

Project Requirements:

Functional Requirements:

Homepage:

- Display featured courses for easy access.
- Ensure straightforward navigation to other sections (Courses, About, Contact).

Course Pages:

- Includes video lectures for each course.
- Provides downloadable lecture notes.
- Offers practical coding samples and exercises.

About Page:

- Present information on the purpose and mission of the website.
- Include details about the team or organization behind the initiative.

Contact Page:

- Implement a user-friendly form for inquiries and feedback.
- Display contact details, including email addresses and relevant social media links.

Non-Functional Requirements:

Performance:

- Ensuring fast loading times for all pages.
- Optimizing media files, particularly videos, for seamless streaming.

Reliability:

- Guarantee high availability with minimal downtime.
- Implementing a regular backup system for course materials and user data.

Security:

- Adhering to secure coding practices.
- Conduct regular security audits to identify and address vulnerabilities.

Scalability:

- Designing the website infrastructure to accommodate potential increases in user traffic.
- Choose a hosting solution that allows for scalability.

Usability:

- Creating a clean and intuitive user interface for an enhanced user experience.
- Optimizing the website for various devices, including desktops, tablets, and mobile phones.

Compatibility:

- Ensuring cross-browser compatibility for major browsers.
- Designing the website to be compatible with different screen sizes and resolutions.

Accessibility:

- Designing the website to be accessible to users with disabilities, in compliance with WCAG standards.

Data Management:

- Implementing efficient storage and retrieval mechanisms for course materials.
- Ensuring compliance with data privacy regulations.

Rating Mechanism:

- Including a user-friendly feedback form for reporting issues or suggesting improvements.
- Regularly reviewing and addressing user feedback for continuous improvement.