

## **PixelFed Project Structure**

The federated photo sharing platform. A robust Laravel application that leverages the full power of the PHP ecosystem to build a decentralized, media-centric social network.

Updated 2025-12-30

#pixelfed #laravel #php #vuejs #activitypub #federation #social-network ☑ PNG PDF ☐ Copy </> Prompt Repository Info **♦** Project Directory 口 K N Repository - pixelfed/pixelfed pixelfed/ **Stars** - 10k+

∨ □ app/ Laravel Applica... ☐ Models/ Domain entities Services/ Business & Fedi... ☐ **Jobs/** Async pipelines ☐ Http/ Controllers & M... ∨ □ resources/ Frontend Assets ☐ assets/js/components/ Vue.js componen... views/ Blade templates routes/ API & Web route... database/migrations/ Schema definiti... composer.json package.json

Backend - Laravel 12 (PHP 8.4+) Frontend - Vue.js + Blade Database - PostgreSQL / MySQL Cache/Queue - Redis + Horizon **Protocol** - ActivityPub **Media** - FFmpeg integration

## Architecture Notes

**License** - AGPL-3.0

Last Analyzed - December 2025

PixelFed is a 'Service-Oriented Monolith' built on \*\*Laravel\*\*. It makes heavy use of Laravel's built-in features like \*\*Jobs\*\* and \*\*Queues\*\* to handle complex, multi-step processes (Pipelines) for image optimization and ActivityPub delivery. The codebase is organized into specialized services within app/Services/, ensuring that the core logic for the Fediverse remains decoupled from the HTTP layer.

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app/Services/ - The brain of PixelFed. Contains specialized logic for ActivityPub delivery, Webfinger lookups, and image processing.

app/Jobs/ - Handles background processing. PixelFed uses a 'Pipeline' pattern where one job can trigger a sequence of actions (e.g., Optimize Image  $\rightarrow$  Create Post  $\rightarrow$  Broadcast to Followers).

**resources/assets/js/** - The home of the modern, interactive frontend. Built with Vue.js, these components handle the SPA-like features of the web interface.

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PixelFed is one of the most sophisticated Laravel applications in the opensource world. It demonstrates how to build a high-performance, federated application using modern PHP patterns.