

PORTOFOLIO | ROKAN SUBHI FARADIANSYAH

FULLSTACK DEV

ROKAN SUBHI FARADIANSYAH

Bandung, jawa Barat
0895365168786
rokansubhi.f@gmail.com
FaradiansyahRokan(github)
Faradiansyah Rokan(LinkedIn)

EDUCATION-

- SMK IDNBS BOGOR, Software Developer
- UNIV TELKOM BANDUNG, S1 Informatika (current)

EXPERIENCE-

- Fullstack & DevOps Engineer(intern), Yayasan Bina Insan Taqwa
- SCRATCH Trainer, IDNBS(IDN IT CAMP BATCH 2)
- MicroBit Trainer, IDNBS(IDN IT CAMP BATCH 2)
- UI/UX Trainer – Al Ashr Bina Mandiri (2023)
- 3rd Winner of National Coding Competition(AL-HAZEN ACADEMY)

TECHNICAL CAPABILITIES-

FRONTEND DEV.

- HTML, CSS, JS, PHP, Dart, Kotlin
- Mobile/Web Responsive Design
- UI/UX
- React
- Lowcoder

BACKEND & DATABASE

- MySQL, phpMyAdmin,
- Query Optimization
- Stored Procedures
- PHP
- Laravel
- Python
- nodeJS
- nestJS

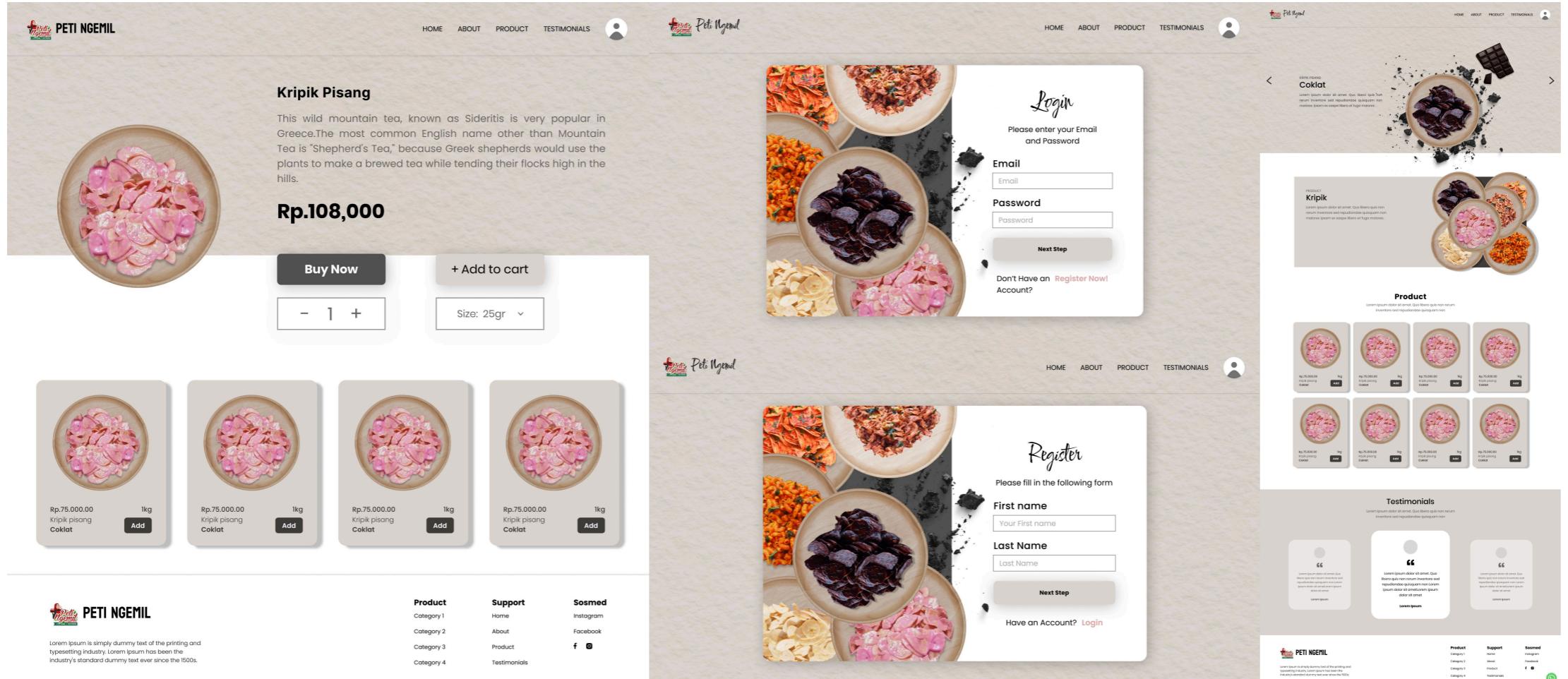
PROGRAMMING LANGUAGE

- Python (scripting, automation, basic ML workflows)
- HTML, CSS, JS, PHP (Frontend/Website Development)
- Solidity (smart contract & Blockchain fundamental)
- SQL (complex queries, database management)
-

CLOUD & DEVOPS

- Linux(Ubuntu)
- Docker
- Virtualization (KVM)
- Port Forwarding
- Firewall Configuration

WORKS



PETI NGEMIL

Peti Ngemil is an e-commerce web platform built to support local MSME food vendors by providing them a digital storefront – for free. Designed and developed as a team project, it includes complete features for users and admins, making it a powerful, real-world solution for small business digitization.

KEY FEATURES

1. Product listing & shopping cart
2. Role-based access (admin & customer)
3. Admin dashboard for product & order management
4. Integrated checkout with Midtrans payment gateway
5. Shipping cost calculator via RajaOngkir API
6. Printable receipt with itemized pricing + shipping

TECH STACK

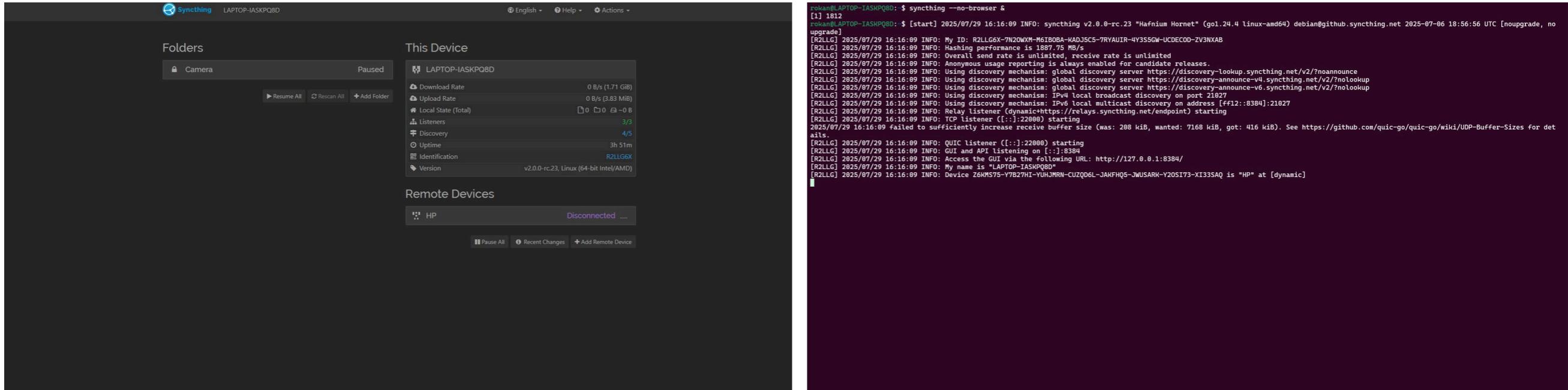
1. Frontend: Blade, TailwindCSS
2. Backend: Node.js, MySQL, Laravel
3. Third-Party APIs: Midtrans, RajaOngkir
4. Authentication: JWT with role guard
5. Deployment: Vercel

github repo

SKILLS DEMONSTRATED

1. Full-Stack E-Commerce Development
2. API Integration (Shipping & Payments)
3. Role-based Access Control (RBAC)
4. UX for Admin & Buyer Flows
5. Payment Security & Transaction Flow
6. Team Collaboration & Real-world Application

WORKS



Distributed File Sync System for Schools

This project implements a real-time, peer-to-peer file synchronization system for a school environment (covering elementary, junior high, and administration divisions). Built using Syncthing and Docker, the system allows all school computers to share and access documents like a shared cloud — but fully offline, within the local network.

KEY FEATURES

1. Real-time document sync across all devices
2. No internet required (fully local network)
3. Easy deployment via Docker containers
4. Improves collaboration and access between departments

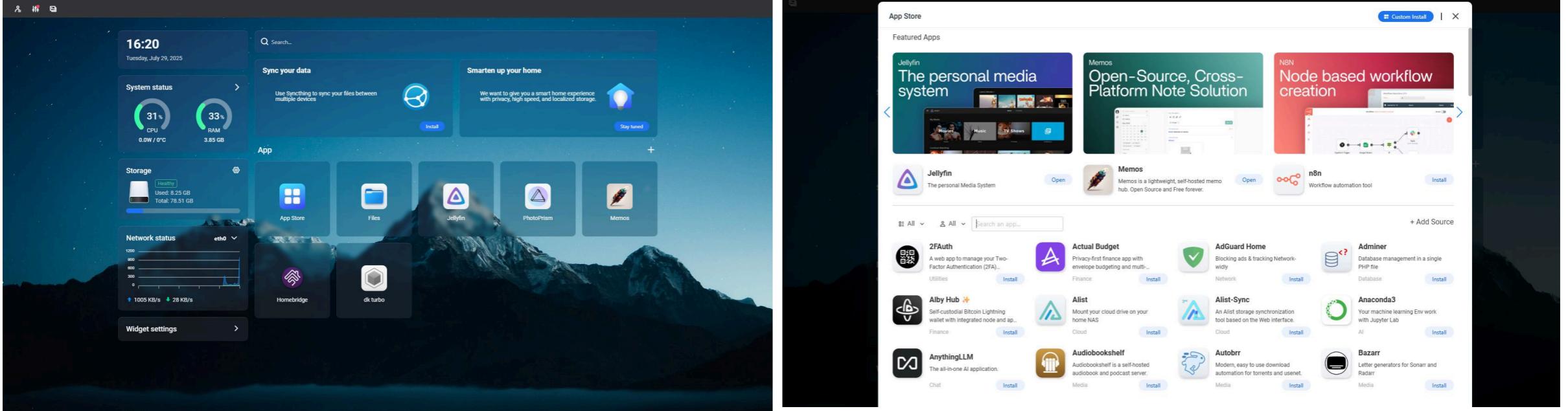
TECH STACK

1. Syncthing (P2P file sync engine)
2. Docker (Containerization for ease of deployment)
3. Tailscale For secure access across locations
4. HTTP server (web UI exposure)

SKILLS DEMONSTRATED

1. Networked system architecture
2. Local file sharing infrastructure
3. Dockerization and container orchestration
4. Problem-solving in constrained environments (offline-first)
5. System design for education & collaboration

WORKS



Self-Hosted NAS System for School with Docker, Portainer & ZimaOS

A centralized file storage system (NAS) designed for school environments (SD, SMP, and administration), enabling all computers to access shared files via local network. The system leverages Docker for modularity, Portainer for visual container management, and ZimaOS for lightweight, container-based NAS operations.

KEY FEATURES

1. Centralized file access over LAN
2. Web-based file manager and sharing tools
3. Backup, permission management, and file versioning
4. Admin-friendly UI via Portainer
5. Lightweight performance using ZimaOS

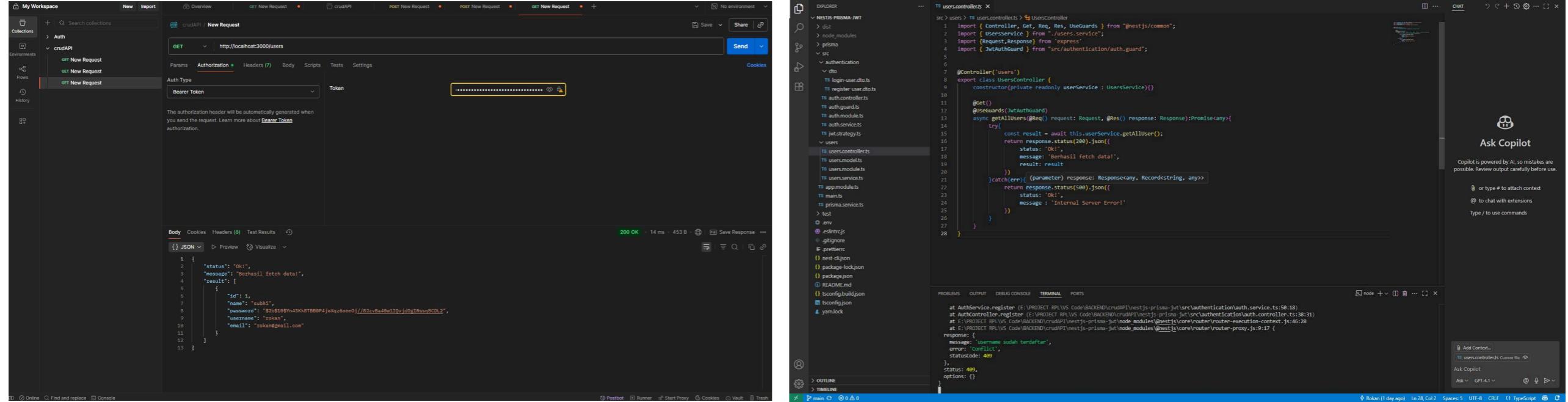
TECH STACK

1. Docker & Docker Compose
2. ZimaOS (Container-first NAS OS)
3. Portainer (Container GUI)
4. HTTP file access
5. Local Network Configuration

SKILLS DEMONSTRATED

1. Infrastructure Design & Deployment
2. Docker-based Server Administration
3. System Optimization for Resource-Limited Environments
4. Real-world Problem Solving in Educational Settings
5. UI/UX Design for Admin Tools

WORKS



nestjs RESTful API

This project is a secure and scalable RESTful API built with NestJS, using PostgreSQL as the database and Prisma ORM for data access. Authentication is implemented using JWT tokens, and the API supports full CRUD functionality for managing user and resource data.

KEY FEATURES

1. Full CRUD operations (Create, Read, Update, Delete)
2. User authentication with JWT
3. Role-based access control (optional)
4. PostgreSQL database with Prisma ORM
5. Clean modular architecture using NestJS

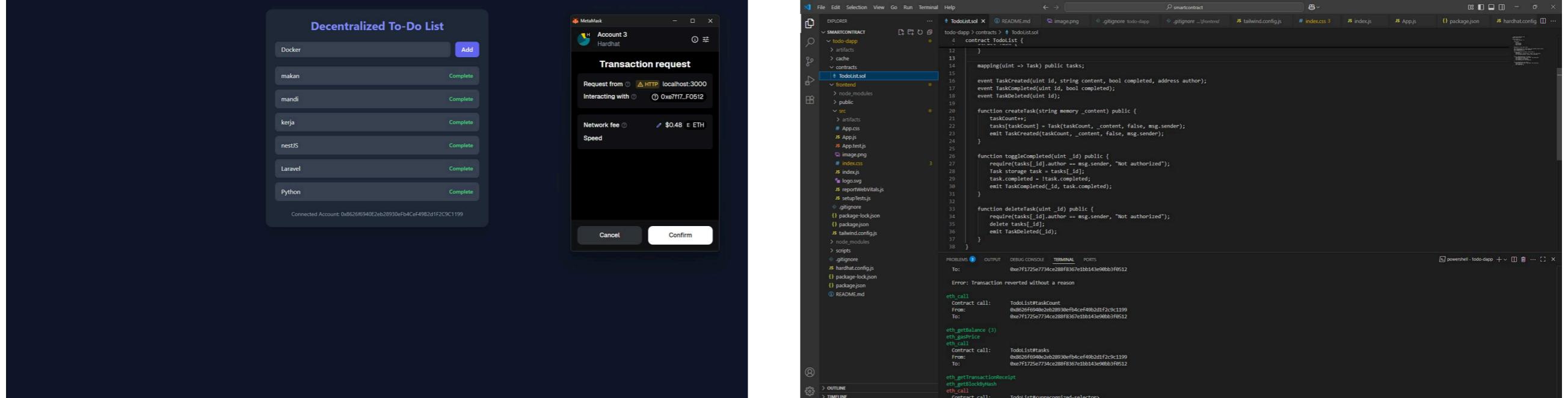
TECH STACK

1. NestJS (Node.js framework)
2. PostgreSQL (Relational database)
3. Prisma (Type-safe ORM)
4. JWT (Authentication & Authorization)
5. Dotenv for config management

SKILLS DEMONSTRATED

1. RESTful API development
2. Secure authentication & session handling
3. Database modeling with Prisma
4. Modular backend architecture
5. Environment configuration & best practices

WORKS



Decentralized To-Do List

This is a fully decentralized To-Do List application built using Web3 technologies. The frontend is developed with React and styled using Tailwind CSS, while the backend logic runs on a Solidity smart contract deployed to a local Ethereum network using Hardhat. Users can create and manage tasks that are stored entirely on the blockchain. Wallet authentication is handled through MetaMask, ensuring secure and user-specific task management.

KEY FEATURES

1. Add new tasks tied to the wallet address
2. Fetch and display tasks from the smart contract
3. Delete tasks securely (only by task creator)
4. MetaMask integration for user authentication and transaction signing
5. Responsive and elegant user interface
6. Blockchain data persistence (survives page reloads, not server resets)

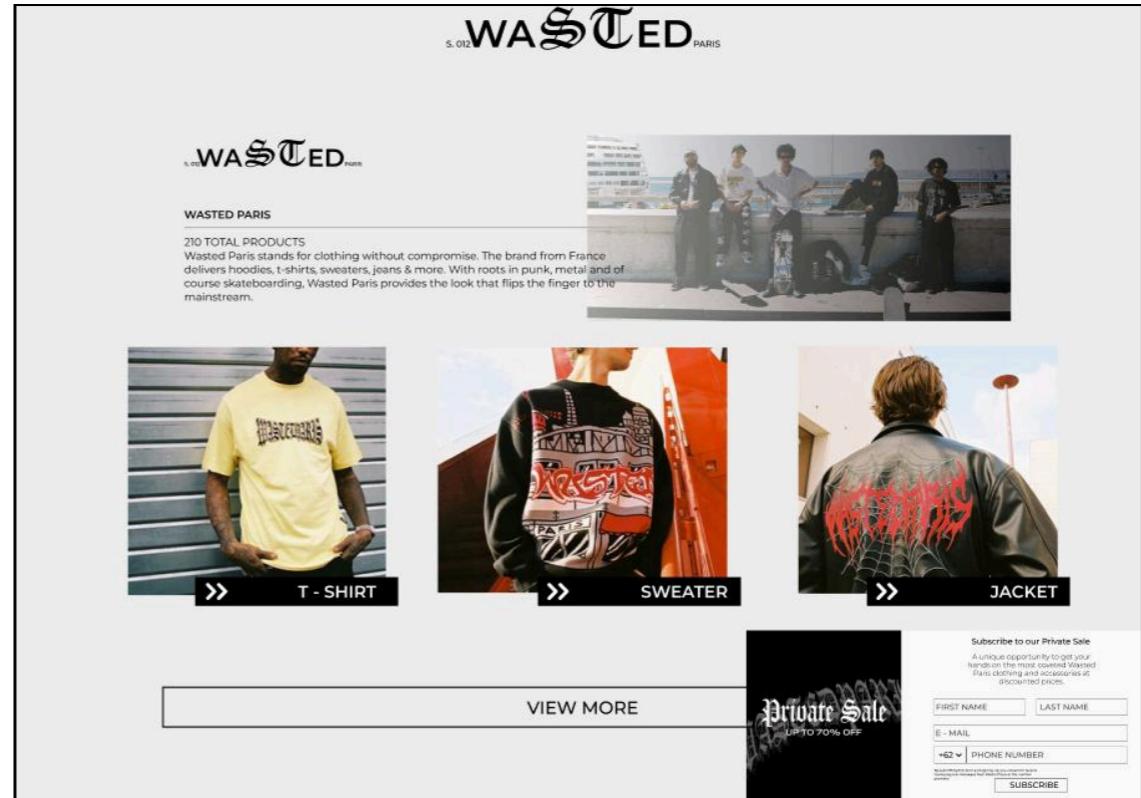
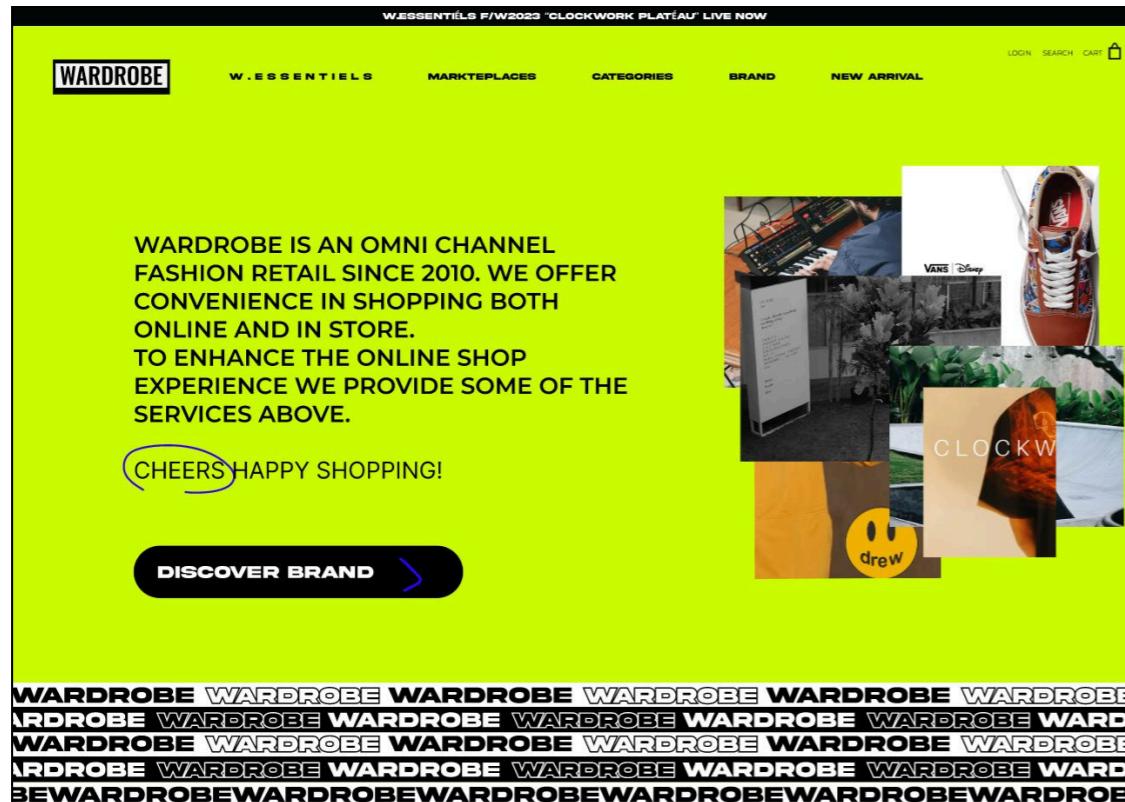
TECH STACK

1. Frontend: React.js, Tailwind CSS, Ethers.js
2. Smart Contract: Solidity
3. Development Tools: Hardhat, MetaMask
4. Blockchain: Local Ethereum (Hardhat node)

SKILLS DEMONSTRATED

1. Building DApps with Hardhat and React
2. Integrating Ethereum blockchain with frontend using Ethers.js
3. Handling blockchain transactions through MetaMask
4. Structuring clean and reusable frontend code with React components
5. Styling interfaces using utility-first Tailwind CSS
6. Managing blockchain-related state and async functions in React

WORKS



WARDROBE

WARDROBE is an omni-channel fashion marketplace that focuses on curated selections of local and indie brands. The platform provides a seamless shopping experience both online and offline, empowering local fashion businesses by giving them digital exposure.

KEY FEATURES

1. Multi-brand product catalog
2. Store locator & offline integration
3. Modern e-commerce UI/UX
4. Responsive design for all devices
5. Support for curated brand onboarding

TECH STACK

1. ReactJS(Frontend)
2. Node.js(Backend)
3. MongoDB
4. Midtrans (Payment Integration)
5. AWS

SKILLS DEMONSTRATED

1. Marketplace Development
2. UX for Multi-Brand Shopping
3. Brand Curation System Design
4. Frontend Performance & SEO
5. Integration with Offline Retail Channels

WORKS

plantique

WORKS PRODUCTS PATTERNS EXHIBITIONS ABOUT CONTACT en

PLANTIQUE

developer creative studio

16.07.45

Founded by Rokan Naufal Dzikra,
from Indonesia.

S E T K O T N I L A P J A N G

WEB DEVELOPMENT PRODUCT MANAGEMENT PUBLIC SPEAKING UI/UX DESIGN SHARING EXPERTS STUDENT TEACHING LEADERSHIP INTERVIEWS BUSINESS DIGITAL MARKETING NETWORK ENGINEERING



PLANTIQUE

Plantique is a creative studio concept that merges art, web design, development, and lifestyle. Originally built as a web service hub for my team, the site delivers a visually engaging and responsive experience. Featuring dynamic animations with GSAP and JavaScript, Plantique showcases our aesthetic and technical direction.

KEY FEATURES

1. Interactive UI with GSAP-powered transitions
2. Fully responsive layout for mobile and desktop
3. Creative visual direction for modern web audiences

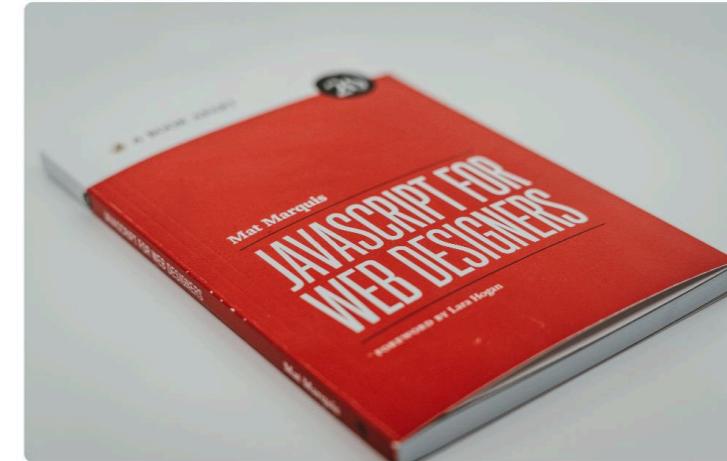
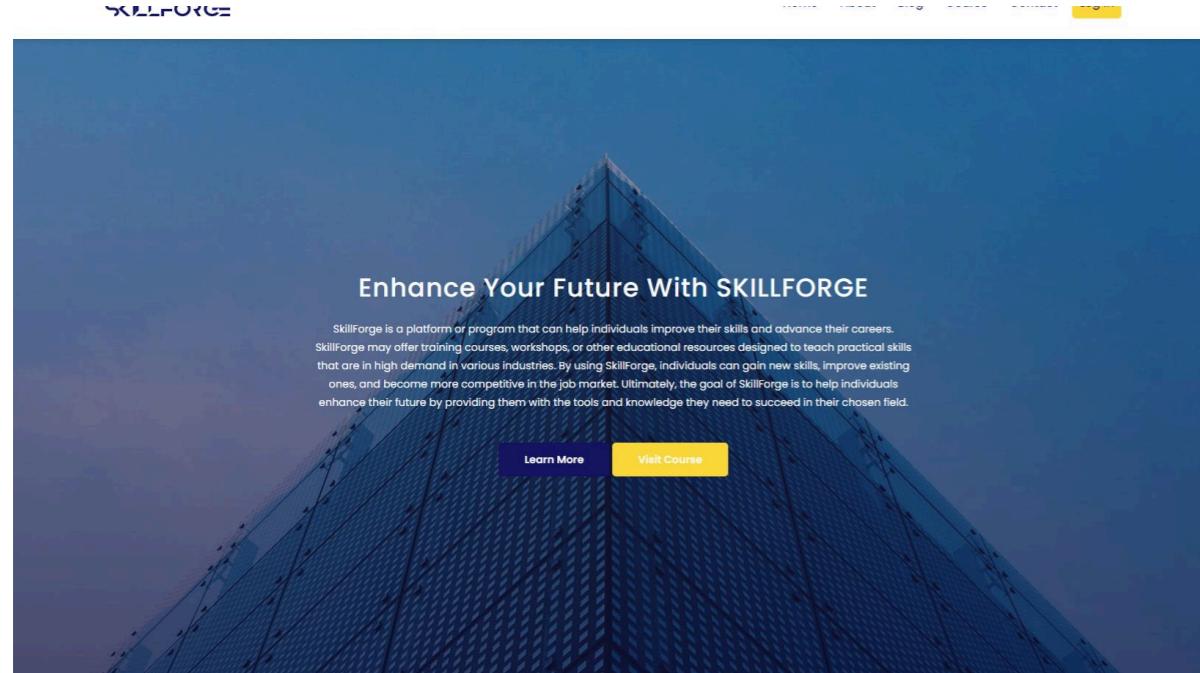
TECH STACK

1. HTML5, CSS3, JavaScript
2. GSAP (GreenSock Animation Platform)
3. NPM for module management
4. GitHub Pages

SKILLS DEMONSTRATED

1. Frontend Animation & Motion Design
2. Responsive Web Design
3. Creative Direction & Branding
4. UI/UX Implementation with Modern Tools

WORKS



SKILLFORGE

SkillForge is an educational platform designed to help individuals learn in-demand skills through online courses. It includes a website, course management system, and network integration. Built during a competitive event, SkillForge led our team to achieve 3rd place.

TECH STACK

1. Laravel 10
2. Bootstrap & CSS Vanilla
3. Bootstrap UI
4. MySQL
5. Blade
- 6.

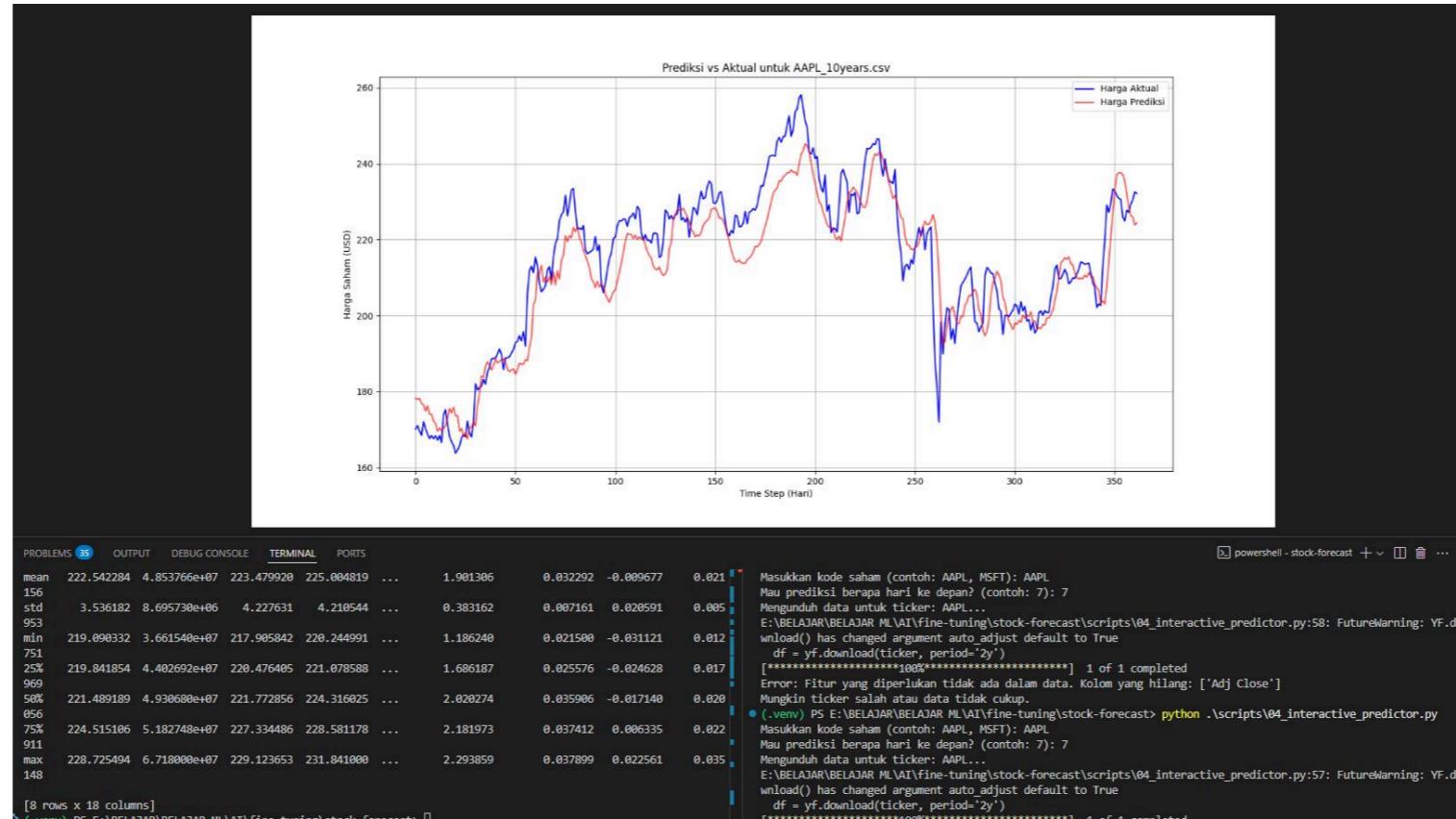
SKILL DEMONSTRATED

1. FrontEnd
2. Backend
3. UI/UX
4. Responsive layout & grid system
5. Form handling & validation

GITHUB REPO

1. [Link](#)

WORKS



Stock Forecast

Stock Price Prediction with Advanced Techniques is a machine learning project that builds and trains predictive models to forecast future stock prices. Unlike simple linear regression models, this project leverages sophisticated artificial neural network architectures, specifically Bidirectional LSTM with CNN layers, to analyze historical data and identify complex patterns that are not visible to the human eye.

TECH STACK

- 1. Python
- 2. Pandas , Pandas TA
- 3. Pytorch
- 4. Scikit-learn
- 5. Numpy
- 6. Matplotlib

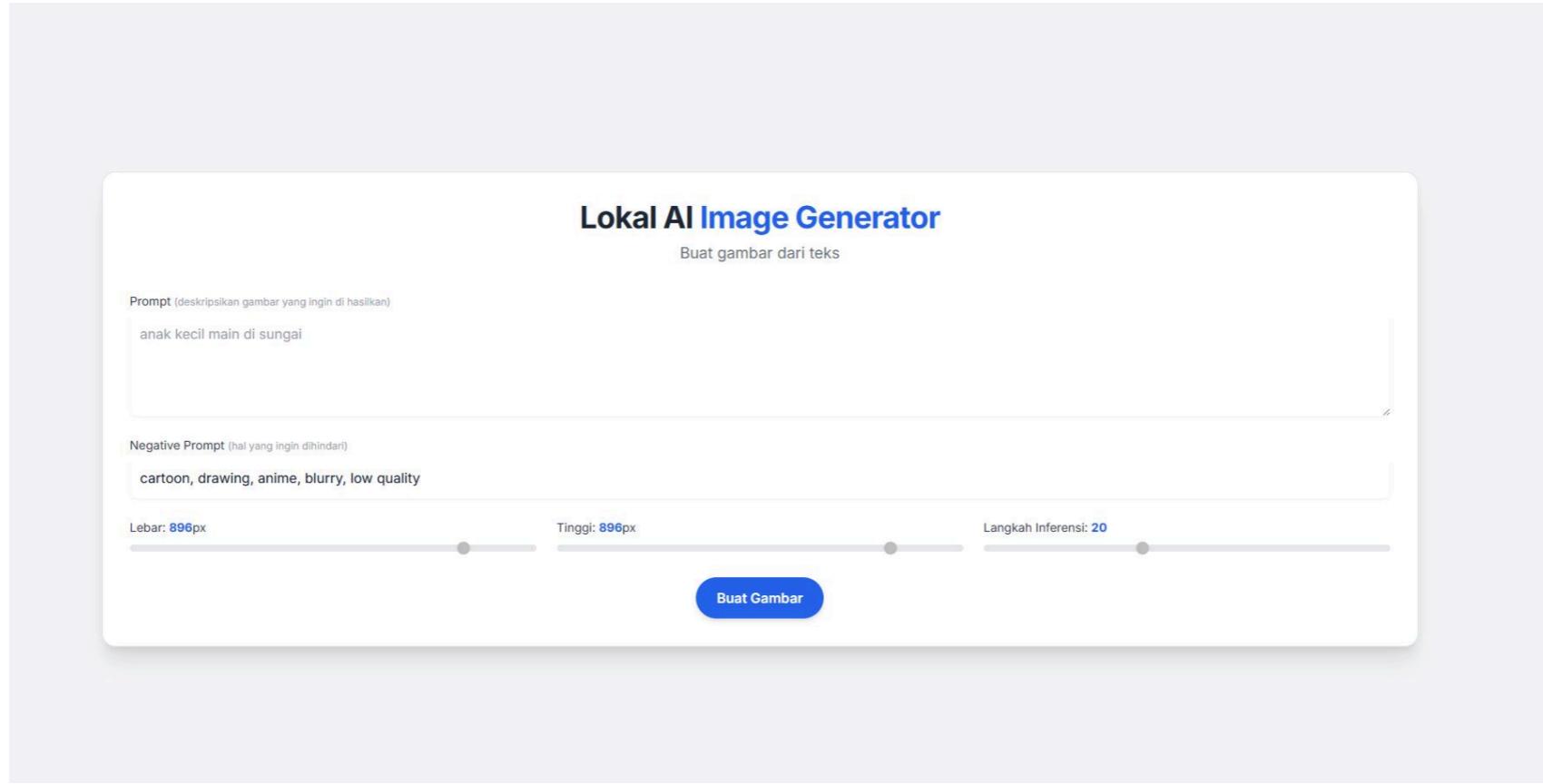
SKILL DEMONSTRATED

- 1. Deep Learning
- 2. Feature Engineering
- 3. Pipeline Management
- 4. Model Optimization
- 5. MSE , MAE

KEY FEATURES

- 1. Advanced Model
- 2. Technical Indicator Integration
- 3. Robust Data Pipeline
- 4. Optimized Training
- 5. Results Visualization

WORKS



Text2Image

Local AI Image Generator is a full-stack web application that serves as a user-friendly interface for a locally hosted text-to-image AI model. Leveraging the power of the Stable Diffusion XL model, this project allows users to generate high-quality images directly on their own machine, without relying on external cloud services.

TECH STACK

- 1. Python
- 2. FastAPI
- 3. Pytorch
- 4. Diffusers
- 5. Pydantic

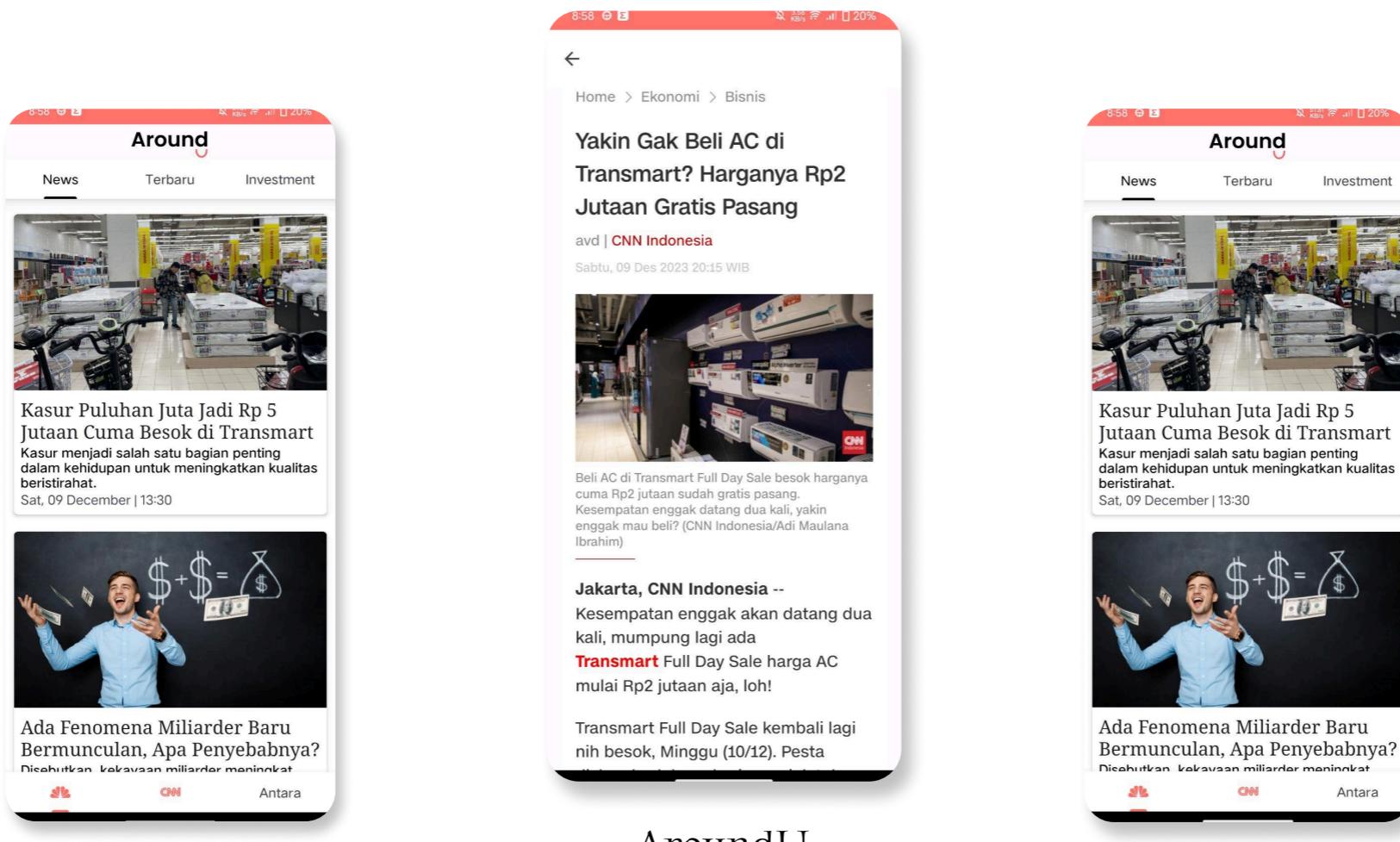
SKILL DEMONSTRATED

- 1. Deep Learning Model Deployment
- 2. API Development
- 3. GPU Optimization
- 4. Full-Stack Development
- 5. Frontend Integration
- 6. Project Structure

KEY FEATURES

- 1. Local AI Inference
- 2. Intuitive Web Interface
- 3. High-Performance API Backend
- 4. Optimized Performance

WORKS



AroundU

AroundU is a modern Android app developed in Kotlin that fetches and displays the latest news from local Indonesian sources using the NewsAPI. The app provides an intuitive user experience with RecyclerView for listing articles and a bottom navigation bar for smooth page transitions like Home, Categories, and Settings.

KEY FEATURES

1. Real-time news fetching with NewsAPI
2. RecyclerView for efficient list rendering
3. Bottom Navigation Bar for multi-page UI
4. Responsive layout & clean MVVM structure
5. Built with Android Studio and Kotlin

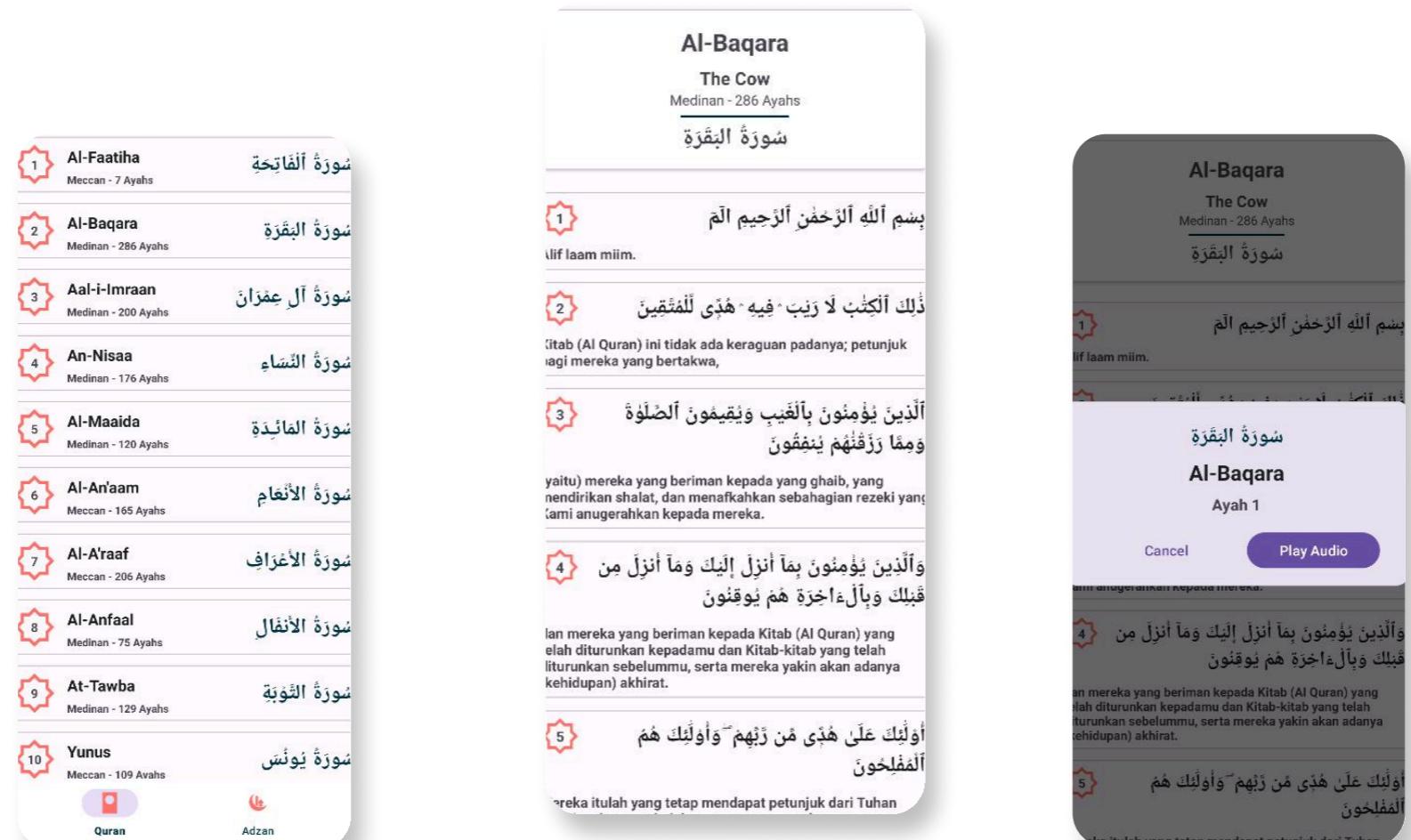
TECH STACK

1. Kotlin, Android SDK
2. Retrofit (for API calls)
3. RecyclerView, ViewModel, LiveData
4. Material Components & Navigation Component
5. NewsAPI.org

SKILLS DEMONSTRATED

1. Android App Development with Kotlin
2. API integration and async handling
3. UI design with RecyclerView & Navigation
4. Clean Architecture & Lifecycle Awareness
5. Localization & user experience for Indonesian users

WORKS



QuranKu

Quranku is a modern Android application developed with Kotlin, designed to provide users with the full Al-Qur'an and enriched interactive features. Users can select verses or full surahs to be recited aloud (tilawah), choose from multiple reciters (syeikh), and view real-time adzan times based on their location.

KEY FEATURES

1. Full 114 surahs with verse-by-verse selection
2. Multiple reciters (Syeikh Mishary, Abdul Basit, etc.)
3. Audio playback per ayah or per surah
4. Daily prayer (adzan) schedule with local time sync
5. Modern UI with Material Design
6. Lightweight and fully offline-ready (with optional audio download)

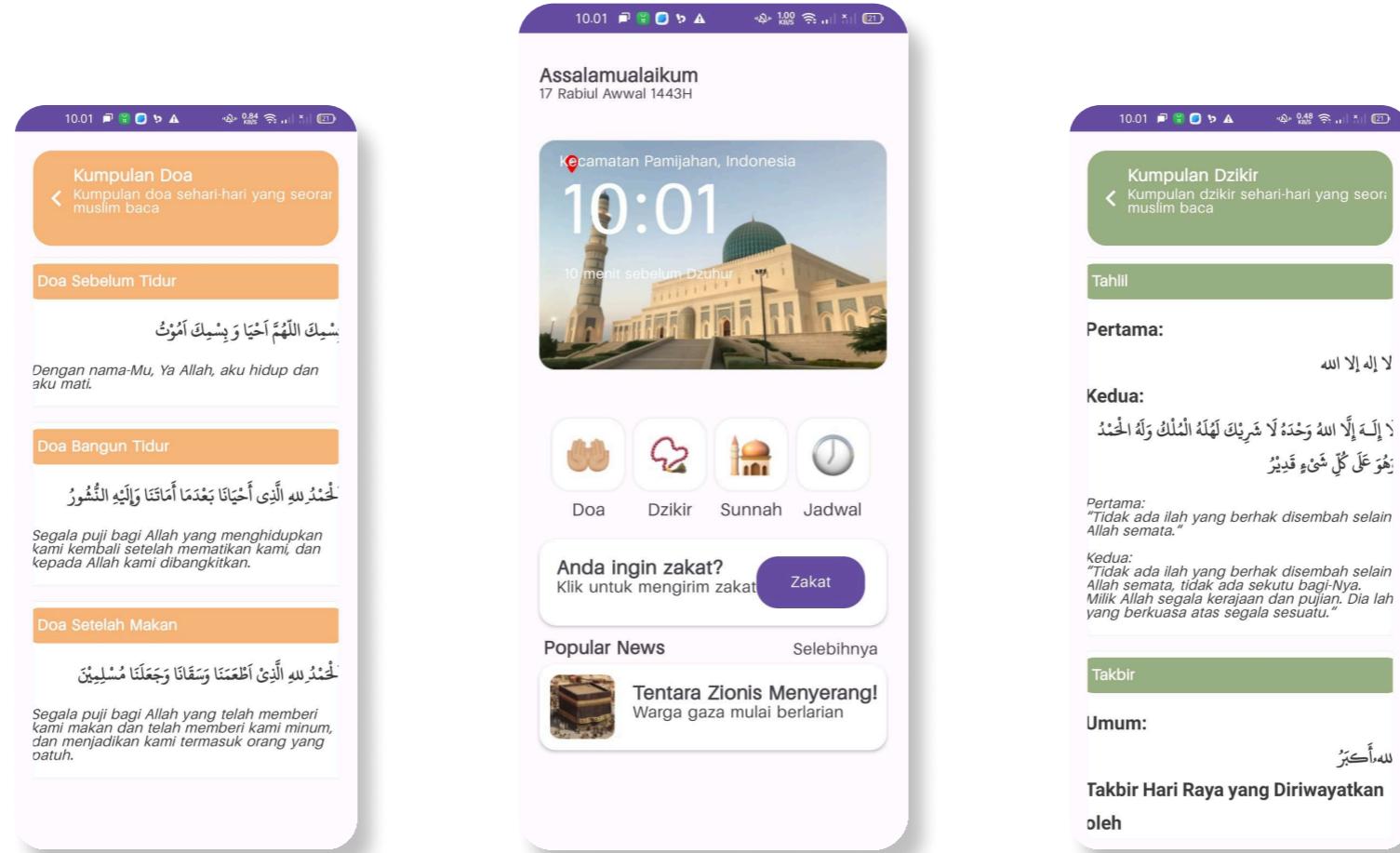
TECH STACK

1. Kotlin, Android Jetpack (ViewModel, LiveData)
2. RecyclerView, Navigation Component
3. MediaPlayer API for audio
4. Retrofit for API integration (Quran & Prayer Times)

SKILLS DEMONSTRATED

1. Android development in Kotlin
2. Audio streaming and media control
3. User interaction per ayah/surah
4. API integration (e.g., Al-Qur'an & Adzan API)
5. UX design for Islamic apps
6. Localization and user personalization

WORKS



DzikrKu

Dzikirku is a comprehensive Islamic Android app developed in Kotlin that combines daily dzikir and prayer collections with real-time adzan schedule and curated Islamic news. Built to support Muslims in their daily worship and spiritual routine, it offers a clean and responsive interface with intuitive features.

KEY FEATURES

1. Dzikir harian pagi dan petang
2. Kumpulan doa-doa sesuai kategori (perjalanan, kesehatan, dll.)
3. Jadwal adzan harian berdasarkan lokasi pengguna
4. Islamic news feed from trusted sources
5. Reminder/notification for prayer times

TECH STACK

1. Kotlin, Android Jetpack (ViewModel, LiveData)
2. RecyclerView, Navigation Component
3. Retrofit (for news & prayer time API)
4. Local database for offline doa access
5. Firebase

SKILLS DEMONSTRATED

1. Android development in Kotlin
2. Local and remote data integration
3. Background scheduling and notification system
4. UI/UX design for Islamic-focused apps
5. Localization and accessibility

CERTIFICATION

Memulai Dasar Pemrograman untuk Menjadi Pengembang Software : [Link](#)

Modernize Infrastructure and Applications with Google Cloud : [Link](#)

DevOps 101: What is DevOps? : [Link](#)

Belajar Dasar Pemrograman JavaScript : [Link](#)

Belajar Dasar Pemrograman Web : [Link](#)

Memulai Pemrograman dengan Kotlin : [Link](#)

Memulai Pemrograman Dengan Java : [Link](#)

Get Started with Figma : [Link](#)

EF SET English Certificate (C2 Proficient) : [Link](#)

Fortinet Network Security Expert Level 1: Certified Associate: [Link](#)

Fortinet Network Security Expert Level 2: Certified Associate: [Link](#)

APA KATA MEREKA?

"Rokan tuh orang yang cepat belajar hal baru. dan saya sadar hal ini terlihat jelas ketika ia berani mencoba hal-hal yang tidak banyak orang lain berani coba. Di saat teman-temannya enggan menjajaki dunia cloud, Rokan justru tertarik dan mulai belajar. Saat yang lain ragu mencoba Docker, Rokan mengambil inisiatif untuk mempelajarinya. Dari sinilah saya tahu bahwa Rokan adalah pribadi yang suka tantangan, tidak takut mencoba hal baru, dan memiliki kemampuan belajar yang sangat baik."

– Haridi Ilman T. (Mentor & Senior Fullstack Developer, YBIT)

"Saya mengenal Rokan sebagai murid yang memiliki semangat belajar tinggi dan rasa ingin tahu yang besar. Saat saya mengajarinya coding, ia tidak hanya cepat memahami materi, tapi juga menunjukkan ketertarikan yang mendalam terhadap dunia pemrograman. Kini, saya bangga melihat bagaimana Rokan terus berkembang, menjelajahi berbagai teknologi backend dan Web3 dengan tekun. Ia adalah sosok yang berani mencoba, tidak cepat puas, dan selalu ingin naik level."

– Muhammad Rival (Guru SMK & Fullstack Developer)

“Awalnya aku kira ini cuma proyek biasa yang penting jalan aja, yaudah aku iya-iya aja waktu itu. Tapi pas dengerin presentasi dari Rokan dan timnya, jujur aku jadi ikut semangat sendiri. Mereka punya visi yang jelas dan bener-bener niat ngebangun aplikasinya, itu bikin aku ikut yakin juga.

Sekarang setelah aplikasi Peti Ngemil jalan dan udah kupakai cukup lama, aku bisa bilang ini bener-bener ngebantu. Uang masuk dan keluar jadi lebih terpantau, fitur keranjangnya juga praktis banget, dan ada grafik yang bantu aku ngerti alur pengeluaran sama pemasukan. Pokoknya super kebantu banget! Makasih banyak buat Rokan dan tim, sukses terus kalian!”

– Najmi Amellia (Kripik Seller & Client Peti Ngemil)

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