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Report
ND00CC68-3001 / Grotenfelt & Sharma

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How I used Bootstrap 5

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1. Introduction

This report describes how Bootstrap 5 was used to design and implement a single-page resume website. The website was created to present personal and professional information in a clear, responsive, and visually appealing way.

2. Bootstrap 5 components and examples used

Several Bootstrap 5 components were used in the website:

Navbar: A responsive navigation bar was used to allow users to move easily between sections of the single-page website. The navbar collapses into a toggle menu on smaller screens.

Cards: Cards were used in the About Me and Services sections to present information in a structured and visually consistent format.

Progress Bars: Progress bars were used in the Skills section to visually represent skill levels such as event planning and budget management.

Accordion: An accordion component was used in the Resume section to organize work experience. This allows users to expand and collapse individual job descriptions.

Form: A Bootstrap form was used in the Contact section, enabling users to send messages via email using a mailto action.

Badges: Badges were used to highlight tools and software skills.

Bootstrap Icons: Icons were used for social media links and email contact in the footer.

These components were selected because they improve usability and enhance visual clarity for a resumer webpage.

3. Layout structure using the grid system

The layout of the website was structured using Bootstrap's grid system. Each section is placed inside a container to ensure consistent spacing across different screen sizes. Content was organised using rows and columns (row, col-md-*) to create responsive layouts that adapt from mobile to desktop screens.

Flexbox utility classes such as d-flex and alignment utilities were also used to control spacing and positioning. Responsive breakpoints ensure that content stacks vertically on smaller devices while remaining side by side on larger screens.

4. Custom CSS

An external CSS file was used to complement Bootstrap's default styling. Custom CSS was applied to:

- Define a green colour theme using different shades of green.

- Apply Google Fonts (Poppins for headings and Roboto for body text).

- Adjust spacing between sections and prevent content from being hidden behind the fixed navigation bar.

- Style cards and footer icons for improved visual consistency.

The custom CSS enhances the appearance of the website without overriding Bootstrap's core layout or responsiveness.

5. Challenges and solutions

One challenge was linking a profile image hosted on Google Drive, as the default sharing link did not work in an image tag. This was solved by using a direct image link format or by placing the image locally in the project folder.

Another challenge was making the contact form functional without a backend. This was solved by using a mailto action, which opens the user's default email client and sends the form content via email.

Minor layout issues on smaller screens were resolved by adjusting column sizes and using Bootstrap's responsive classes.

6. Learning outcomes

Through this assignment, I learned how to:

- Build a responsive single-page website using Bootstrap 5.

- Combine multiple Bootstrap components effectively.

- Use the grid system and utility classes for responsive layouts.

- Apply external custom CSS without breaking Bootstrap's structure.

- Create a functional contact form without server-side programming.