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# Geovanno Ardy Wicaksana

*Project Portfolio*

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# Introduction

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## About me

Robotics and technology enthusiast with a vocational diploma in Mechatronics Engineering, currently pursuing an Applied Bachelor's Degree in Software Engineering Technology at Politeknik Negeri Batam (GPA: 3.9). Experienced in mechanical design, electrical systems, programming, and IoT integration through multiple project-based learning initiatives. Skilled in troubleshooting and full-stack development, capable of creating complete systems from requirement analysis to frontend and backend implementation, with a solid understanding of both technical and functional aspects of software and hardware.

## Specialization :

- Technical Skills: Mechatronics, Programming Languages, IoT, Web Development
  - Soft Skills: Problem Solving, Leadership, Teamwork, Adaptability, Good Ethics
  - Languages: Indonesia, English, Javanese
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# h!academy Online Learning Management System



Project Duration: 4 Month (On-going)

Project Details:

- Web-based Learning Management System (LMS) designed to deliver structured digital learning experiences.
- Structured relational database built with Laravel and MySQL to manage users, courses, modules, enrollments, and learning records.
- Multi-role access control system (student, teacher, staff, admin) ensuring secure and organized platform management.
- Course and module management features supporting structured content organization and material distribution.
- Student learning features including course enrollment, progress tracking, and access to learning materials.
- Invoice and receipt generation functionality for administrative documentation and reporting.
- Responsive and engaging user interface built with Tailwind CSS and Vanilla JavaScript, ensuring seamless frontend–backend integration.

The image displays four overlapping screenshots of the h!academy LMS interface. The top-left screenshot shows a user dashboard for 'Alex' with a welcome message, progress indicators (5 enrolled programs, 12 completed tasks), and 'My Badges'. The top-right screenshot shows a 'My Reports' section for 'Kindergarten 1' with monthly and weekly reports, and a 'Lesson Material' section for 'At The Farm' with a lesson plan and material preview. The bottom-left screenshot shows the 'Manage Programs' section with a search bar, filters, and a list of programs like 'Pre-Nursery', 'Nursery', and 'Kindergarten'. The bottom-right screenshot shows an 'Invoice List' table with columns for Invoice #, Customer, Amount, Invoice Date, and Actions, and a 'Receipt List' section below it.

Invoice #	Customer	Amount	Invoice Date	Actions
INV20260001	Taylor Swift taylor@gmail.com	Rp 13.150.000	14 Jan 2026	[View] [Edit] [Download] [Delete]
INV20260002	Alex Kruger alexkruger@gmail.com	Rp 500.000	16 Jan 2026	[View] [Edit] [Download] [Delete]
INV20260003	asdsada geoi@h!academy.id	Rp 7.100.000	05 Feb 2026	[View] [Edit] [Download] [Delete]

# h!academy Company Profile Website



Project Duration: 1 Month



Project Details:

- Developed a responsive company profile website for h!academy using Tailwind CSS and Vanilla JavaScript.
- Designed and implemented a structured multi-page architecture consisting of 9 additional program profile websites, each representing a different academy program.
- Built a consistent and scalable UI system to maintain design uniformity across all program pages.
- Implemented interactive frontend features using Vanilla JavaScript to enhance user experience and navigation.
- Optimized layout responsiveness to ensure compatibility across desktop, tablet, and mobile devices.
- Applied clean and modular frontend structure for maintainability and future scalability.

<https://hiacademy.id/>

# Mining Unit Component Monitoring System



Project Duration: 1 Month

Project Details:

- Developed a real-time web-based monitoring system for A2B service operations in mining environments using Laravel, MySQL, and Tailwind CSS.
- Designed and implemented a structured relational database schema to manage service records, time logs, operational status, and user roles.
- Built a responsive and operational-friendly UI for control rooms and videotron displays, showing unit entry time and real-time service status.
- Implemented multi-role access control (operator, officer, and admin) using Laravel authentication and authorization features.
- Developed automated downtime calculation logic to compute planned and actual downtime based on multiple operational time parameters.
- Built a time-based computation system that automatically adjusts date values when service activities continue to the next day.
- Enabled real-time service status updates to monitor unit progress from entry until “ready for use”.

DATE & TIME  
**18 Feb 2026**  
09:45

TOTAL SERVICE  
**11**

SERVICE MASUK  
**4**

UNIT RFU  
**2**

DATE	MONSWHEEL	IN	QA 1		WASHING		ACTION SERVICE		ACTION BACKLOG		QA 7		DOWNTIME		REMARK
			ACTUAL	PLAN	ACTUAL	PLAN	ACTUAL	PLAN	ACTUAL	PLAN	ACTUAL	PLAN	ACTUAL	PLAN	
2026-02-01		08:10	09:00	09:15	10:00	10:20	11:00	11:30	13:00	13:40	14:00	14:10	2h 0m	2h 30m	OVER
2026-02-01		-	09:00	-	10:00	-	11:00	-	13:00	-	14:00	-	2h 0m	-	OK
2026-02-01		-	09:00	-	10:00	-	11:00	-	13:00	-	14:00	-	2h 0m	-	OK
2026-02-01		-	09:00	-	10:00	-	11:00	-	13:00	-	14:00	-	2h 0m	-	OK
2026-02-01		08:10	09:00	09:15	10:00	20:30	11:00	21:19	13:00	-	14:00	-	2h 0m	-	OK
2026-02-01		08:10	09:00	09:15	10:00	-	11:00	-	13:00	-	14:00	-	2h 0m	-	OK
2026-02-01		08:10	09:00	09:15	10:00	-	11:00	-	13:00	-	14:00	-	2h 0m	-	OK
2026-02-01		08:10	09:00	09:15	10:00	-	11:00	11:30	13:00	-	14:00	-	2h 0m	-	OK
2026-02-01		08:10	09:00	09:15	10:00	-	11:00	11:30	13:00	-	14:00	-	2h 0m	-	OK
2026-02-01		08:10	09:00	09:15	10:00	-	11:00	11:30	13:00	-	14:00	-	2h 0m	-	OK
2026-02-05		22:12	21:53	22:45	22:28	20:54	22:54	21:04	08:49	21:05	10:53	22:32	13h 4m	2h 11m	OK
2026-02-01		-	09:00	-	10:00	-	11:00	-	13:00	-	14:00	-	2h 0m	-	-

Service Progress

CN / Unit  
DT7101

GL  
GL 5

Kapten  
KAPTEN 5

Unit Masuk  
08:10 AM

QA 1  
09:15 AM

Washing  
08:30 PM

Action Service  
09:19 PM

Action Backlog  
--:--

QA 7  
--:--

Handover Job

End Job

Close

Status: LIVE MONITORING

# Diskominfo Internship Registration Management System



Project Duration: 1 Month

Project Details:

- Developed a web-based internship registration and management system using Laravel, MySQL, and Tailwind CSS.
- Designed a relational database to manage internship vacancies, applicants, interview schedules, active interns, and logbooks.
- Implemented multi-role access control (applicant, intern, admin) using Laravel authentication and authorization.
- Built features for applicants to register, track applications, and view interview schedules.
- Developed intern logbook management for daily activity submission.
- Created an admin panel to manage vacancies, applicants, interviews, and active interns.
- Applied MVC architecture to maintain clean, scalable, and structured code.

The screenshot displays the SIMMAGANG web application interface. It features a blue sidebar with navigation options: Beranda, Lowongan Magang, Data Pendaftar, Jadwal Wawancara, Data Pemegang, Manajemen Pengguna, and a 'Keluar' button at the bottom. The main content area is titled 'Beranda' and shows the user 'Andi Pratama' with a profile icon. Below this are four summary cards: 'Posisi Magang 12', 'Total Pendaftar 14', 'Jadwal Wawancara 0', and 'Peserta Aktif 0'. A section titled 'Pendaftar Terbaru' includes a table with columns for Nama, Asal Sekolah / Universitas, Posisi Magang, Status, and Tanggal Daftar. The table lists Budi Santoso from SMK Negeri 1 Jakarta, applying for a Graphic Designer Intern position, with a status of 'Dikirim' and a registration date of 18 Feb 2026. Below the table is a 'Lowongan Magang Tersedia' section with filters for Departemen (Semua Departemen), Posisi (Semua Posisi), and a search field for 'Cari berdasarkan judul atau kata kunci'. A 'Terapkan Filter' button is present. The bottom section, 'Posisi Magang yang Tersedia', displays a grid of six internship positions: HR Intern (Human Resources), Backend Developer Intern (Technology), Graphic Designer Intern (Design), Frontend Developer Intern (Technology), Project Management Intern (Operations), and Content Writer Intern (Marketing). Each position card includes a brief description and a 'Lihat Rincian' button.

# Mining Unit Component Monitoring System



Project Duration: 1 Month

## Project Details:

- Developed a web-based component lifecycle monitoring system using Laravel, Tailwind CSS, Vanilla JavaScript, and MySQL for mining equipment.
- Built a formula-based calculation engine in Laravel (PHP) to automatically compute wear percentage and remaining component lifetime.
- Implemented a measurement-driven workflow where users input component measurements and the system processes calculations automatically.
- Developed automated replacement recommendation logic based on predefined operational thresholds.
- Integrated Hour Meter (HM) tracking with dynamic lifetime recalculation using Eloquent ORM and MySQL.
- Replaced manual spreadsheet calculations with a fully automated backend processing system.
- Designed a structured relational database schema to manage units, components, measurement history, and lifecycle tracking.

**Report**

Measurement Replacement Update HM

**Data Table**

Show  entries

Tanggal	Code Number	HM Unit	Jenis	Part Name	Part Number	Wear Percentage	Remaining Lifetime	Photo	Action	
2025-11-10 03:34:56	EX2027	5450	Measurement	Cylinder Arm	123	23.00	0.00%	3446	No Photo	aswan
2025-11-10	EX2027	5350	Measurement	Cylinder	456	23.00	0.00%	3526	No	Public

**Dashboard Info**

← Back Category: DRILLING

**DR0011**

Idler	100%	8000 hrs
Link	100%	8000 hrs
Track Roller	100%	8000 hrs
carrier Roller	100%	4000 hrs
Sprocket	100%	8000 hrs

**DR0025**

Link Pitch	98.75%	1975 hrs
Upper Roller	99.69%	7975 hrs
Idler	99.69%	7975 hrs
Lower Roller	99.69%	7975 hrs
Sprocket	99.69%	7975 hrs

# KPP Backlog Management System



Project Duration: 1 Month

Project Details:

- Conducted system requirement analysis to identify features, functionalities, and technical specifications.
- Designed and implemented database architecture to support system operations using MySQL.
- Developed a responsive web interface using Tailwind CSS and Vanilla JavaScript, optimized for both mobile devices (for field workers) and laptops/desktops (for office staff).
- Built backend functionality using Laravel framework, ensuring secure and efficient data processing.

**Learning Center**  
Selamat datang, berikut statistik backlog Anda

- Wheel Loader / Wheel Dozer Group**  
Manual pelatihan dan panduan teknis untuk wheel loader dan dozer.
- Engine Group**  
Dokumentasi dan pembelajaran mesin unit berat.
- Dump Truck Group**  
Materi pelatihan operasional dan perawatan dump truck.
- Motor Grader Group**  
Panduan teknis dan perawatan lapangan.

**KPP Mining**  
Tindakan Temuan  
Selamat datang, berikut statistik backlog Anda [Logout](#)

[+ Tambah Temuan](#) [Export Excel](#)

Show 25 entries

Code Number	Deskripsi	Tanggal
DT1234	Overheating	2025-07-30
DT2345	Bearing Oblak	2025-07-30

Showing 1 to 1 of 1 entries [Prev](#) [1](#) [Next](#)

**Dashboard**  
Selamat datang, berikut statistik backlog Anda [Logout](#)

- Total Temuan: 128
- Total Backlog: 42
- Backlog Closed: 9
- Backlog Completed: 6

**Grafik Backlog per Status**

Status	Jumlah Backlog
Open	78
Closed	42
Canceled	10

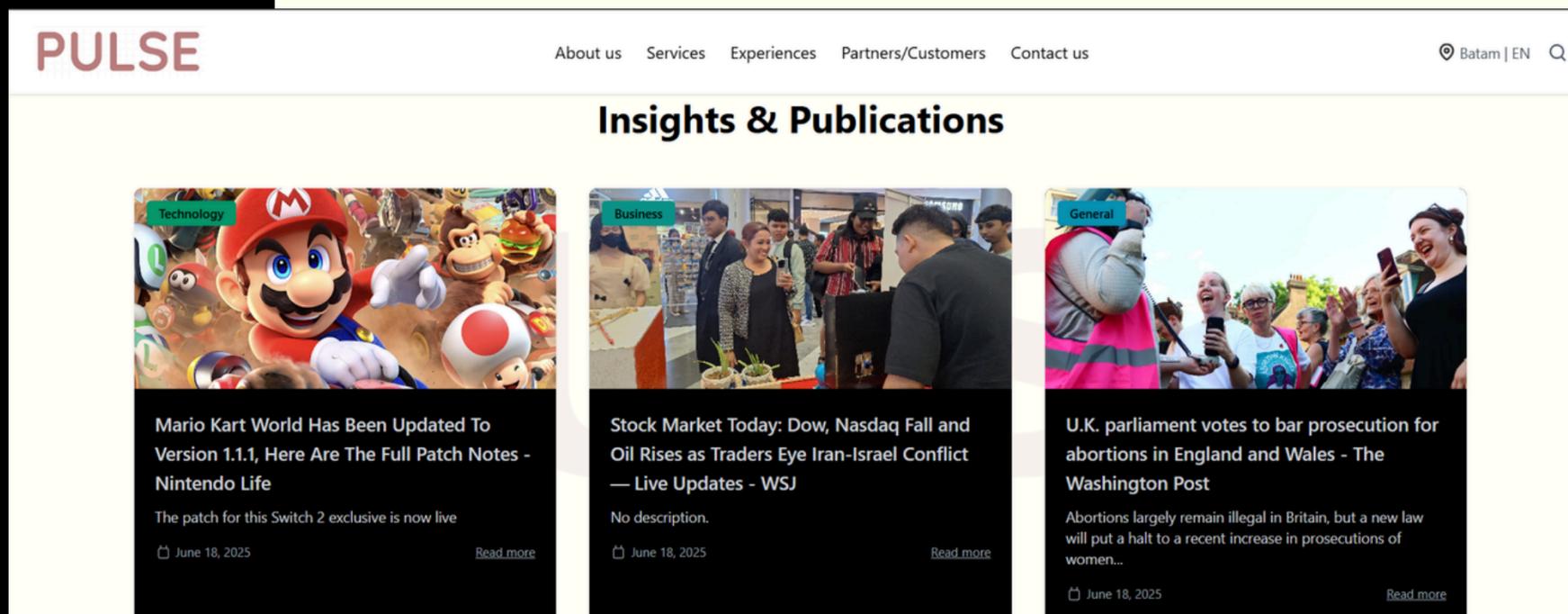
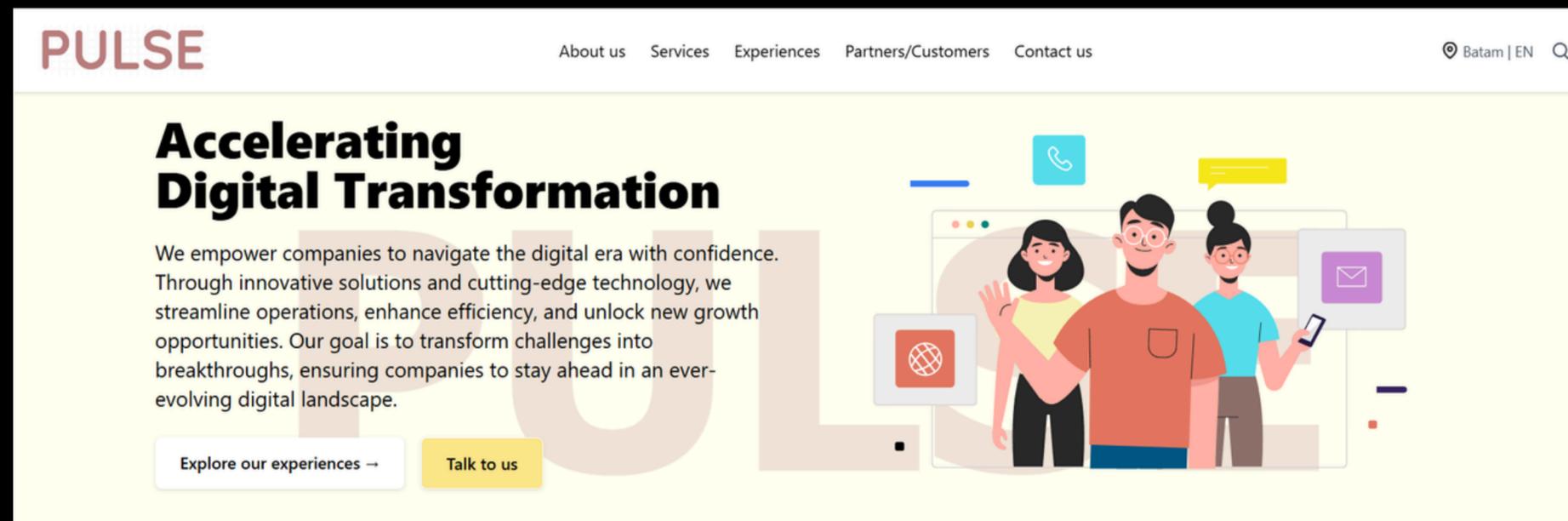
# Pulse Tech Company Profile



Project Duration: 2 Week

Project Details:

- Develop Pulse Tech Company Profile using Laravel and Tailwind Framework
- Integrating the page to News API to show the relevant news

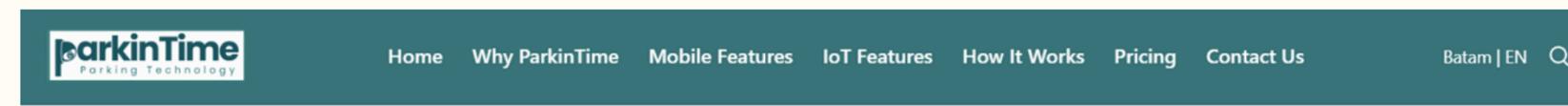


<https://pulse.dpmindonesia.com/>

# ParkinTime : IoT - Based Parking Management System & Parking Spot Booking Mobile App



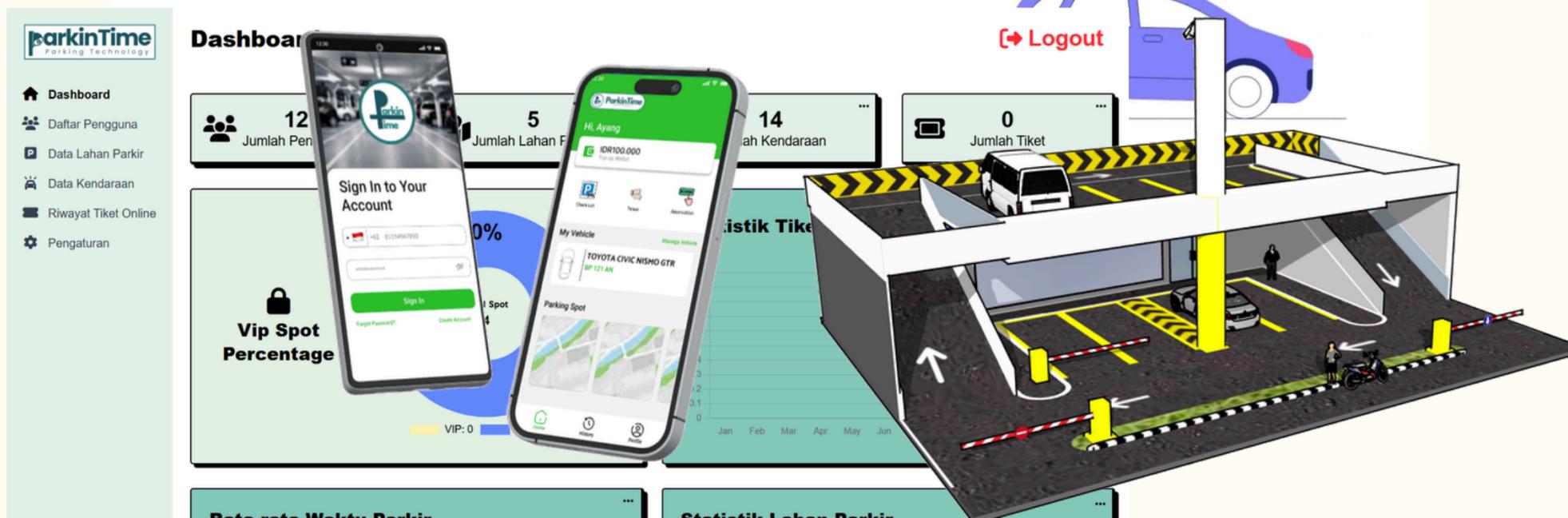
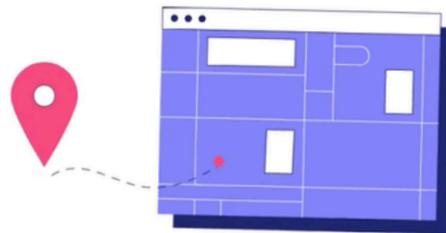
Project Duration: 4 Month



## ParkinTime

a smart parking management system powered by IoT and real-time automation. Find available spots faster, book them instantly, and manage parking efficiently—whether you're a driver or a parking operator.

ParkinTime combines real-time sensors, a user-friendly mobile app, and an advanced admin dashboard to bring modern, efficient parking to your fingertips.



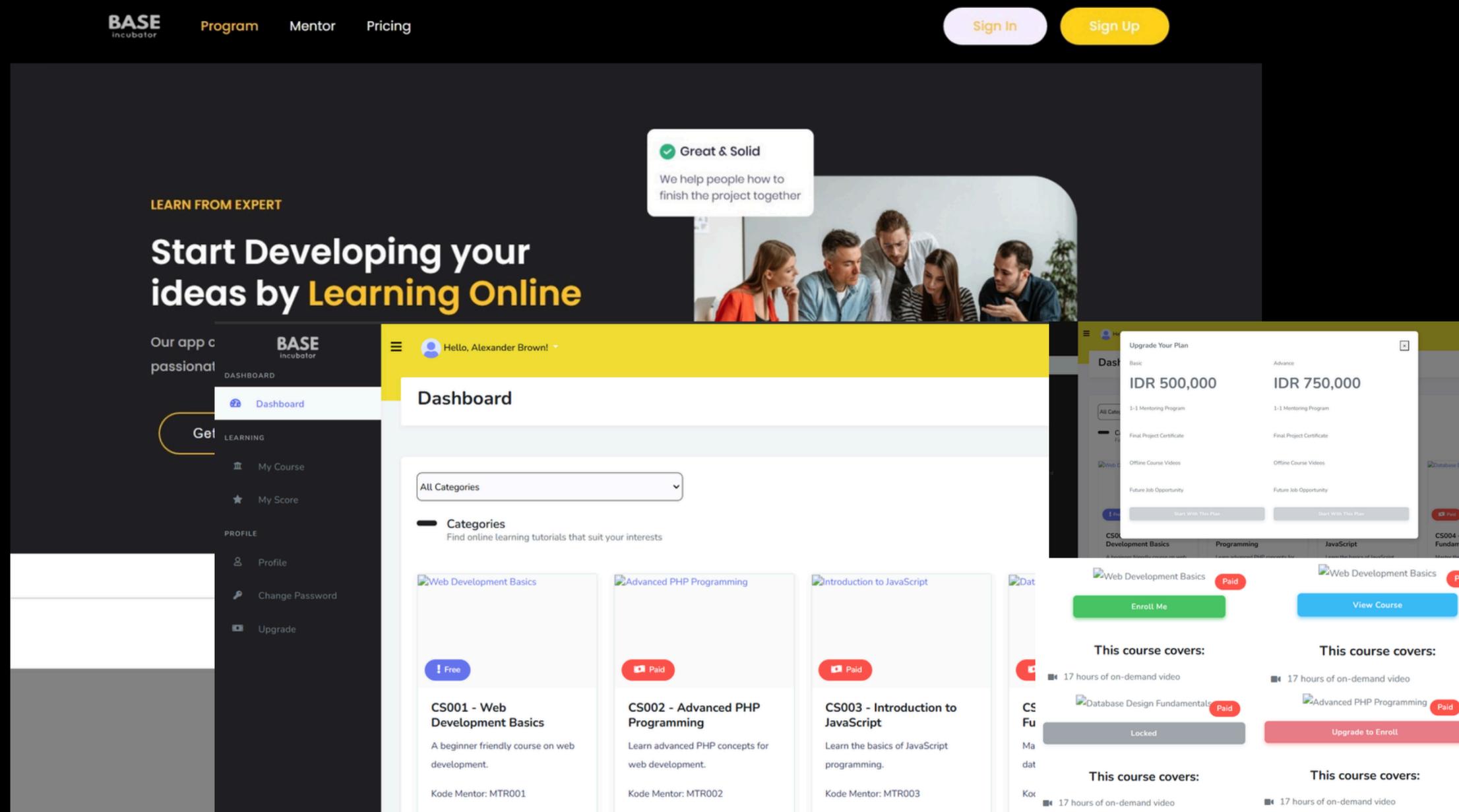
Project Details:

- Led two coordinated teams: one developing an IoT-based parking detection system with a website dashboard, and another creating a mobile booking app.
- Served as Requirement Analyst for both teams, gathering and defining system requirements to ensure technical and functional alignment.
- Designed the IoT system architecture and prototype using OpenCV and ESP32, integrating object detection with the web platform.
- Developed the website backend using Laravel, Vanilla JavaScript, and Tailwind CSS, and designed a MySQL database as the unified data source for both IoT and mobile applications.

<https://parkintime.web.id/>

# Base Incubator Online Learning Website ●●●

Project Duration: 7 Month



Project Details:

- Analyzed and documented system requirements for a paid online learning platform.
- Designed the database schema and implemented the backend using Laravel with MySQL.
- Developed complete backend logic, including multi-role user management (free, basic paid, premium paid), in-platform advertisement handling, and quiz functionality for each course module.
- Assisted in front-end development to ensure seamless integration between UI and backend functionality.

<https://baseincubator.com/>

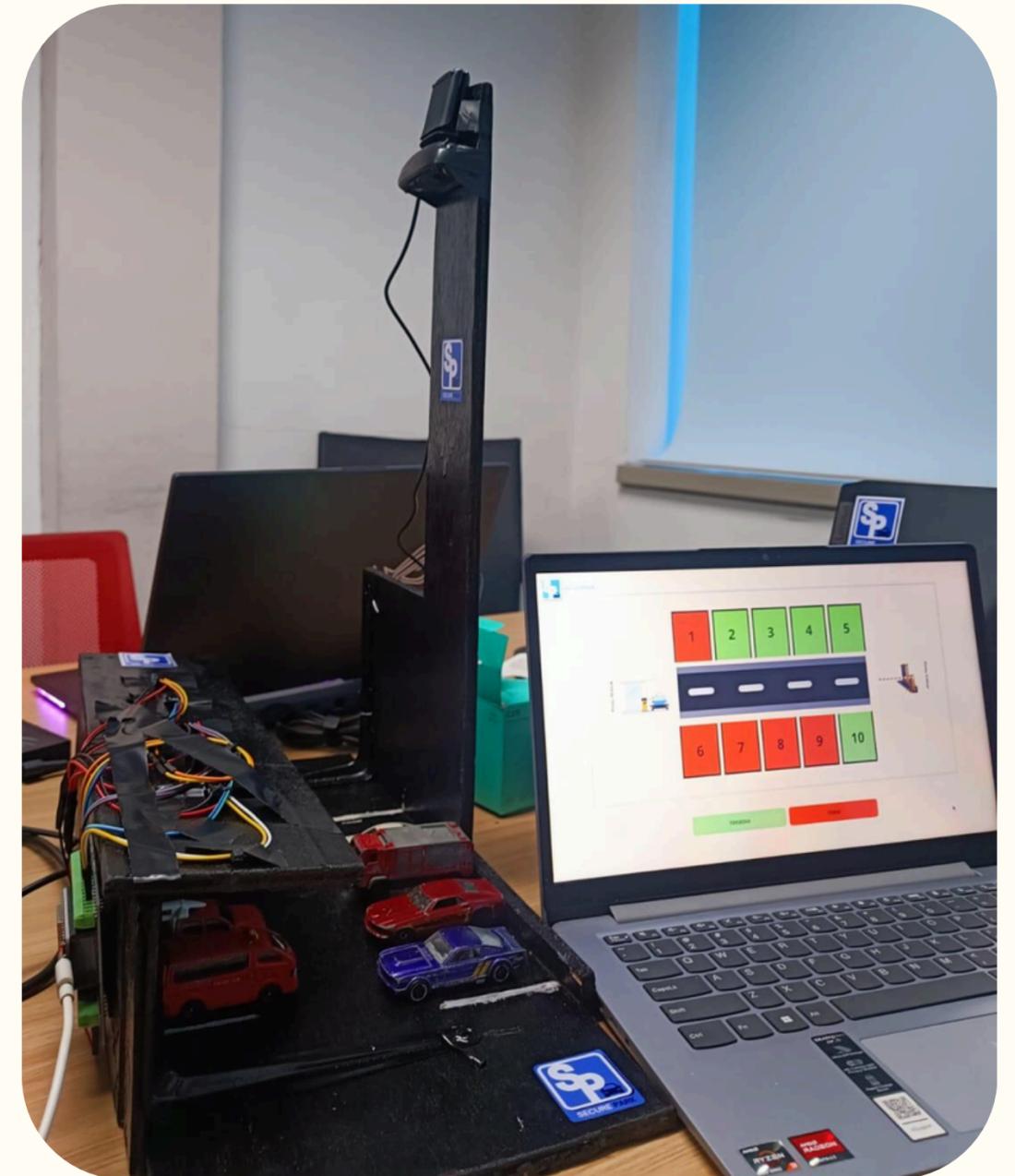
# IoT-Based Parking Management System



Project Duration: 4 Month

Project Details:

- Led as Team Leader & System Analyst
- Developed IoT-based system using ultrasonic sensors and object detection
- Implemented real-time parking status updates
- Designed and optimized database schema for parking data
- Awarded 3rd Place in IoT Category at PBL EXPO Polibatam 2024.



Project Video: <https://youtu.be/tchc82wwVSY?si=3K6zp38CzGT4sEL7>

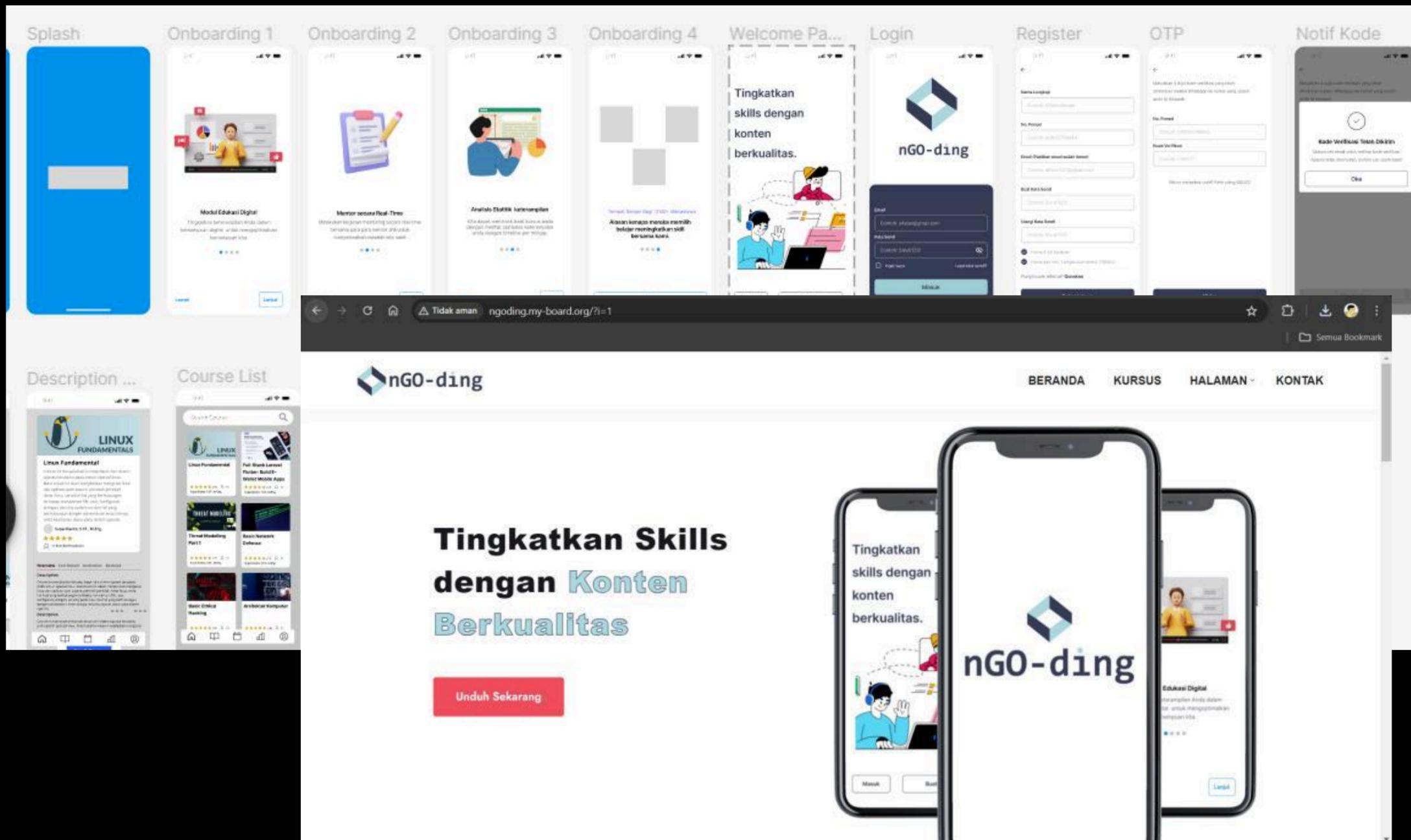
# Online Course Provider Application



Project Duration: 4 Month

Project Details:

- Handled frontend development for the admin panel using Laravel
- Designed and integrated backend database using MySQL
- Implemented CRUD functionalities for course and user management
- Ensured mobile responsiveness and UI consistency



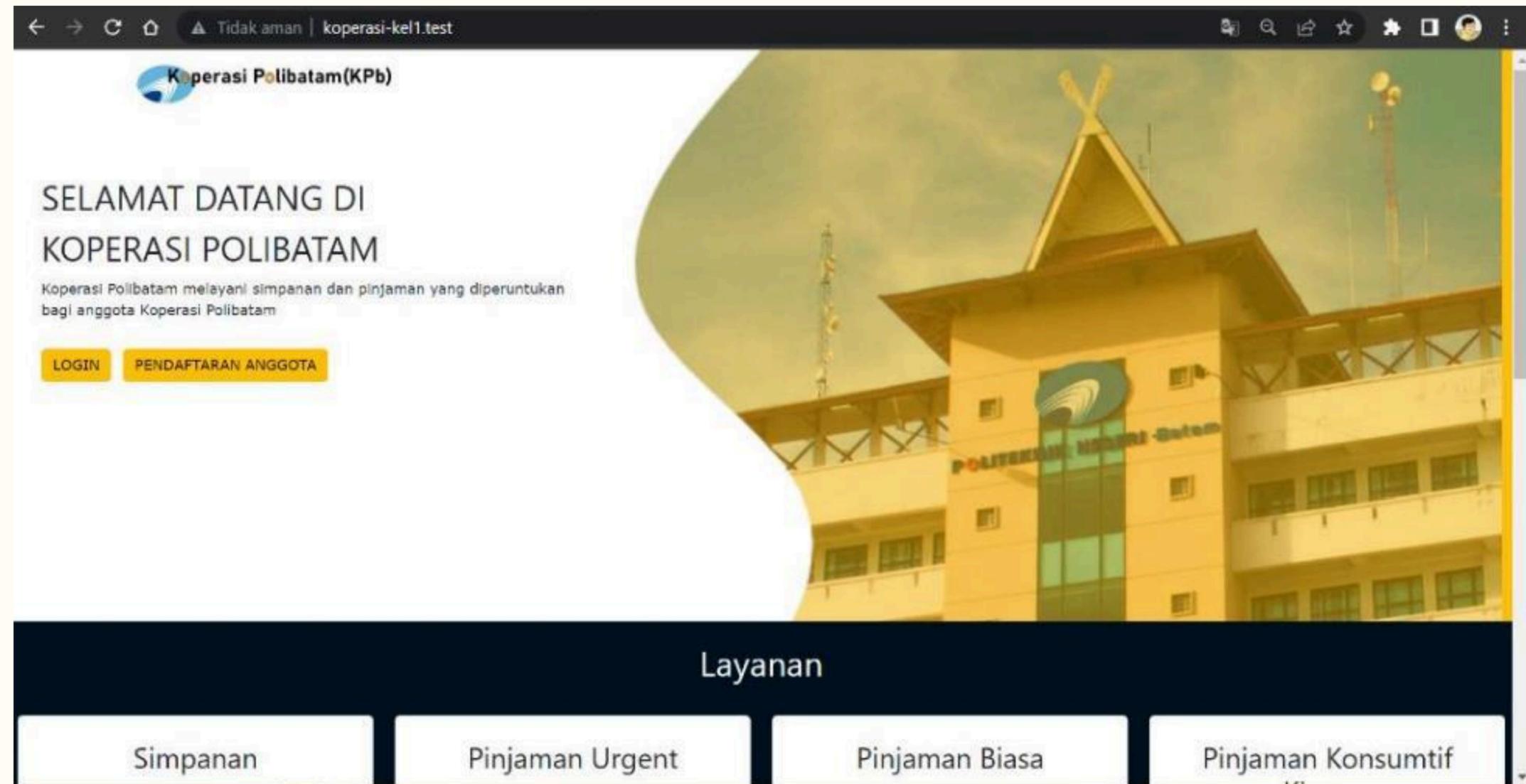
# Cooperative Management System



Project Duration: 4 Month

Project Details:

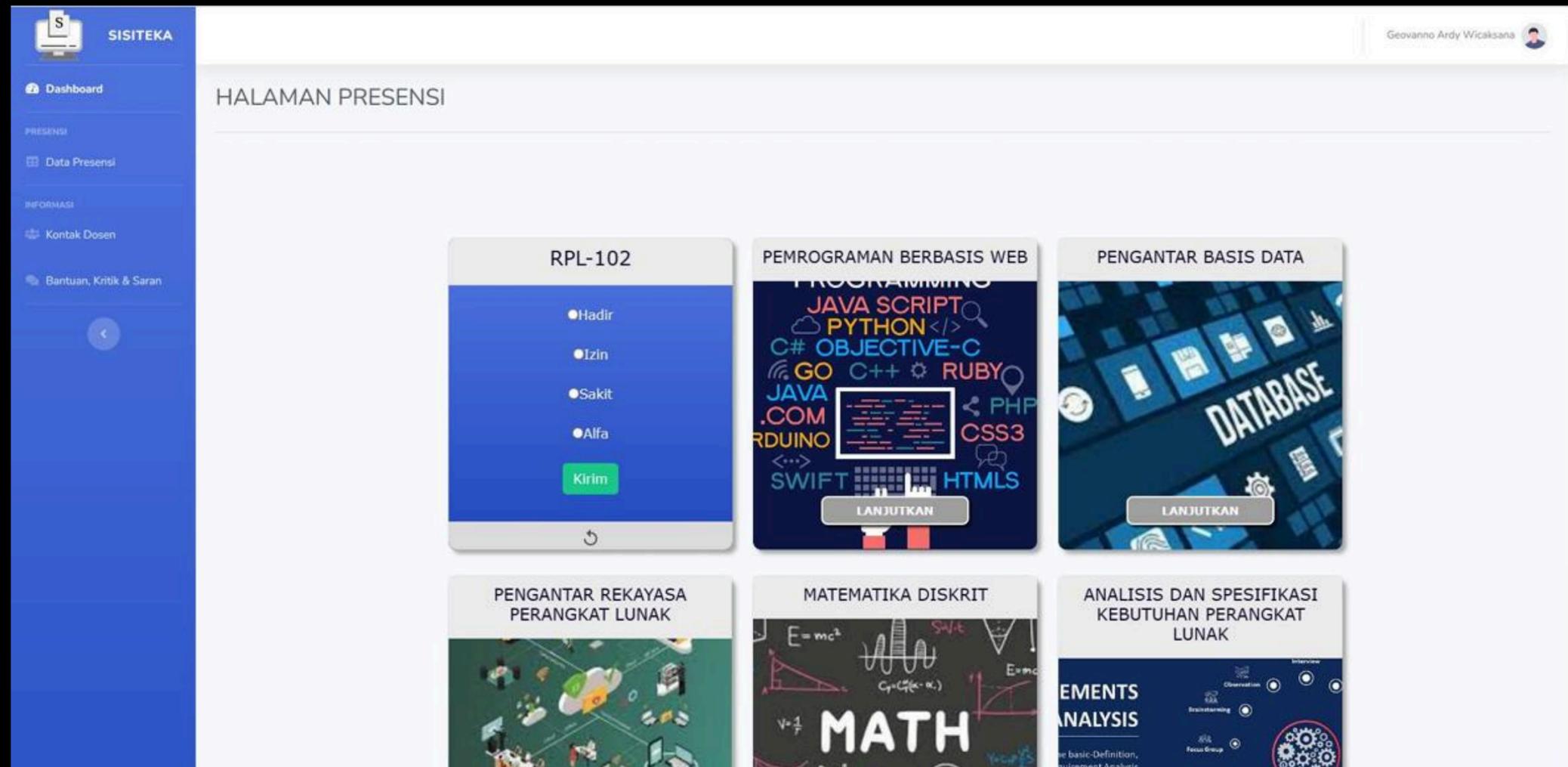
- Developed a fullstack web system using Laravel
- Designed and structured database for cooperative transactions
- Implemented authentication and user role management
- Created interactive dashboards for financial reports



# Attendance System Website



Project Duration: 4 Month



Project Details:

- Developed a fullstack web-based attendance system
- Built using PHP Native
- Designed and implemented a database for attendance records
- Created an intuitive UI for student and teacher interaction

# Mini Laser CNC



Project Duration: 3 Month

Project Details:

- Built a Mini Laser CNC Machine as a final internship project which made from scraps
- Assembled mechanical and electronic components
- Programmed motion control for laser cutting precision
- Conducted calibration and testing to ensure optimal performance

Project Video: <https://youtu.be/q4Bwskubvcs?si=h0P-GOXfssYMJrcw>

