

# Automated Framework for Generating Scalable Web Application

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**Abstract:** The rapid growth of digital services has increased the need for highly scalable, maintainable, and performance-driven web applications. Traditional development processes often require extensive manual coding, repetitive tasks, and significant effort to integrate backend, frontend, and deployment components. These challenges slow down development cycles and increase the chances of human errors. The framework integrates automation at every critical stage, including requirement interpretation, template generation, API construction, database modeling, UI generation, and deployment configuration. The proposed system uses rule-based logic and modular architecture to automatically assemble essential components of a web application.

**Keywords:** Automated Framework, Scalable Web Application, Web Application Generator, Software Automation, Modular Architecture, Cloud Deployment, Microservices, Code Generation, Template Engine, API Automation, Database Modeling, Load Balancing, Distributed Systems, Web Engineering