1. Introduction:

• Purpose:
This project seeks to design a website that will consolidate information on different colleges and universities for easier access by users who seek to have key details about any educational institution without necessarily visiting their websites. The platform will provide information about college overviews, courses offered, admission criteria, scholarships, and campus facilities. This platform will also feature real-time updates on application deadlines and career opportunities within academic institutions.

• Scope:
This website will provide information on well-established universities and emerging colleges, but with a particular focus on technology-related institutions. This information will be tailored to help students at the undergraduate level understand the courses, programs, and career opportunities that each institution offers. It will also contain sections on scholarships, admission processes, research opportunities, real-time academic news, and recent developments in the education sector.

• Stack Description:
The app will involve HTML, CSS, JavaScript, and a backend framework like Django or Node.js. The information will be held in a SQL-based database.

2. Overall Description:

• Requirement of this Web Application:

o The website should be user-friendly, responsive, and optimized for desktop and mobile.
o It must provide users with detailed information on various colleges, universities, and available academic programs.
o A search feature should be included that would allow users to quickly identify institutions and their details.
o Material should be refreshed regularly to include recent news, courses, and opportunities that reflect educational trends.
o A scholarships section should provide details about available funding opportunities for students.

• Module Description:

o College Profile: Displays the college overview, mission, courses, infrastructure, and key faculty members.
o Admission Information: Lists admission criteria, eligibility requirements, and application deadlines.
o Recent News: Keeps updated information about the institution, including new programs, collaborations, and research breakthroughs.

o Scholarships: Highlights available scholarships, eligibility criteria, and application procedures.
o Career & Research Opportunities: Provides guidance on research internships, teaching assistantships, and career prospects for graduates.

• Sub-Modules Description:

o College Overview: Mission and Vision, founder details, leadership team, and core academic disciplines.
o Courses & Programs: Undergraduate and postgraduate courses, specialized programs, and certification options.
o Admission Process: Application deadlines, eligibility requirements, entrance exams, and selection criteria.
o Scholarships: Government and private scholarship options, application guidelines, and benefits.
o Research & Career Paths: Opportunities in academia, industry collaborations, and research funding.

3. Functional Requirements:

• Software Requirements:

o Operating System: Windows, macOS, or Linux
o Frontend Technologies: HTML5, CSS, JavaScript
o Backend Technologies: Node.js
o Development Tools: Visual Studio

• Hardware Requirements:

o Processor: Intel i5 or higher
o RAM: 8 GB or higher
o Disk Space: 50 GB
o Network: High-speed internet connection for hosting

4. Table Description and Data Flow Diagram:

• Table Description:

o Colleges: College Name, Established Year, Dean, Courses Offered, Location, Accreditation.
o Admissions: College Name, Course, Eligibility Criteria, Application Process, Important Dates.
o Courses: Course Name, College Name, Duration, Subjects Covered.
o Scholarships: Name, Eligibility, Funding Source, Application Link.
o News: Title, Date, Content, Related Institution.

• Data Flow Diagram:

o Level 0: Shows the overall flow of data from users interacting with the website to retrieving and displaying data from the backend database.
o Level 1: Describes how the user interacts with specific modules such as College Profiles, Admission Information, Scholarships, and Research Opportunities.

5. Non-Functional Requirements

• Performance:

o The website should load in 5 seconds for an average internet connection.
o All media content must be optimized to ensure minimal impact on load times.

• Security:

o Admin panel with authentication.

• Compatibility:

o The website must be responsive and compatible with devices of varying screen sizes, including Mobile phones, Tablets, and Desktops.
o The website should be compatible with popular operating systems such as Windows, macOS, Android, and iOS.

6. Other Requirements:

• Content Updates:

o Content must be updated every 3 months.
o Application deadlines and admission information should be updated in real-time or as per institutional changes.

• Deployment Requirements:

o To ensure scalability and availability, the website should be deployed on a reliable hosting platform (e.g., AWS, Google Cloud, or Azure).

• Documentation:

o Maintain version-controlled documentation to reflect any updates or changes in the system.

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