Training Day 6 Report

Date: 02 June 2025

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

Topic Covered: CSS Fundamentals and Introduction to Bootstrap

On Day 6 of the MERN Stack training, we explored advanced concepts of **CSS** and got introduced to

Bootstrap, a powerful front-end framework for building responsive websites quickly.

Key Concepts Covered

CSS Fundamentals (Continued)

- **CSS Selectors**

    - Element, ID (#id), Class (.class), Group, Descendant, Child

- **Box Model**

    - Content, Padding, Border, Margin

- **Positioning**

    - Static, Relative, Absolute, Fixed, Sticky

- **Display and Flexbox**

    - display: block, inline, inline-block, flex

- **Responsive Design Basics**

    - Media queries for mobile, tablet, and desktop responsiveness

Introduction to Bootstrap

- **What is Bootstrap?**

    - A free and open-source CSS framework for responsive and mobile-first websites

- **Why use Bootstrap?**

○ Speeds up development with ready-made components and utility classes

Core Bootstrap Features Introduced

- **Bootstrap Grid System**

  ○ Rows, Columns, and Containers (container, row, col)

- **Typography**

  ○ Headings, Paragraphs, Text alignment and coloring

- **Buttons & Alerts**

  ○ Different button styles and alert boxes using Bootstrap classes

- **Navigation**

  ○ Responsive navbars and menus

- **Utilities**

  ○ Margin & padding classes (e.g., m-3, p-2)

  ○ Background and text color utilities

Task of the Day

Each student was asked to:

- Design a **responsive webpage** using **Bootstrap**.

- The page included:

  ○ A **navbar**

  ○ A **hero section** with headings and a button

  ○ A **3-column layout** using the grid system

  ○ A styled **footer**