, and columns with breakpoints.

• Learned about **responsive utilities** and how to hide/show content on different devices.

• Studied spacing classes: margin (.m-), padding (.p-), gap, etc.

• Applied text & background utility classes like .text-center, .text-muted, .bg-dark, .text-light.

2. Working with Bootstrap Components

• Learned to use pre-built components like:

Navbar

o Buttons

Cards

Alerts

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#### Modals

• Understood how to combine components with layout features for complete UI sections.

## 3. Customization and Responsiveness

- Practiced customizing components using utility classes.
- Used Bootstrap's responsive breakpoints (sm, md, lg, xl) to adapt content layout for different devices.

### **Hands-On Activities**

# **Practical Exploration**

- Built multiple layout structures using the grid system.
- Experimented with nested rows and offset columns.
- Styled content using Bootstrap's design tokens (colors, spacing, borders, shadows, etc.).

## **Bootstrap-Based Mini Project**

Created a responsive single-page website layout using only Bootstrap:

- Navigation Bar: Responsive navbar with toggler.
- **Hero Section**: Heading, subheading, and call-to-action button.
- **Features Section**: 3 responsive cards in a row.
- Contact Section: Simple form layout using .form-group.
- Footer: Minimal footer with alignment and spacing utilities.

## Task of the Day

- Objective: Build a complete webpage using Bootstrap only (no custom CSS).
- Task Steps:

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- Setup HTML and link Bootstrap via CDN.
- Use the grid layout for structure.
- o Implement Bootstrap components like navbar, cards, and footer.
- Result: Fully responsive and clean web layout designed with speed and efficiency using Bootstrap.

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