

**Department of Computer Science**

**Quaid-e-Azam University, Islamabad**

Assignment 2:

CS QAU website

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Submitted to  
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# Objective:

This project aims to redesign the website of the Computer Science Department at Quaid-i-Azam University (<https://cs.qau.edu.pk/>) to enhance its visual appeal, usability, and responsiveness across all screen sizes with a mobile-first approach. The redesign focuses on implementing modern layouts, a consistent color scheme, and intuitive navigation to improve the user experience. Using HTML5 and CSS3 technologies, the new design ensures accessibility, performance, and seamless responsiveness. The goal is to reflect the department's academic excellence through a clean, functional, and user-friendly website.

# Tools & Technologies:

* Html
* CSS
* Tailwind CSS

## HTML Techniques:

* Use of semantic tags like <nav>, <header>, <section>, and <footer> enhanced both the structure and accessibility of the website
* Clean and descriptive anchor tags (<a>) were used to facilitate smooth internal page navigation and linking

## Tailwind-Specific Techniques:

Responsive Design:

Tailwind’s responsive utility classes (e.g., md:, lg:, xl:) were used to build layouts that adapt seamlessly across mobile, tablet, and desktop.

Flexbox & Grid Utilities:

Implemented flex, grid, gap, items-center, justify-between, and responsive grid-cols classes to create complex yet clean layouts without writing custom CSS.

Typography:

Tailwind’s typography utilities (like text-xl, font-semibold, leading-relaxed) ensured consistent font sizing and spacing.

Animations & Transitions:

Interactive components used classes such as transition, duration-300, ease-in-out, hover:text-accent, hover:text-accent-dark, to enhance user interaction.

Dark Theme & Accent Colors:

I design consistency using a dark-themed layout with department-specific accent colors via utility classes like bg-accent-dark.

## CSS Techniques

Custom Scroll Effects:

Subtle scroll animations and transitions were added to highlight sections dynamically as the user explores the site.

# Features

## Home Page:

Serves as the landing interface for the website. Includes a clean and welcoming layout with animated elements for better engagement. Introduces the institution and highlights important sections using smooth transitions.

## Academics Section:

Displays detailed academic programs such as PhD, MPhil, MS, and BS. Organized using semantic HTML with descriptive headings and list structures. Each program includes eligibility, semester offerings, and external resource links.

## Admissions Interface:

Simple and clear admission form layout with validation-ready input fields and well-structured submission elements.

## Funded Projects Page:

Highlights major funded research and development initiatives. Presented using a grid layout for clarity and emphasis. Includes project titles, funding bodies, and brief descriptions.

## Research Overview:

Presents the department’s major research areas. Uses structured content blocks with icons or bullets to improve readability. Highlights interdisciplinary focus and impact.

## Faculty Directory:

Fully dynamic and responsive faculty section with structured cards including designations, research interests, email, and contact.

## Interactive Elements:

Scroll-to-top button, fixed navigation bar, and animated content loading in different sections enhance engagement.

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