PROJECT REPORT

On

# calculator – A RESPONSIVE WEB-BASED DASHBOARD USING HTML, CSS & JAVASCRIPT

SUBMITTED IN

PARTIAL FULFILMENT OF

##### BACHELOR OF COMPUTER APPLICATIONS (BCA)

**Submitted By :**

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**Roll No. –** 23/SCA/BCA/105

**Under The Supervision of :**

Dr. Raj Kumar

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**School of Computer Applications**

**Manav Rachna International Institute of Research and Studies**

**(DEEMED TO BE UNIVERSITY)**

Sector-43, Aravalli Hills

Faridabad – 121001

**June 2025**

# Declaration

I hereby declare that the project entitled “WEBTECH PORTAL – A RESPONSIVE WEB-BASED DASHBOARD” is my own work, carried out under the guidance of my mentor. This report is submitted in partial fulfillment for the award of the degree of Bachelor of Computer Applications (BCA) and has not been submitted to any other university or institution.

**SIGNATURE**

Name:

Roll No:

Date:

# Certificate from the Guide

This is to certify that the project report entitled “WebTech Portal – A Responsive Web-Based Dashboard” submitted in partial fulfillment of the degree of BACHELOR OF COMPUTER APPLICATIONS to Manav Rachna International Institute of Research and Studies is carried out by Mr. Preet (Roll No: 23/SCA/BCA/105), BCA 4th Semester (B Section) under my guidance.

**Signature of the Guide** Name:   
 Date:

# Acknowledgement

I gratefully acknowledge the assistance, cooperation, guidance, and clarification provided by **Dr. Raj Kumar,** my internship mentor at **Brotherhood Media**, during the development of the project **“ WebTech Portal – A Responsive Web-Based Dashboard.”** My extreme gratitude to **Dr. Raj Kumar, Associate Professor & TPO**, who guided us throughout the project. Without his willing disposition, spirit of accommodation, frankness, timely clarification, and above all, faith in us, this project could not have been completed in due time. His readiness to discuss all important matters at work deserves special mention and appreciation.

I would like to extend my sincere gratitude to **Prof. (Dr.) Suhail Javed Quraishi – Head of Department**, **Prof. (Dr.) Rashmi Agrawal – Associate Dean**, and **Prof. (Dr.) Brijesh Kumar – Dean** for their invaluable teachings, encouragement, and guidance throughout my academic journey. I also express my heartfelt thanks to all the **faculty members** of the department for their constant support, as well as to the **non-teaching staff** for their assistance during the project period.

This opportunity marks a significant milestone in my career development. I am committed to utilizing the skills and knowledge gained during this project to the best of my abilities and to continually improve upon them in pursuit of my career goals. I look forward to maintaining continued collaboration and learning in the future.

**Introduction**

This report details the work undertaken during my internship as a **Web Developer Intern** at **Brotherhood Media**, from **June 13, 2025, to July 11, 2025**. The internship provided a valuable opportunity to apply theoretical knowledge in a practical industry setting, contributing to real-world web development projects and gaining insights into professional workflows.

**Internship Objectives**

The primary objectives of this internship were to:

* Gain hands-on experience in modern web development technologies and frameworks.
* Contribute to ongoing web projects, enhancing existing features or developing new functionalities.
* Understand the software development lifecycle within a professional media organization.
* Improve problem-solving skills and learn best practices in code development and collaboration.
* Develop a deeper understanding of user experience (UX) and user interface (UI) principles in web design.

**Projects Undertaken**

**Project 1: WebTech Portal – Responsive Dashboard Development**

**Description**:  
Assisted in building a real-time front-end dashboard to visualize key performance metrics and interactive cards using HTML, CSS, JavaScript, and Chart.js.

**My Role & Responsibilities**:

* Designed and implemented responsive UI layouts using Flexbox and Grid.
* Integrated real-time data elements using JavaScript and Chart.js.
* Optimized visuals for cross-device compatibility and accessibility.
* Used Figma mockups as design references for front-end implementation.

**Technologies Used**:  
HTML, CSS, JavaScript, Chart.js, Figma, Git.

**Key Achievements/Learnings**:

* Learned to implement dynamic charts using Chart.js.
* Improved CSS layout and component styling skills.
* Understood the importance of visual hierarchy and color contrast in UI/UX.

**Project 2: Responsive Design Implementation**

**Description**:  
Optimized several landing pages to ensure consistent display and interaction on desktop, tablet, and mobile screens.

**My Role & Responsibilities**:

* Applied media queries for responsive breakpoints.
* Refactored inline and fixed-width styles to mobile-first fluid layouts.
* Conducted cross-browser testing and validation using browser dev tools.

**Technologies Used**:  
HTML, CSS, Media Queries, Tailwind CSS.

**Key Achievements/Learnings**:

* Enhanced understanding of mobile-first responsive design.
* Improved accessibility by following layout best practices.

**Project 3: CMS Theme Customization (if applicable)**

**Description**:  
Customized a WordPress-based CMS to support dynamic content rendering and branding requirements.

**My Role & Responsibilities**:

* Customized template files and created custom post types.
* Integrated brand-specific elements and tested UI behavior with various plugins.
* Debugged layout inconsistencies and plugin conflicts.

**Technologies Used**:  
WordPress, PHP, HTML, CSS, MySQL.

**Key Achievements/Learnings**:

* Gained experience in CMS architecture.
* Enhanced understanding of PHP templating and WordPress hierarchy.

**Skills Acquired/Enhanced**

* **Front-end Development**: HTML5, CSS3, Tailwind CSS, JavaScript (ES6+), Chart.js.
* **Back-end Development** (if applicable): Node.js, Express.
* **Version Control**: Git, GitHub.
* **Debugging & Testing**: Cross-browser testing, developer console usage.
* **Team Collaboration**: Participated in code reviews, worked in shared repositories.
* **UI/UX Design Principles**: Responsive design, accessibility, user-centered layout.
* **Professional Communication**: Reporting progress, discussing tasks in team meetings.

**Conclusion**

The internship at **Brotherhood Media** was an invaluable experience that provided me with practical exposure to the web development industry. I am grateful for the opportunity to work on meaningful projects, learn from experienced professionals, and contribute to the organization's goals. This experience has solidified my passion for web development and equipped me with essential skills and knowledge for my future career.

**Acknowledgements**

I would like to express my sincere gratitude to **Brotherhood Media** for providing this internship opportunity.  
Special thanks to my supervisor, **[Supervisor's Name]**, for their continuous support, mentorship, and guidance throughout the internship.