

Certification System Documentation

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Overview – Certification Management System

This documentation outlines the architecture, setup, and features of the Certification Management System — an integrated Laravel + Flutter solution for managing, issuing, and verifying academic or professional certificates.

Tech Stack

Laravel (Backend):

- Version: Laravel 11, PHP 8.2+
- UI: Dashtrap Tailwind Template
- Auth: Laravel Breeze
- CRUD: `awais-vteams/laravel-crud-generator`
- API: Public & internal
- Notifications: Firebase Cloud Messaging (FCM)

Flutter (Mobile App):

- Framework: Flutter 3+
- Language: Dart
- Editor: Android Studio
- Platform: Android
- Notifications: Firebase Cloud Messaging

Use Cases

- Admin tracks all certificate records across Moodle instances.
- Students verify their certificate via mobile or web.
- Push notifications are triggered when new certificates are issued.