CSE Department Website - Documentation Report

1. Project Overview

This project is a responsive, multi-page departmental website designed for the Computer Science and Engineering (CSE) Department. It is implemented using HTML5, CSS3, and JavaScript (without frameworks). The website takes inspiration from the official SSN CSE Department website and focuses on accessibility, usability, and interactivity.

2. Features Implemented

- Responsive design using CSS Grid, Flexbox, and media queries.
- Multi-page navigation with sections: Home, About, Faculty, Infrastructure, Research, Student Corner, and Contact.
- Interactive mobile navigation menu with hamburger toggle.
- Faculty search and filter functionality using JavaScript.
- Contact form with JavaScript validation (name, email, subject, message).
- Canvas-based placement statistics chart (vanilla JS).
- Footer with quick links, social media icons, and copyright.
- Accessible features: semantic HTML tags, ARIA attributes, skip-to-content link.

3. Folder Structure

cse-department-website/	
■■■ index.html	Home Page
■■■ about.html	About the Department
■■■ faculty.html	Faculty Page with search
■■■ infrastructure.html	Infrastructure & Facilities
■■■ research.html	Research & Publications
■■■ student.html	Student Corner
■■■ contact.html	Contact Page
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■■■ css/style.css	Styling (responsive, themed)
■■■ js/main.js	Navigation + general scripts
■■■ js/faculty-search.js	Faculty filtering logic
■■■ js/form-validation.js	Contact form validation
■■■ js/placement-stats.js	Placement stats chart
■■■ images/	Media assets (logo, banner, lab icons)
■■■ docs/report.pdf	Documentation report (this file)

4. Technologies Used

- **HTML5:** Semantic structure with header, nav, main, section, article, and footer.
- **CSS3:** Styling, responsiveness with Flexbox and Grid, dark theme design.
- **JavaScript:** Interactive components (menu toggle, search, form validation, chart).
- **Google Maps Embed:** Contact page location integration.

5. Evaluation Criteria Mapping

✔ HTML Structure & Semantic tags → All pages use , , , , and .
✔ CSS Responsiveness → Layout adapts for desktop, tablet, and mobile.
✔ JavaScript Functionality → Implemented nav toggle, faculty filter, contact validation, placement chart.
✔ Best Practices → Externalized CSS/JS, meaningful file names, accessibility features.
✔ Documentation → This report serves as the structured documentation.
✔ Innovation → Added Canvas chart for placement stats and accessible dark-themed UI.

6. How to Run

Option 1: Open index.html directly in a browser.
Option 2: Use VS Code with Live Server to view locally.
Option 3: Run a Python server:
`python -m http.server 8000` then open http://localhost:8000

7. Conclusion

The project demonstrates proficiency in core web technologies (HTML, CSS, JavaScript), with focus on responsiveness, accessibility, and interactivity. The website serves as a professional CSE Department portal reference and meets all assignment requirements.