

ABSTRACT

The certification registration process for aircraft maintenance technicians at the Aircraft Maintenance Training Organization (AMTO) was previously conducted manually through the WhatsApp application, resulting in several inefficiencies such as delayed document verification, data input errors, and high administrative workload. This Final Project aims to develop a front-end-based website that automates the entire certification administration process digitally. The website is designed with key features including an online registration form with real-time validation, a drag-and-drop document upload system with file preview, a centralized administrator dashboard for data verification, and integrated automated email notifications using PHPMailer. The development process involves requirement analysis, interface design using Figma, coding with HTML, CSS3, JavaScript, PHP, and MySQL within the Visual Studio Code environment, functional testing using XAMPP, and server management with CyberPanel. The Bootstrap framework is implemented to ensure a responsive and user-friendly interface. Additionally, the system successfully reduced the registration processing and improved data accuracy. Through this digitalization effort, AMTO has significantly enhanced its operational efficiency and user experience in the certification process.

Keywords: Online registration, AMTO, Aircraft technician certification, Administrative automation, Front-end development, User experience