

My Projects

A collection of full-stack applications, digital solutions, and design projects that demonstrate my technical expertise and problem-solving abilities.

Internship Project

Oct 2024 - Mar 2025

Real-Time Thesis Title Selection System

Built a comprehensive full-stack system using Laravel 12, Livewire 3, WebSockets, and MySQL to improve transparency and efficiency in the thesis title selection process at IMERI FKUI. The system features real-time updates, automated notifications, and conflict prevention mechanisms.

Key Features

- 1
- Real-time countdown timer for selection periods with WebSocket integration
- 2
- Live activity log system tracking all user actions and changes
- 3
- Admin dashboard for monitoring and management with analytics
- 4
- Conflict prevention system for title assignments and duplicates
- 5
- Automated email notifications for selection updates and deadlines

TECH STACK

Laravel 12

Livewire 3

WebSockets

MySQL

Tailwind CSS

✓ Impact: Enhanced transparency and eliminated manual conflicts in academic processes



Capstone Project

2025

POS Application with QR Code Integration

Modern Point of Sale application designed to streamline retail operations for small businesses. Features auto-generated product codes with QR scanning, comprehensive cash management, real-time transaction logging, and role-based access control.

Key Features

- Auto-generated product codes with QR scanning capability
- Cash management system with opening and closing balance tracking
- Real-time transaction logs and receipt printing (DOMPDF)
- Role-based access control (Cashier vs Manager roles)
- Discount management system with promotional features
- Transaction history and comprehensive reporting dashboard

TECH STACK

Laravel 11

Livewire 3

Jetstream

MySQL

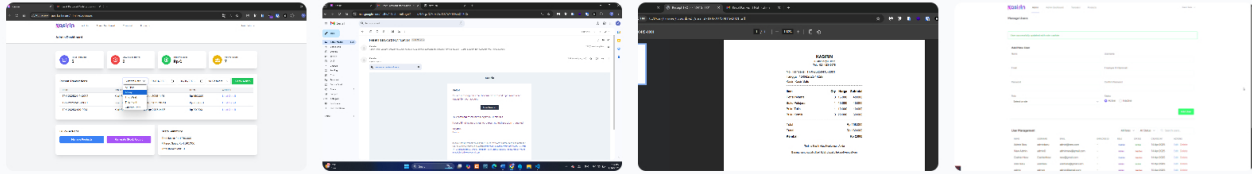
Tailwind CSS

DOMPDF

Vite

✓ Impact: Streamlined retail operations and improved cash flow management

✓ Impact: Reduced checkout time by 40% and eliminated manual entry errors



Internship Project 2024-2025

Company Profile Website (IMERI FKUI)

Designed and developed a fully responsive company profile website for the Center of e-Learning IMERI FKUI using WordPress and Figma. The website serves as a centralized hub for workshop announcements, online courses, research updates, and event information.

Key Features

- Centralized workshop announcements and registration system
- Online course listings with detailed descriptions
- Research updates section for faculty publications
- Event calendar integration with Google Calendar
- Mobile-responsive design optimized for all devices

TECH STACK

WordPress Figma Custom Plugins Responsive Design

✓ Impact: Improved institutional visibility and engagement for 500+ users



FAQ

Frequently Asked Questions

Academic Project SMKN 40 Jakarta

QR Code Attendance Application

Real-time attendance tracking system with secure QR code validation for educational institutions. Features dynamic QR code generation, instant attendance recording, and comprehensive reporting dashboard for teachers and administrators.

TECH STACK

PHP MySQL QR Code Library JavaScript

QR Scan

Dashboard

FemmeSight UI/UX Design

Designed comprehensive mockups and interactive prototypes for FemmeSight, an assistive mobile application aimed at helping visually impaired women. The project focused on accessibility, intuitive navigation, and inclusive design principles to create an empowering user experience.

Design Process

- User research and accessibility requirements analysis
- Low-fidelity wireframing and user flow mapping
- High-fidelity mockups with accessibility features
- Interactive prototyping with voice navigation
- Usability testing and iterative improvements

TOOLS USED

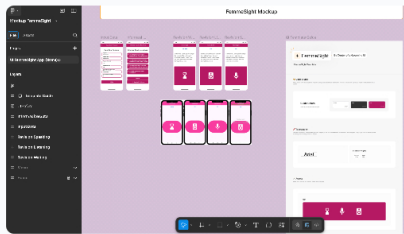
Figma

Wireframing

Prototyping

Accessibility Design

✓ Impact: Created inclusive design solution for assistive technology



has been the industry's standard
dummy text ever since



Muhammad Ghiffari

Full-Stack Developer specializing in Laravel, React.js, and digital solutions.

● Available for Opportunities

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