



جامعة النجاح الوطنية

An-Najah National University

كلية الهندسة | Faculty of Engineering

وحدة الجودة والاعتماد - مركز ABET

Quality and Accreditation Unit - ABET Center



Project Title: Interactive HTML Learning Application for Web and Mobile

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This project is important because it provides an interactive and structured platform for learning HTML, a fundamental language for web development. It addresses the need for accessible, engaging, and practical learning tools for students and beginners in programming. By combining lessons, code practice, quizzes, and real-time feedback, the application helps learners build practical skills efficiently, which are essential for modern web development careers.

The project should cover the following key aspects:

- Interactive HTML lessons with structured content.
- An integrated code editor for hands-on practice.
- Quizzes and practical projects to test understanding.
- User management system with admin control.
- Multi-language support (Arabic and English) and light/dark mode.
- Communication system through chat and real-time notifications.
- Compatibility with both web and mobile platforms.

The main objectives of this project are:

- To provide an interactive and user-friendly platform for learning HTML.
- To allow learners to practice coding in a safe, integrated environment.
- To support real-time communication and feedback between students and Supervisors.
- To track user progress and provide motivational elements like badges and achievements.
- To ensure accessibility through multi-language support and responsive design for web and mobile devices.

The application will be developed using a modern full-stack approach:

Front-End Web: React.js, HTML, CSS, JavaScript.

Front-End Mobile: React Native.

Back-End: Node.js with Express.js.

Database: MySQL for storing user data, lessons, and projects.

Tailwind CSS will be used for UI design, and JWT for user authentication.



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The development process will follow a modular approach: designing UI, implementing front-end and back-end components, integrating APIs, testing each module, and finally deploying the application for web and mobile platforms.

No, but there are similar applications available today, such as W3Schools. However, this project differs by combining web and mobile support, real-time chat, admin control, multi-language options, notifications, and dark/light mode in a single integrated platform, making it more interactive and customizable for local users.