

# Portfolio

**VINCENT KARUNIA**

Information Systems Student | Data & Tech Enthusiast



# Get To Know Me

I'm an Information Systems student specializing in Data Analytics and Business Intelligence. My primary focus is transforming complex data into actionable insights using SQL and BI tools. I also leverage my technical background in Web Development (Laravel) and Python to build comprehensive data-driven solutions.



## EXPERIENCE

### **Church Member Database Management Website Development Team Member | GKI Raya Hankam** 2025-present

Developing a CRM-based website for monitoring and managing congregation member data at GKI Raya Hankam.

### **Publication and Documentation Team Member | UKRIDA E-sports Student Creativity Unit**

2024-2025

Create and design creative visual designs in the form of Instagram feeds, stories, and reels for events in accordance with the organization's work program.

## EDUCATION

### **Krida Wacana Christian University | Faculty of Smart Technology | Information System Program**

2023-present

GPA: 3.89/4.00 (5th Semester)

## Let's Connect!

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# Tools

What I've explored so far...

## DATA VISUALIZATION & ANALYSIS



Tableau



Power BI



Metabase



MS Excel

## DATABASE & WEB DEVELOPMENT



MySQL



PostgreSQL



Laravel



PHP



HTML + CSS + JS



Python



Postman

## WORKFLOW



Git & GitHub

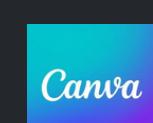


Notion

## OTHER TOOLS



Figma



Canva



Capcut

and many more...

# Projects

What I've done so far...

- Data-Driven System Analysis
- Data Dashboard
- Machine Learning
- Web Development

# Data-Driven System Analysis



## \* About the System

blu by BCA Digital is a prominent mobile-only digital bank in Indonesia with over 2.4 million active users. It integrates traditional banking with e-wallet concepts through features like bluSaving and bluGether. However, despite its strong affiliation with BCA, user reviews indicated performance gaps that threatened user retention.

## \* STAR Method

- **Situation:** In the competitive digital banking landscape, user retention is heavily dictated by app performance. Preliminary scraping of 10,000+ Google Play Store reviews indicated high user friction, but the root technical causes remained unquantified.
- **Task:** To perform a comprehensive analysis bridging raw user sentiment data with system architecture to identify performance bottlenecks and propose technical optimizations.

Application: **blu**

Tools Used: 



## \* STAR Method

- **Action:** I engineered a Python scraper to extract sentiment trends and validated them through primary research (surveys of 27 respondents and structured interviews). I performed a Gap Analysis on 20 key features (F01-F20), mapping complaints like "Premature Logout" and "Slow QRIS" to the system's backend and business processes.
- **Result:** Discovered a critical gap where QRIS initialization (2.5s) exceeded the ideal threshold by 150%. I delivered a prioritized technical roadmap, including a Smart Session Extension and Lite Mode for mid-range devices, aimed at cutting transaction time from 35s to <15s.

# Data-Driven System Analysis

\* More Details [Full Document](#)

Application: **blu**

Tools Used: 

# Data-Driven System Analysis

```
1 from google_play_scraper import reviews, Sort
2
3 package_name = "id.dana"
4
5 all_reviews, _ = reviews(
6     package_name,
7     lang='id',
8     country='id',
9     sort=Sort.NEWEST,
10    count=10000
11 )
12
13 path_file = './reviews.txt'
14
15 with open(path_file, 'w', encoding='utf-8') as f:
16     for r in all_reviews:
17         line = f'{r['score']} ★ - {r['content']}\n'
18         f.write(line)
19
20 print(f"Berhasil mengambil {len(all_reviews)} review.")
```

## \* Data Scraping

Scraping review data from  
Google Play Store

Application: **blu**

Tools Used: 

# Data Dashboard

Congregation data visualization dashboard with Metabase integrated with CRM database.

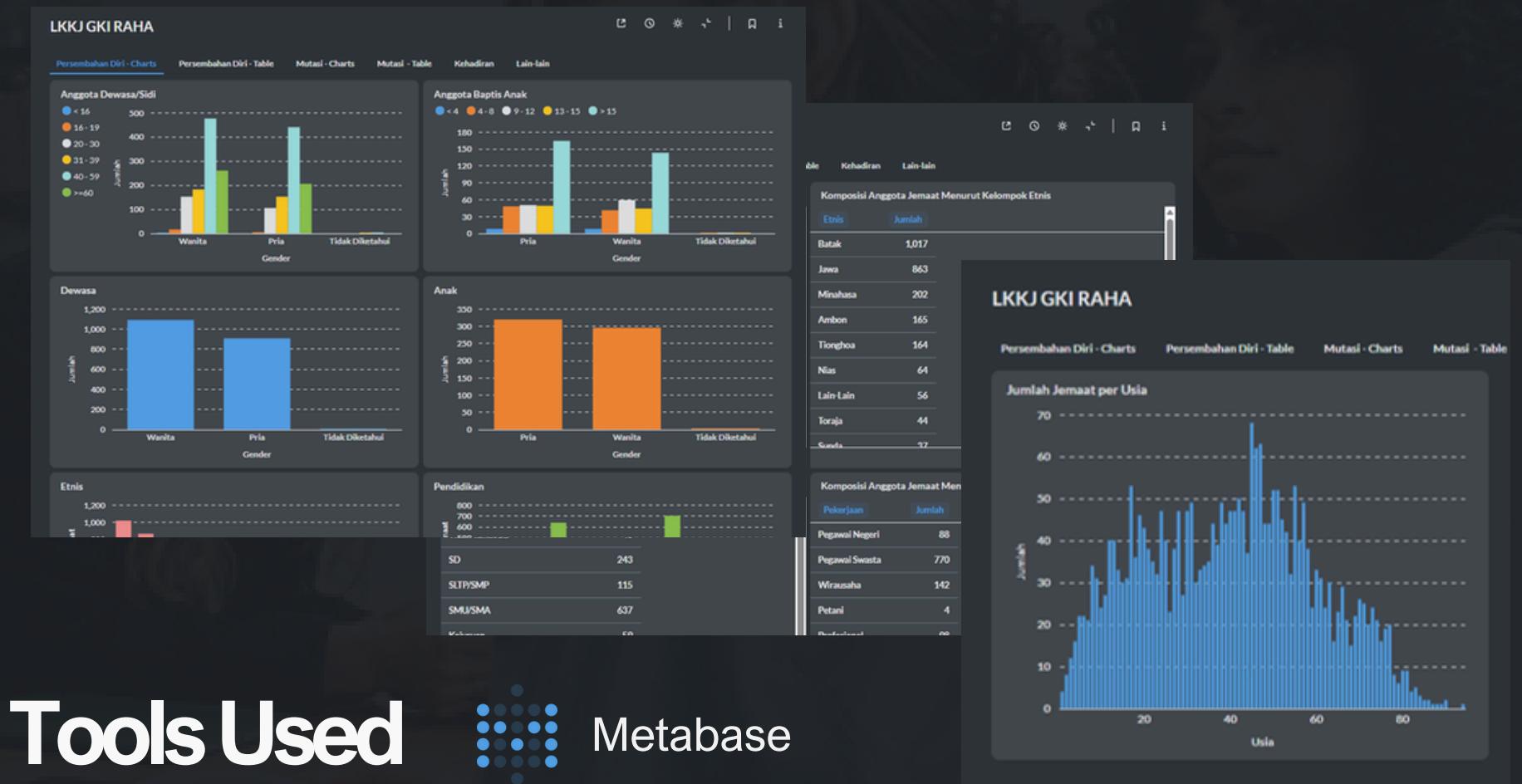
## \* The Problem

Church stakeholders struggled with manual Excel reports to track growing number of members

## \* The Solution

Integrated Metabase with the live database to visualize trends instantly

## \* Some Snapshots



## \* Tools Used



Metabase

# Data Dashboard

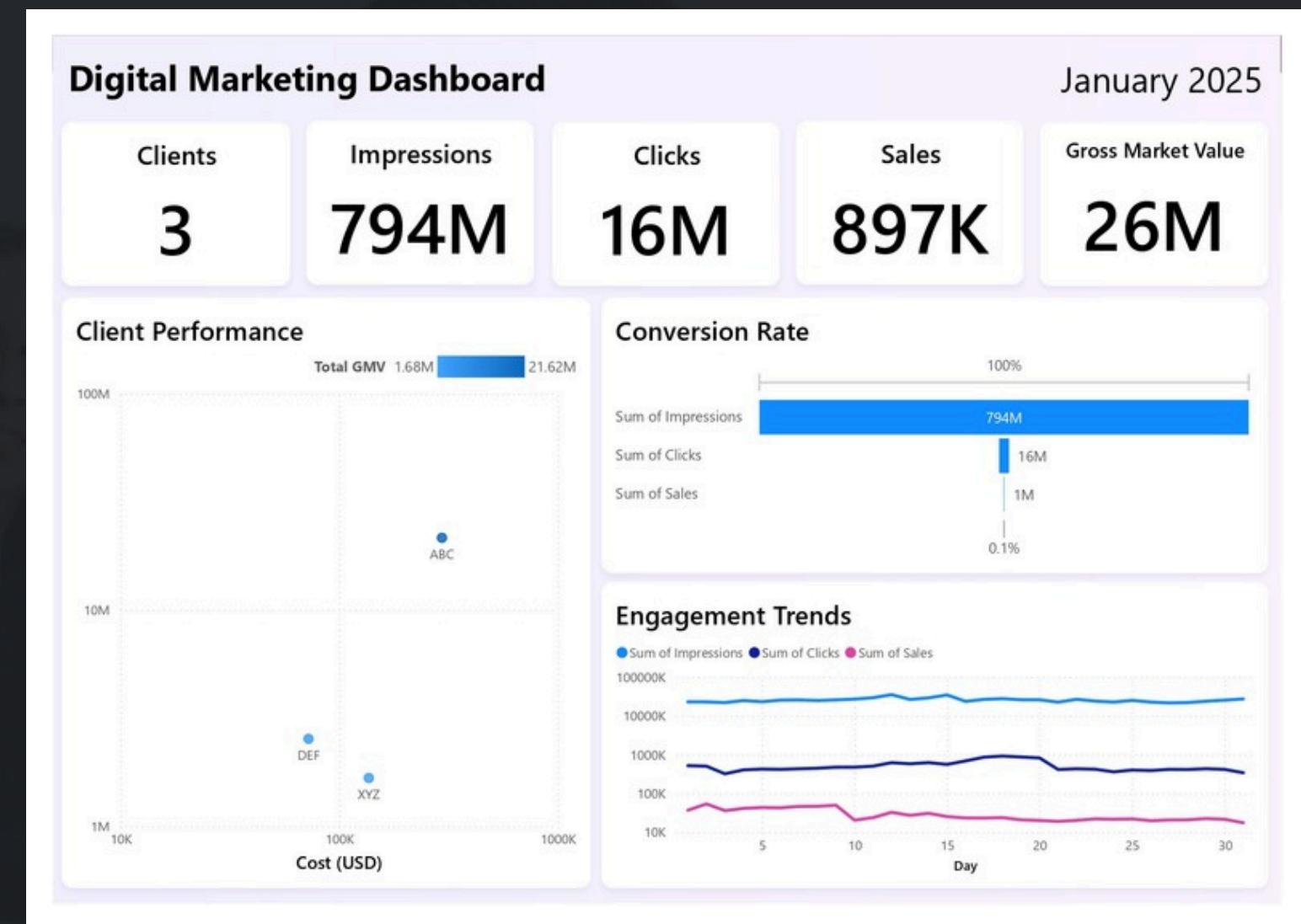
\* Tools Used



Developed an interactive dashboard to monitor ad spend efficiency and conversion effectiveness across multiple e-commerce advertising accounts.

## \* STAR Method

- **Situation:** Monitoring ad spend efficiency and conversion effectiveness across multiple e-commerce accounts was difficult without a unified visualization tool.
- **Task:** To design an interactive dashboard that maps advertising efficiency and detects performance trends to optimize ROI.



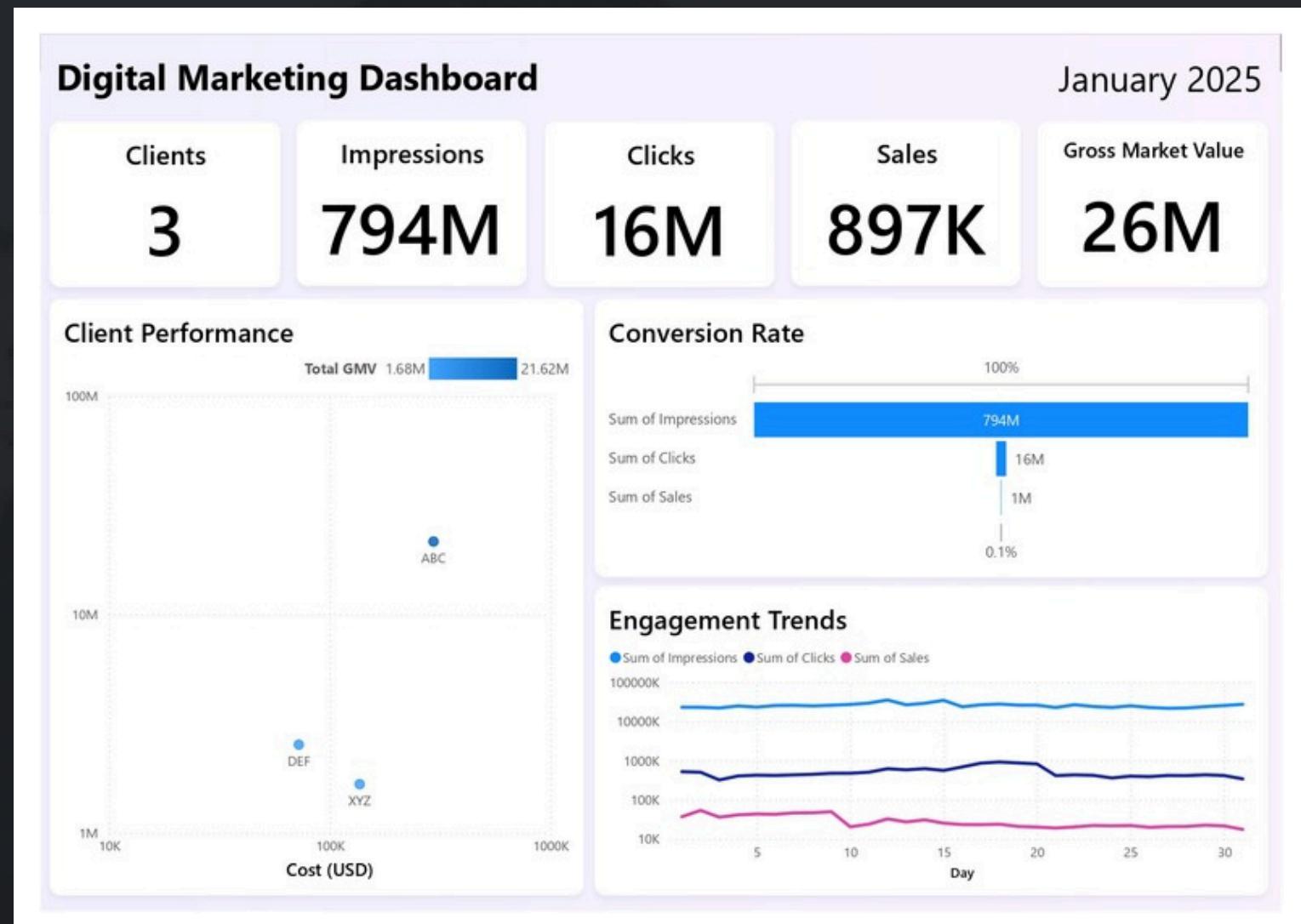
# Data Dashboard

\* Tools Used  

Developed an interactive dashboard to monitor ad spend efficiency and conversion effectiveness across multiple e-commerce advertising accounts.

## \* STAR Method

- Action:** Using Power BI, I engineered scatter plot visualizations to analyze the correlation between Cost and GMV for standardized ROAS monitoring. I also leveraged daily engagement line charts and end-to-end funnel analysis to identify conversion bottlenecks.
- Result:** Provided full visibility into a total Gross Market Value (GMV) of \$26M across three clients, allowing for the translation of complex datasets into actionable growth and creative strategies.



# Data Dashboard

\* Tools Used  

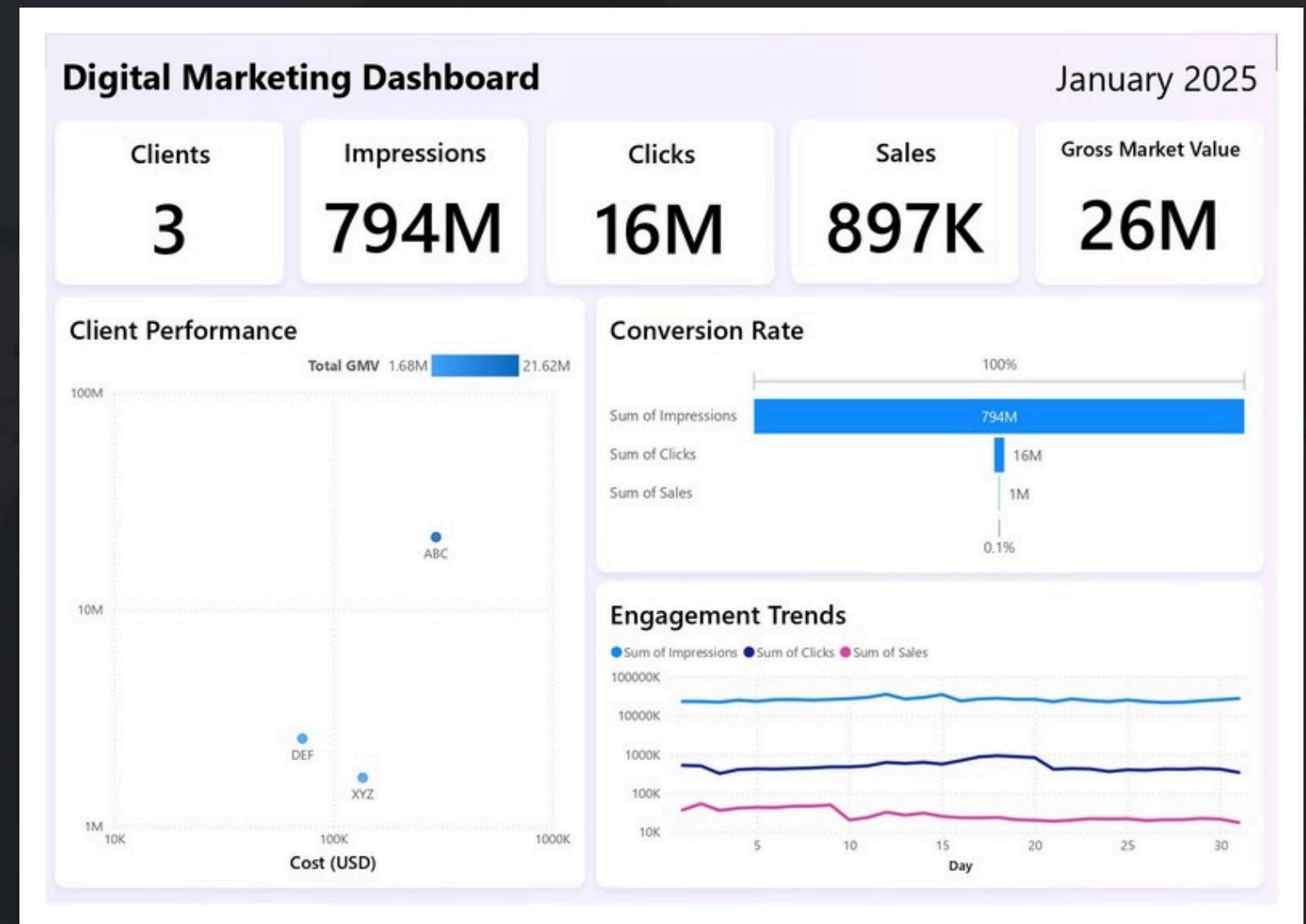
Developed an interactive dashboard to monitor ad spend efficiency and conversion effectiveness across multiple e-commerce advertising accounts.

## \* Efficiency Mapping

Engineered scatter plot visualizations to analyze the correlation between Cost and GMV, providing a standardized view of ROAS performance.

## \* Funnel Analysis

Visualized the end-to-end user journey to pinpoint conversion bottlenecks, identifying critical drops in Click-Through Rates (CTR) for low-performing segments.



# Data Dashboard

\* Tools Used



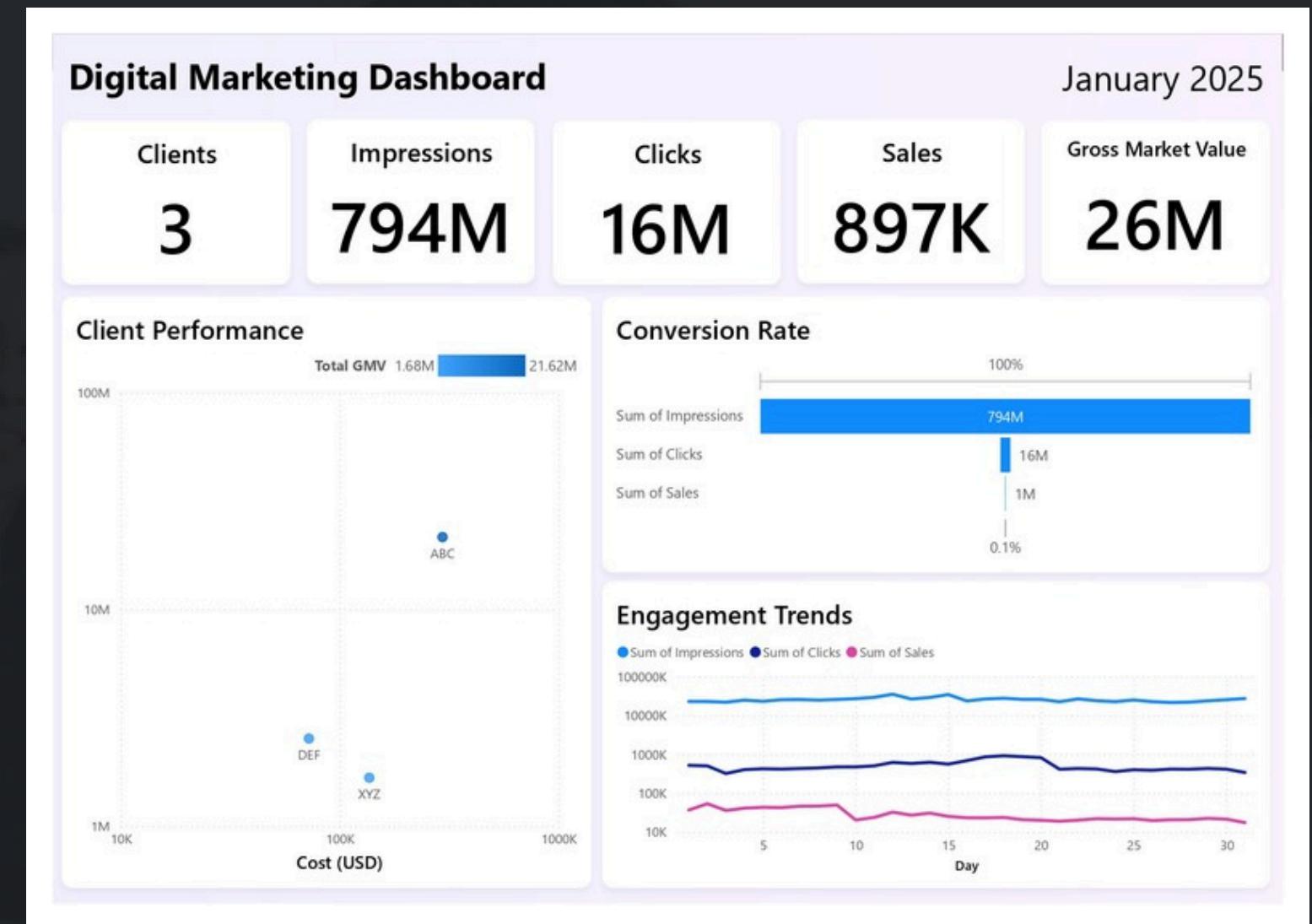
Developed an interactive dashboard to monitor ad spend efficiency and conversion effectiveness across multiple e-commerce advertising accounts.

## \* Trend Detection

Leveraged daily engagement line charts to detect performance anomalies and seasonal fluctuations in user activity.

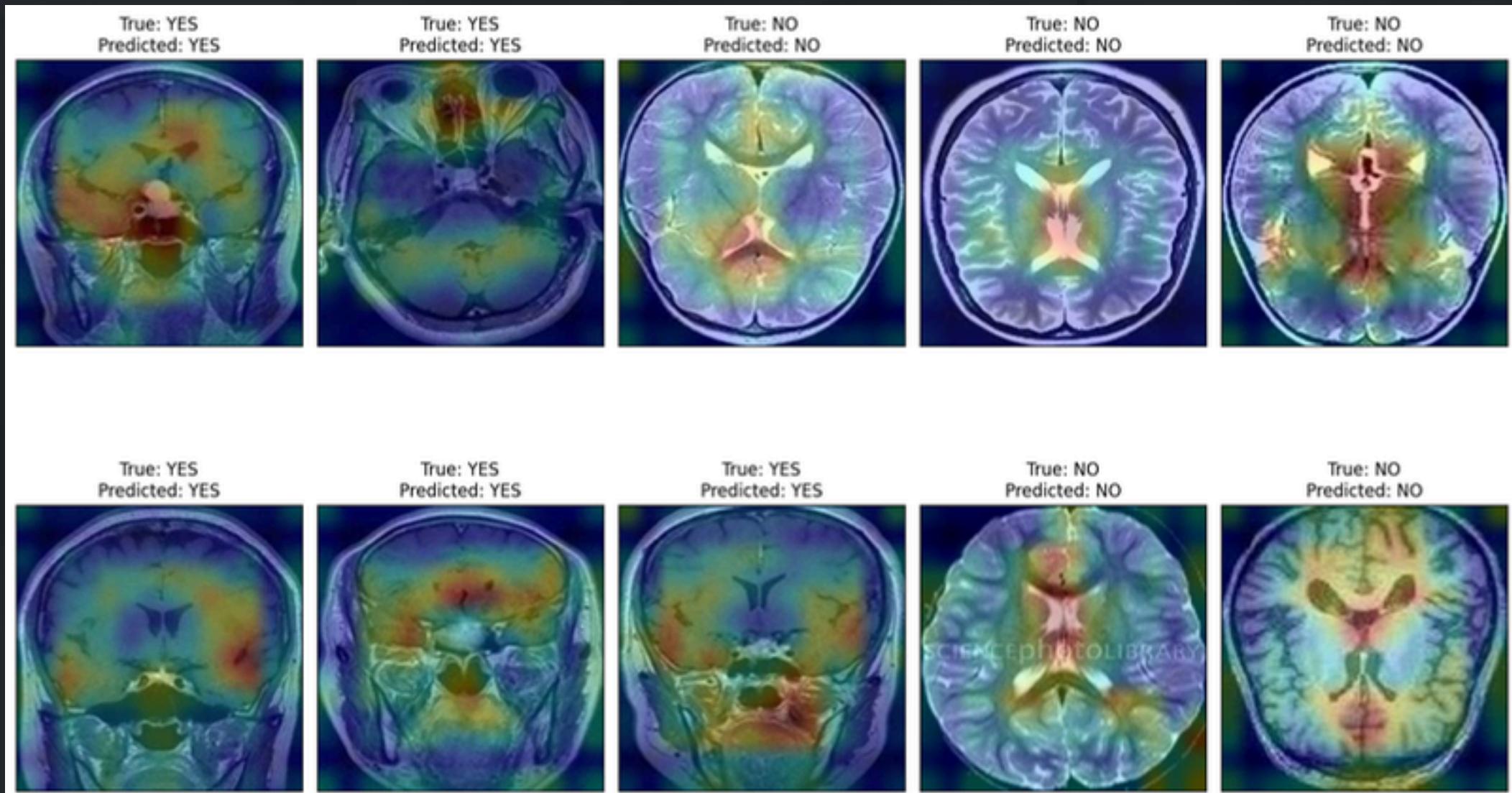
## \* Strategic Optimization

Translated complex datasets into actionable growth strategies, focusing on creative overhauls and A/B testing to maximize advertising ROI.



# Machine Learning

Utilized Google Colab's GPU acceleration to optimize training time for the VGG16 model, ensuring high-performance execution without local hardware constraints.



## \* More Details

[Dataset](#) [The Code](#)

## \* MRI Brain Tumor Classification

Medical image analysis using Python & VGG16 (CNN) on Google Colab to detect tumors from MRI scans with high accuracy from Kaggle datasets.

## \* Tools Used



Python



Google Colab



Kaggle

# \* GKI Raya Hankam Membership Database

A comprehensive CRM system built with PHP (ChurchCRM Based) to manage 3000+ congregation data.

## \* Key Features

- Centralized Data Management.
- Real-time Demographic Statistics.
- Secure Role-Based Access Control.
- QR-Based Event Check-in.

## \* Tools Used

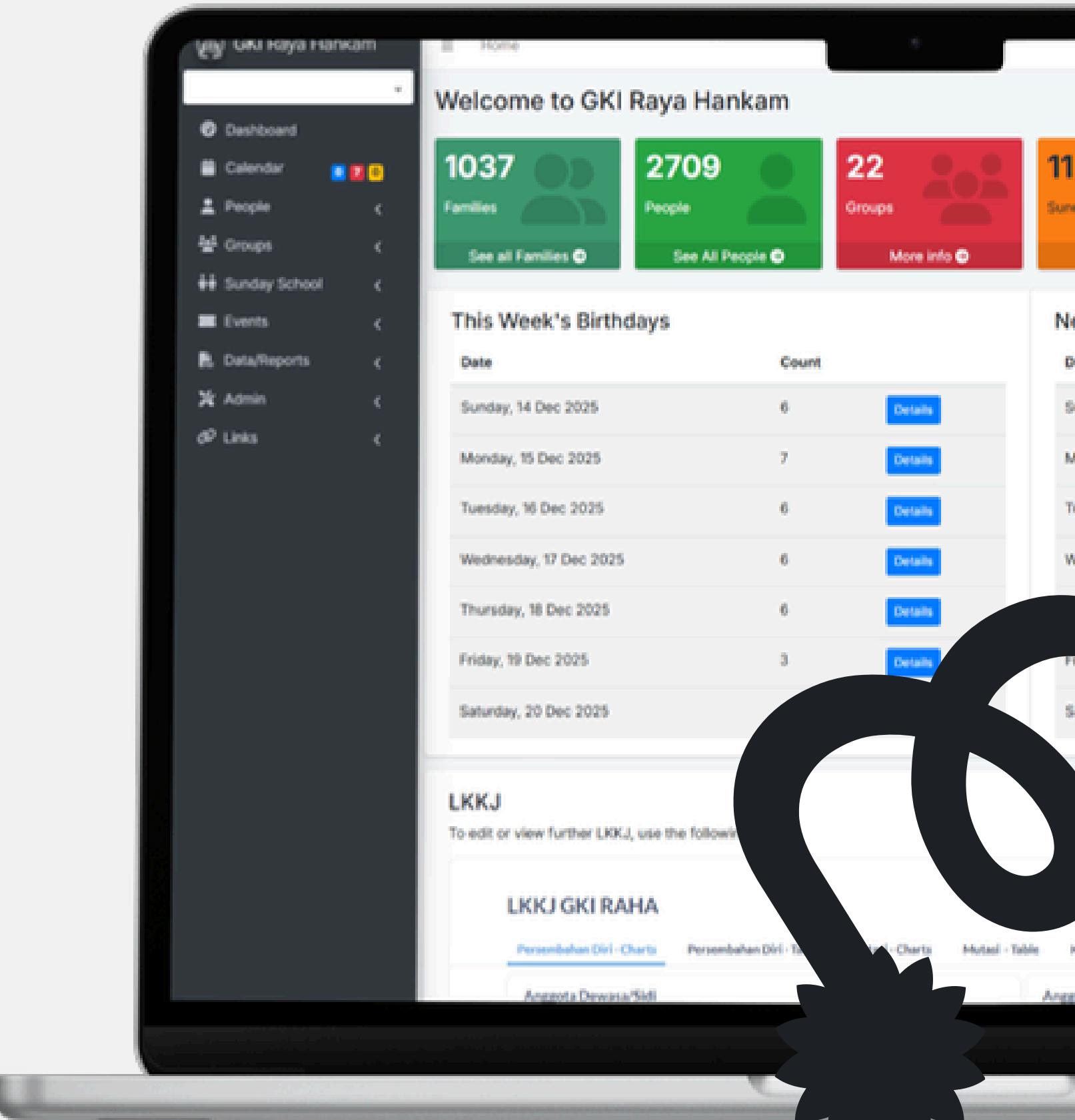


MySQL



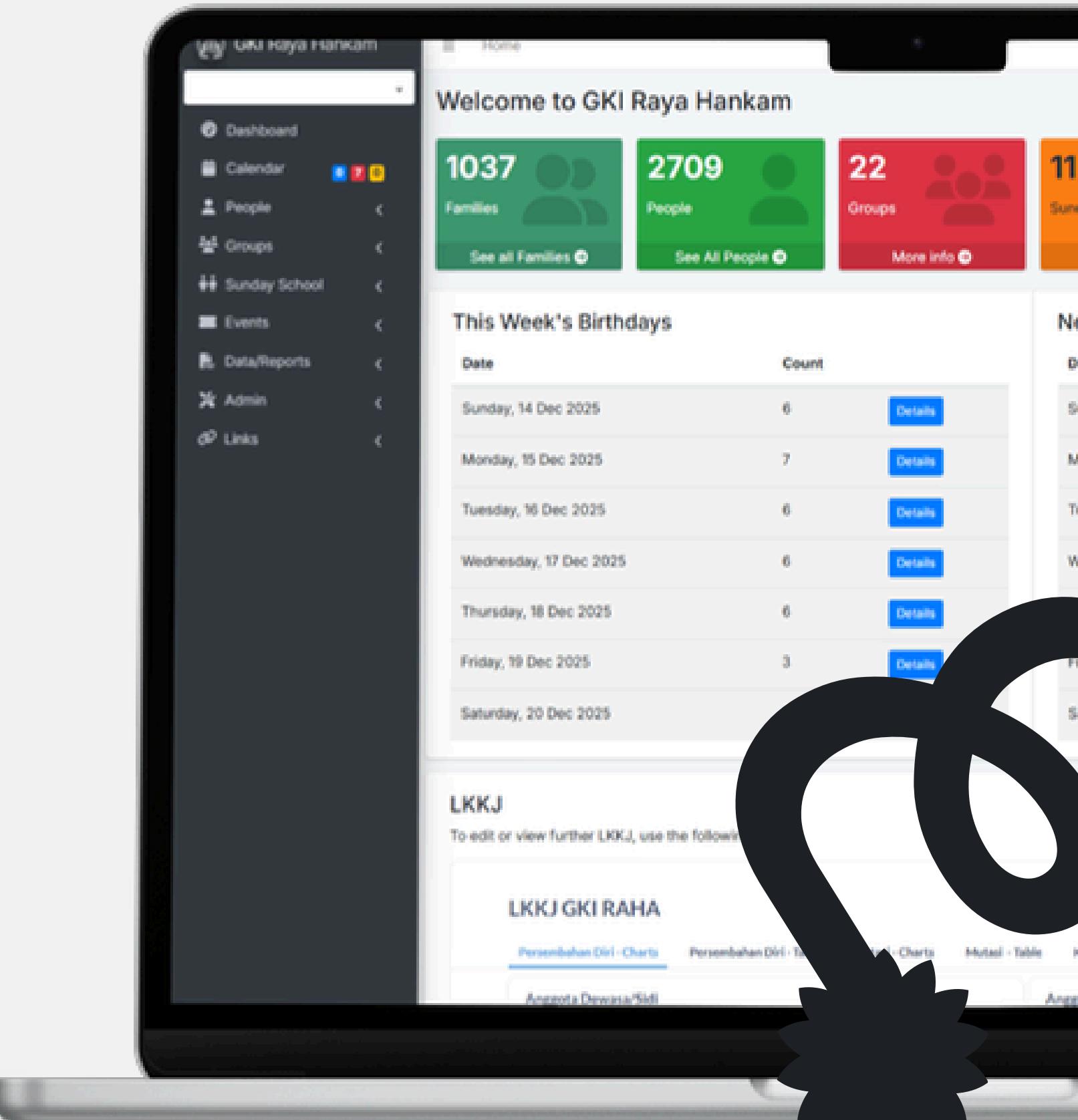
PHP

# Web Development



## \* STAR Method

- **Situation:** The church board struggled with manual Excel-based reports to track a growing congregation of over 3,000 members, which led to data silos and delayed reporting.
- **Task:** To develop a centralized, secure CRM-based membership database system to automate reporting and provide real-time demographic monitoring.
- **Action:** I engineered a full-stack CRM system using PHP and MySQL, designed an optimized relational database schema, and implemented secure Role-Based Access Control (RBAC). Furthermore, I integrated a Metabase Dashboard to visualize trends and weekly growth instantly.
- **Result:** Successfully migrated the entire congregation database to a digital system, replacing manual workflows and enabling stakeholders to access actionable insights for periodic data monitoring immediately.



# \* The Snapshots

Welcome to GKI Raya Hankam

1037 Families, 2709 People, 22 Groups, 11 Sunday School Classes, 3 Attendees Checked In

This Week's Birthdays

Date	Count
Sunday, 14 Dec 2025	6
Monday, 15 Dec 2025	7
Tuesday, 16 Dec 2025	6
Wednesday, 17 Dec 2025	6
Thursday, 18 Dec 2025	6
Friday, 19 Dec 2025	3
Saturday, 20 Dec 2025	6

Next Week's Birthdays

Date	Count
Sunday, 21 Dec 2025	7
Monday, 22 Dec 2025	11
Tuesday, 23 Dec 2025	8
Wednesday, 24 Dec 2025	7
Thursday, 25 Dec 2025	11
Friday, 26 Dec 2025	3
Saturday, 27 Dec 2025	5

LKKJ

To edit or view further LKKJ, use the following link.

LKKJ GKI RAHA

Export tab as PDF

Main Dashboard

QR Checkin

Select the event to which you would like to check people in for:

Kebaktian Umum 1 2025-08-10

Add Attendee for Event

Current Time: Mon, Dec 15, 2025, 17:44:08

Attending Person

Person Name

Adult Name (Optional)

Checked in By (Optional)

Checkin Cancel

Mark Checked In Add Value

QR-Based Check-in

Person Profile

Vincent Karunia Pratama Simanjuntak

Gender: Male, Family Role: Undefined, Member: Edit

QR Code

Download QR

About Me, Family, Timeline, Assigned Groups, Assigned Properties, Check-in QR

Person Management

Person Editor

Group Listing

Listing All Church Events

and many more...

\* More Details [The Site](#) [The Code](#)

# Web Development

# Web Development

## \* 5th Apparel

A functional web-based e-commerce platform built with Laravel, featuring a clear distinction between an Administrative dashboard for inventory management and a user-friendly interface for customers.

## \* Role

Technical Project Lead & Backend Developer

## \* Tools Used



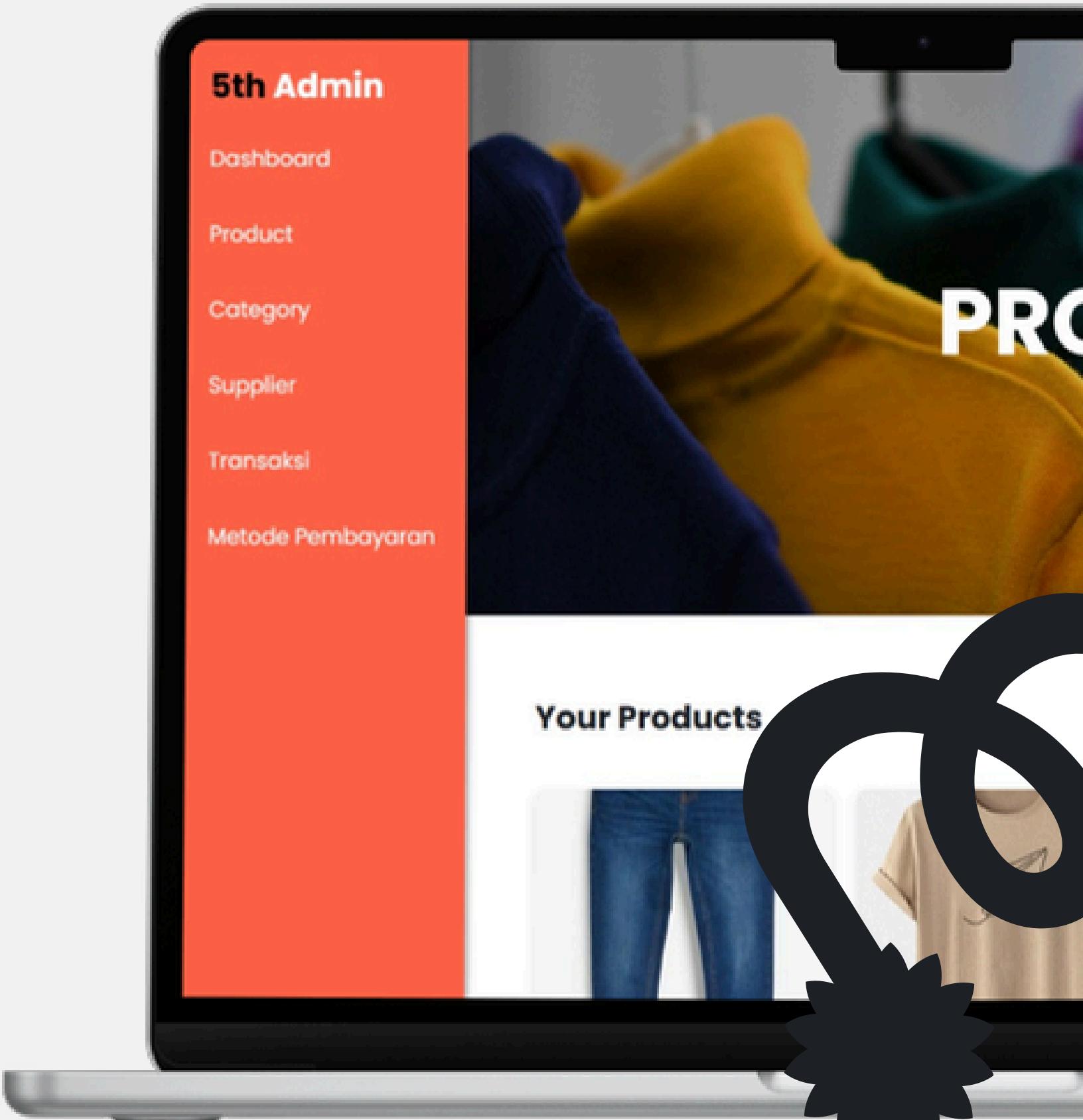
Laravel



MySQL

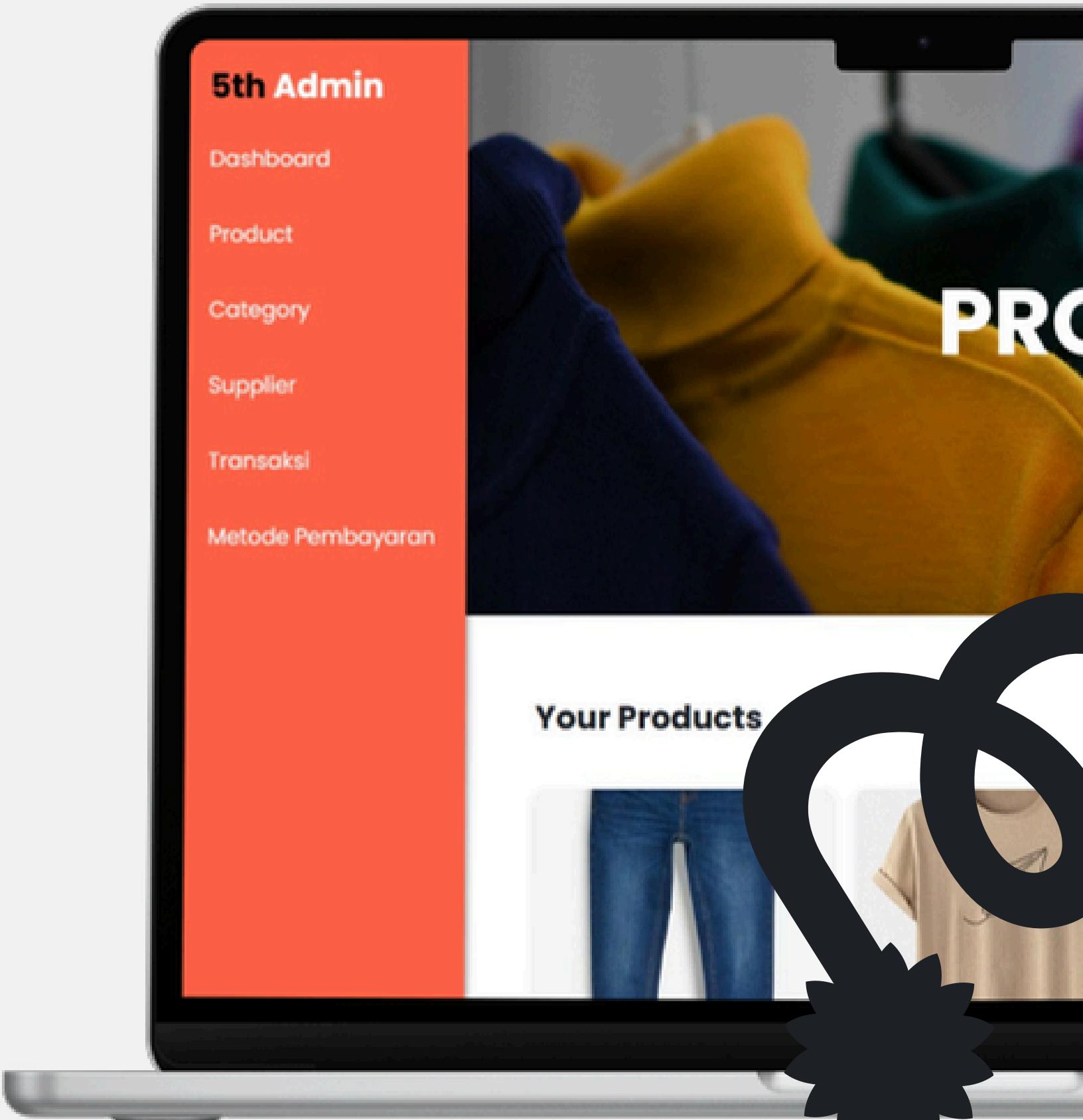


Postman



## \* STAR Method

- **Situation:** As part of a team project, we were tasked with building a functional e-commerce platform with a clear distinction between administrative management and the customer interface.
- **Task:** Serving as the Technical Project Lead & Backend Developer, my goal was to design the system architecture and lead the team to ensure synchronized module delivery.
- **Action:** I developed the platform using the Laravel framework and MySQL, implementing core backend logic via MVC patterns. I engineered secure Admin CRUDs for inventory, session-based shopping carts for users, and automated transaction emails via SMTP.
- **Result:** Delivered a fully functional e-commerce solution on time, featuring optimized database queries for high performance and seamless integration between admin and user modules.



# Web Development

## \* Key Contributions

- **Team Leadership:** Directed team tasks and synchronized Admin-User modules to ensure on-time delivery.
- **Backend Architecture:** Designed relational database schemas and implemented core backend logic using Laravel MVC.
- **Key Features:** Developed a secure Admin CRUD (Product & Payment) and a session-based Shopping Cart for users.
- **Technical Optimization:** Managed authentication handling, automated transaction emails (SMTP), and optimized queries for better performance.

```
1 Schema::create('products', function (Blueprint $table) {  
2     $table->id();  
3     $table->foreignId('category_product_id')->nullable()->index();  
4     $table->foreignId('supplier_id')->nullable()->index();  
5     $table->string('image');  
6     $table->string('title');  
7     $table->text('description');  
8     $table->decimal('price');  
9     $table->integer('discount')->default(0);  
10    $table->integer('stock')->default(0);  
11    $table->timestamps();  
12});
```

```
1 public function get_product(){  
2     //get all products  
3     $sql = $this->select("products.category_product_id",  
4         "products.image",  
5         "products.title",  
6         "products.description",  
7         "products.price",  
8         "products.stock",  
9         "products.discount",  
10        "category_product.product_category_name as product_category_name",  
11        "suppliers.nama_supplier as nama_supplier",  
12        DB::raw("products.price * (1 - (products.discount / 100)) as final_price"))  
13        ->join('category_product', 'category_product.id', '=', 'products.category_product_id')  
14        ->join('suppliers', 'suppliers.id', '=', 'products.supplier_id');  
15  
16        return $sql;  
17    }
```

# This is not the end...

*Ready to contribute as a Data  
Analyst/BI Intern/Web Developer*

## Let's Connect!

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*Web Version of This Portfolio*

