

## **ABSTRACT**

### **FRONT-END WEB-BASED VOLUNTEER MANAGEMENT SYSTEM AT BPBD LAMPUNG USING REACT JS**

**By**

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BPBD Lampung Province has a crucial role in disaster management, which needs volunteers to do their job. However, the Volunteer management at BPBD Lampung is still running conventionally, which inefficient in managing data, monitoring activity, and communication between volunteers. This research's goals is to develop the front-end web based Volunteer Management System (VMS) to support BPBD Lampung in disaster management so the process would be more effective and efficient. The system used ReactJS as framework and Rapid Application Development (RAD) method, RAD Method consist 4 phases that is, Requirements Planning, User Design, Construction, and Cutover. Data were collected through observation, interviews, and literature studies to identify system requirements and user needs. The system has several main features including volunteer activity management, task monitoring, reporting, agenda scheduling, budget tracking, and team coordination. The system tested with Functional Testing, System Usability Scale (SUS), and User Experience Questionnaire (UEQ) to test functionality, usability, and user experience. The front-end web based VMS is expected to improve effectivity and efficiency in volunteer management at BPBD Lampung Province and support disaster management.

**Keywords:** Volunteer Management System, Front-End Development, ReactJS, Rapid Application Development, BPBD Lampung