

Project Title

TemanTani

Year Accomplished

2023

Publication Link

github.com/farfnd/temantani
github.com/farfnd/temantani-frontend

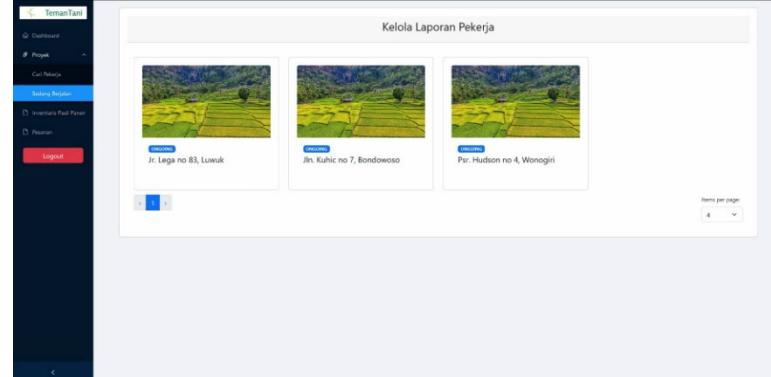
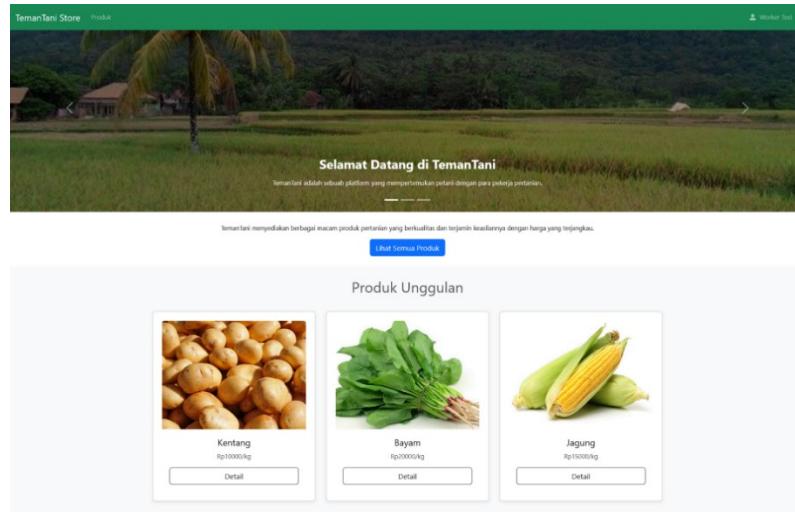
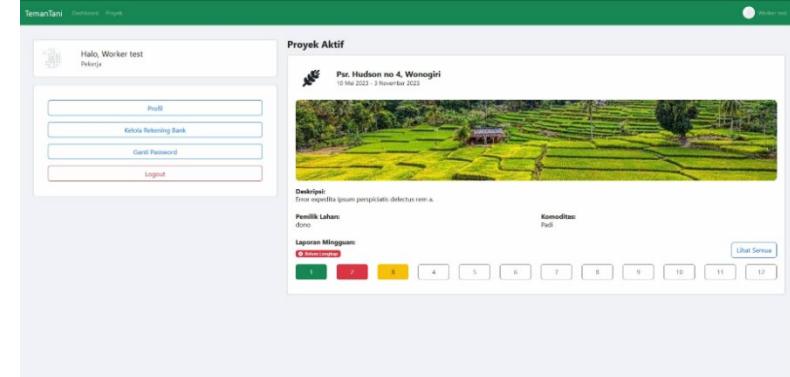
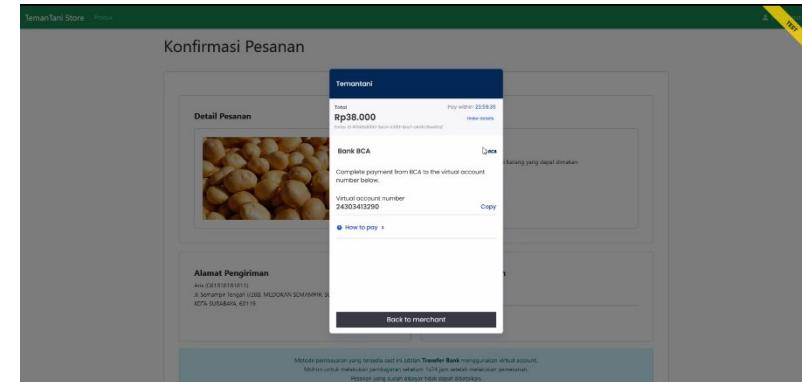
Associated With

Student at the Department of Informatics, Institut Teknologi Sepuluh Nopember Surabaya

Project Description

TemanTani is an agricultural project management application developed as the final project of my undergraduate study. TemanTani facilitates six business processes, namely (1) the search for agricultural land to be used in the project, (2) funding/investment for agricultural projects, (3) the search for farm laborers as cultivators of the land, (4) management of agricultural project work, (5) reporting on the progress of project work by farm workers, to (6) the distribution of crop yields from a project in the form of buying and selling to buyers in need. The part of the TemanTani application developed in my undergraduate thesis focused on aspects (3), (5), and (6) of the business processes, consisting of back-end and front-end apps.

- The back-end server is built with Express and implemented microservices architecture using Apache Kafka as the message broker, which enabled seamless data transfer and processing between different parts of the application, as well as domain-driven design approach in determining the services to be developed, and clean architecture to improve code cleanliness, readability, and maintainability. Additionally, to facilitate secure and efficient transactions, the backend leveraged the Midtrans payment gateway API for secure payment processing, and Google Maps API for shipping distance calculation.
- The front-end application, consuming the API provided by the back-end app, is built with React and utilizes both Bootstrap and Ant Design libraries. It comprises three primary functionalities: the admin console, the worker site, and the agricultural yield store.

Work report management page (Admin)*Agricultural yield store landing page**Worker dashboard**Midtrans payment pop-up on order confirmation*

Project Title

API Kantor PPDB Jatim 2023

Year Accomplished

2023

Role/Position

Back-End Developer

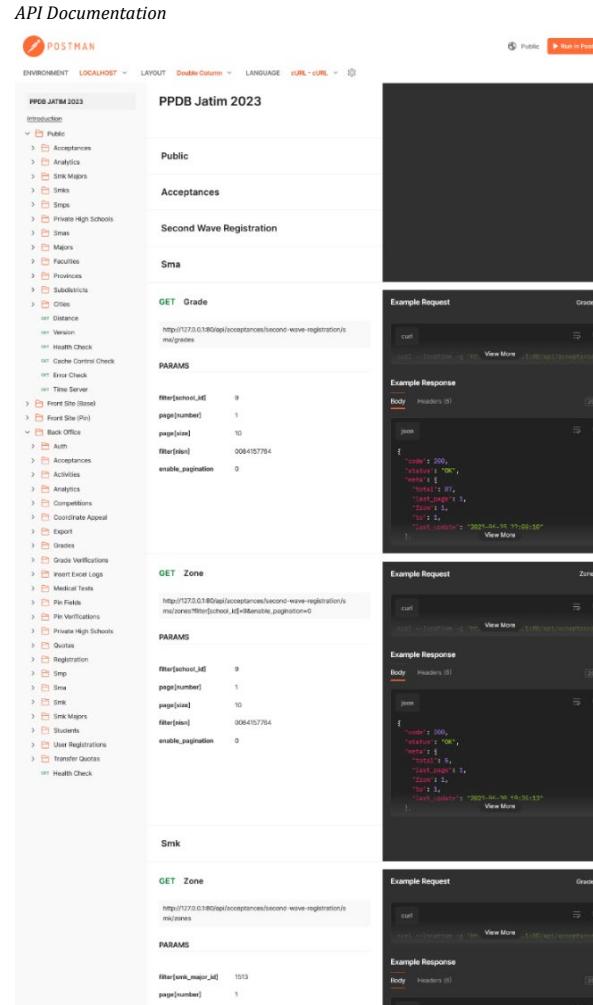
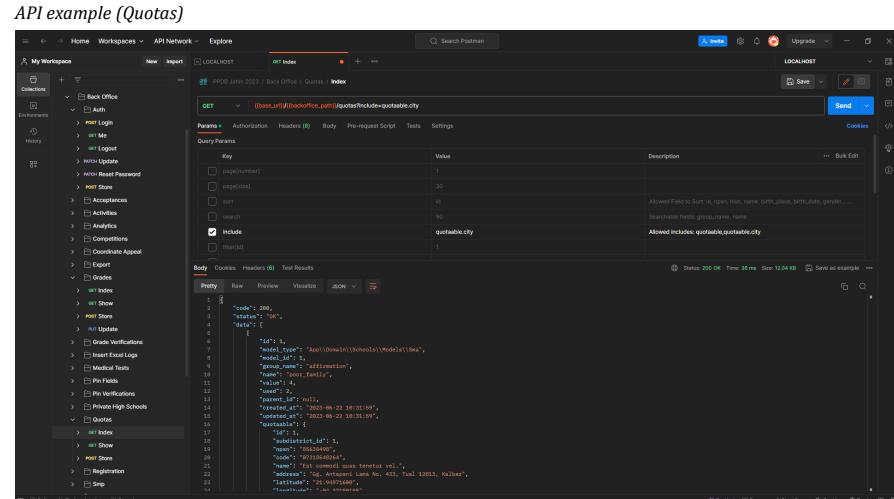
Associated With

Back-End Developer for
PPDB Jatim 2023 at Dinas
Pendidikan Provinsi Jawa Timur

Project Description

As an effort to refactor the whole website for the 2023 New Senior & Vocational High School Student Admission of East Java (PPDB SMA/SMK Jawa Timur), both on the students' and stakeholders' side (office), the development of the back and front end of the website is now developed separately, allowing for a headless architecture. The back end is built using LEMP stack (Laravel, NGINX, MySQL, PHP), and exposes API to be consumed by the front-end web application. Furthermore, in line with modern development practices, the project has adopted Scrum as the framework for iterative and collaborative development, enhancing project management and responsiveness to evolving requirements. This practice enhances the server's ability to efficiently manage user requests, ensuring resilience and performance, even when dealing with a high volume of daily users, often reaching hundreds of thousands or even millions. This is particularly critical during peak periods, such as when student registration is open for a limited duration, typically spanning 2-3 days for each wave.

Project 2 of 14



Project Title

Digitalized Food Quality Management System

Year Accomplished

2022

Role/Position

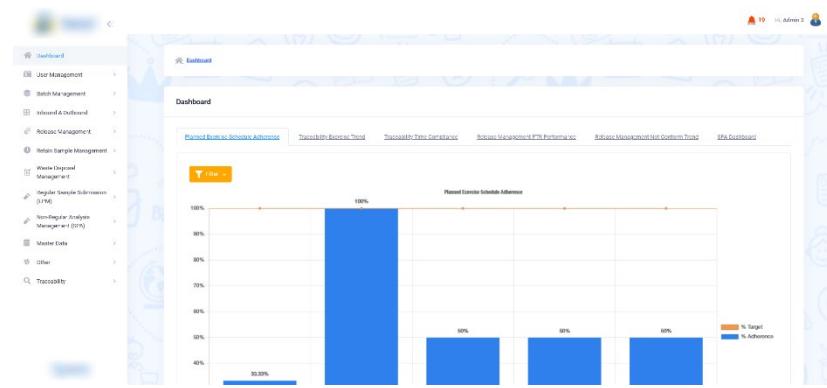
Back-End Developer

Associated With

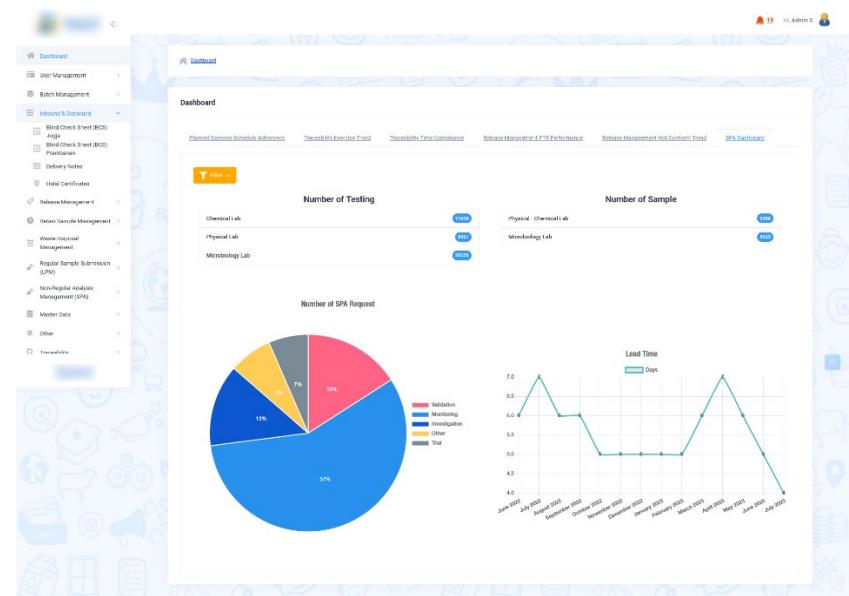
Freelance Software Engineer at
Suitmedia

Project Description

Maintenance of a food quality management system in the form of a web application for a multinational FMCG company, including dashboard development, bug fixing, and user interface adjustments. The web application is developed based on Suitmedia CMS boilerplate using Laravel, Livewire, and MySQL. Features include management of product batch, analysis sample and results, and delivery. API is available to be consumed by the mobile app which serves the same features as the web app.

Dashboard (Planned Exercise)*Vendor batches list*

The screenshot shows a table titled 'Vendor Batches' with columns: ID, Vendor Batch, Material Number - Description, Vendor Material Number - Description, Material Type, Certificate of Analysis, Halal Certificate, LPM, Created At, Updated At, Deleted At, and Actions. There are four rows of data, each with a unique ID and vendor batch number, material numbers, and status information. The sidebar on the left includes modules like Vendor Batch R&M, SAP Batch R&M, P&D S&G/F&G, Fresh Milk & Other Bulk, Inbound & Outbound, Release Management, Regular Sample Submission (RSM), Non-Regular Analysis Management (NRAM), Master Data, Other, and Traceability.

Dashboard (SPA)

Project Title
SIPETA Kedaireka

Year Accomplished
2022-2023

Role/Position
Web Developer

Publication Link
sipeta-kedaireka.com

Associated With
Student at the Department of
Informatics, Institut Teknologi
Sepuluh Nopember Surabaya

Project Description

SIPETA Kedaireka is an innovative information technology-based application built with Laravel to map the potential agricultural land to support the operational and strategic aspects of the farming industry, specifically in Jombang Regency of East Java. It was developed through a collaborative effort between the research team at the Institut Teknologi Sepuluh Nopember (ITS), Universitas Brawijaya (UB), the Jombang District Agricultural Office, and the Pojok Kulon Farmer Group (Gapoktan). This initiative aims to enhance the effectiveness and efficiency of agricultural practices and promote the development of agricultural systems. The project focuses on the precise mapping of agricultural land to empower farmers and agricultural stakeholders in making informed decisions for sustainable and productive farming practices.

Project 4 of 14

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Home page



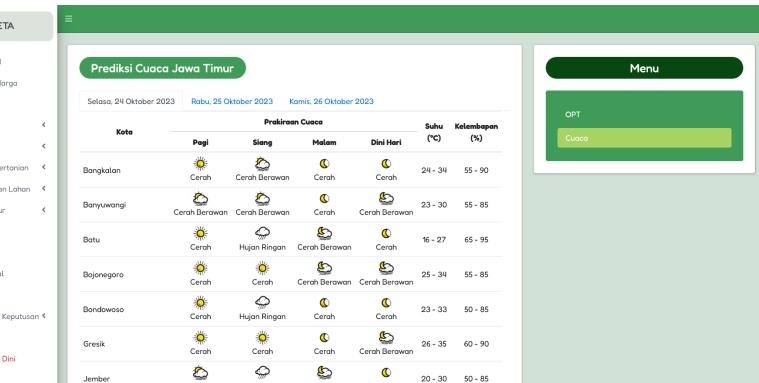
Dashboard page



Agricultural commodity price monitoring page

#	Komoditas	Harga Siskeperbaope	Harga Lokal
1	BERAS BERAS PREMIUM/KG	Rp. 18.888	-
2	BERAS BERAS MEDIUM/KG	Rp. 11.451	-
3	BERAS GULA/	Rp.	-
4	GULA KRISTAL PUTIH/KG	Rp. 14.825	-
5	JAGUNG PIRPLAN KERING/KG	Rp. 7.523	-
6	CABE CABE MERAH KERITING/KG	Rp. 34.988	-
7	CABE CABE MERAH BESAR/KG	Rp. 31.363	-
8	CABE CABE RAWIT MERAH/KG	Rp. 55.445	-
9	BAWANG MERAH/KG	Rp. 18.802	-
10	BAWANG PUTIH SINCO/HONAN/KG	Rp. 21.560	-

East Java weather forecast page



Project Title

Construction Company Website
CMS & API

Year Accomplished

2022

Role/Position

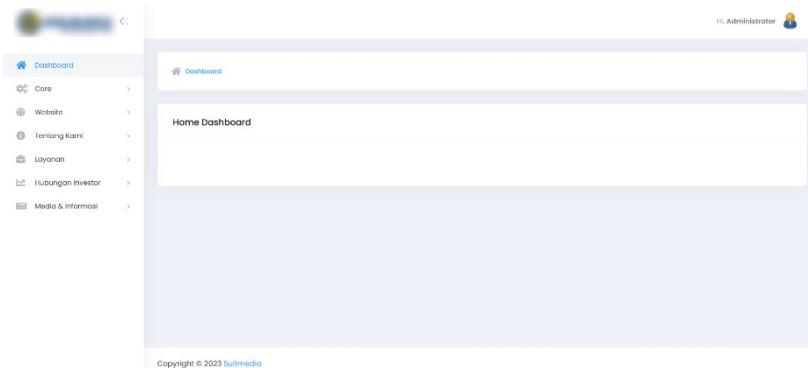
Back-End Developer

Associated With

Freelance Software Engineer at
Suitmedia

Project Description

CMS & API of a construction company website developed with Laravel, Livewire, and MySQL as a part of the company's website renewal project trusted to Suitmedia. The CMS developed is used to simplify storing company profile data such as stakeholders' profiles, services, press releases, and financial reports in the database, which will be delivered by the developed API to be consumed by the front-end website to display data.

CMS Dashboard**Toll roads list**

No.	Name	Panjang (km)	Actions
1	Jakarta - Cikompak	83	
2	Jakarta - Cikompak II Elevated	38	
3	Palimanan - Karaci	26	
4	Batang - Semarang	74	

API example

```

    {
      "name": "Jalan Tol",
      "panjang": 83,
      "lokasi": "Jakarta - Cikompak"
    }
  
```

API documentation

ID	Section	API Title	Data Requirement	Data Adjustment (Value)	Endpoint	Header	Authorization	Input
A1								
1	Banners	[GET] /api/banners				Accept: application/json		
2	Contact Us	[POST] /api/contact/messages				Accept: application/json		
3	Search	[GET] /api/search				Accept: application/json		
4	About Us	[GET] /api/about-us				Accept: application/json		
5	Directors	[GET] /api/directors				Accept: application/json		
6	Board of Commissioners	[GET] /api/board-of-commissioners				Accept: application/json		

Project Title

Financial Research Portal CMS & API

Year Accomplished

2022

Role/Position

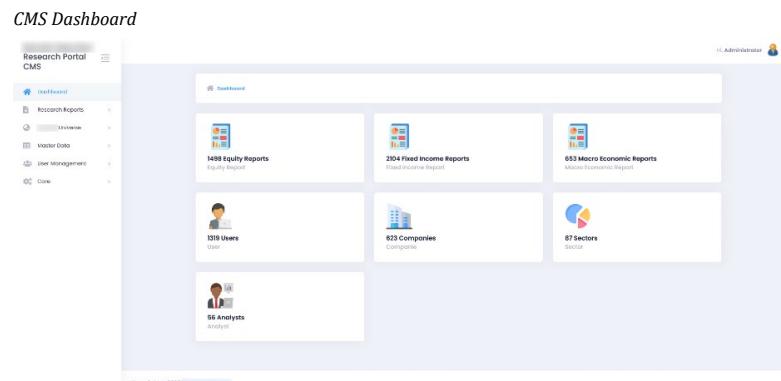
Back-End Developer

Associated With

Back-end Developer Intern at Suitmedia

Project Description

CMS & API for a financial research portal developed with Laravel, Livewire, and MySQL. The CMS developed is used to simplify storing research data such as financial analysis reports and stock recommendations in the database, which will be delivered by the developed API to be consumed by the front-end website to display data. During the development phase, several explorations has also been done in completing client's request, including modification of the layout of downloaded Excel/CSV data in the CMS, multiple selection input library change from Select2 to Choices.js, and watermarking downloaded analysis report PDF with the downloader's email passed through the query parameter of the API.



The screenshot shows the 'Equity Reports' list page with a table of reports. The columns include: ID, Release Date, Title, Report Type, Sector, Stock Code, Company, Analyst, Stock Link, Document, and Actions. The table contains five rows of data, each with a preview thumbnail and download links.

API example

The screenshot shows a POSTMAN interface with a 'Local API' workspace. A 'GET /api/v1/equity_reports/the/sector/companies' request is selected. The 'Authorization' tab shows a 'Bearer Token' type with a placeholder 'Token'. The 'Body' tab shows a JSON payload: '{"sector": "Finance"}'. The 'Headers' tab includes 'Content-Type: application/json'. The 'Test Results' tab shows a successful response with status 200 OK and a JSON body containing company data.

API documentation

The screenshot shows the 'RocketMail Backoffice - API Documentation' page. It features a 'Endpoint Status' section with a green bar indicating success. Below is a table of API endpoints categorized by 'Section' (User, Admin, Product, Order, Payment, Log, Mail, Attachment, User, Admin, Product, Order, Payment, Log, Mail, Attachment) and 'Type' (GET, POST, PUT, DELETE). Each entry provides a brief description, parameters, and responses.

Project Title

React Movies & Games List

Year Accomplished

2022

Publication Link<https://fp-reactjs31-sanbercode.netlify.app/>**Associated With**

ReactJS Web Frontend Course
 Student at Sanbercode
 (Certificate)

Project Description

Final project of ReactJS Web Frontend Course Batch 31 held by Sanbercode, utilizing Ant Design library for the user interface. The project aims to develop a web page providing CRUD (create, read, update, delete) functionality of movies and games data through API endpoints provided by Sanbercode, as well as authentication (register and login) and authorization (role-based access control) system.

Project 7 of 14

Home page

The Home page displays two sections: 'Movies List' and 'Games List'. Each section contains four items with their respective posters, names, release years, genres, and ratings.

Section	Name	Release Year	Genre	Rating
Movies List	Cinderella	2015	Adventure	5.0/10
Movies List	Nowhere	2023	Drama, Thriller	7.0/10
Movies List	Saw X	2023	Horror, Mystery, Thriller	6.0/10
Movies List	Gen V	2023	Action, Adventure, Comedy	6.0/10
Games List	Point Blank	2010	Shooter	5.0/10
Games List	Counter-Strike: Global Offensive	2012	First-Person Shooter	8.0/10
Games List	Mario Kart	2015	Racing	8.0/10
Games List	Assassin's Creed	2020	RPG, Shooter	7.0/10

Movie detail page

The Movie detail page shows a movie poster, title, and detailed information. It includes a 'Review' section with a summary and rating.

The Glory (더 글로리)

Release Year: 2022
 Duration: 60 minutes
 Genre: Drama, Mystery, Thriller
 Description:
 A former victim of school violence plans and seeks revenge on her bullies after taking up a job as a homeroom teacher at the elementary school of the bully leader's child.
 Rating: 9/10
 Review:
 A former victim of school violence plans and seeks revenge on her bullies after taking up a job as a homeroom teacher at the elementary school of the bully leader's child.

Games list page

The Games list page shows a table of game data with columns for No., Name, Genre, Release, Platform, Mode, and Action buttons.

No.	Name	Genre	Release	Platform	Mode	Action
1	Point Blank	FPS	2010	ApkAppi Desktop	Single Player, Multi Player	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	Counter-Strike: Global Offensive	FPS	2012	ApkAppi Desktop	Multi Player	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3	Mario Kart	Racing	2015	PC	Single Player, Multi Player	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
4	Assassin's Creed	Action, Adventure	2020	PC, Steam Deck	Single Player, Multi Player	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Game data form

The Game data form is a modal window for adding new game data. It includes fields for Name, Genre, Platform, Release Year, Image URL, and Mode.

Project Title

Hanaka Classic E-Commerce
Information System

Year Accomplished

2021

Role/Position

Back-End Developer

Publication Link

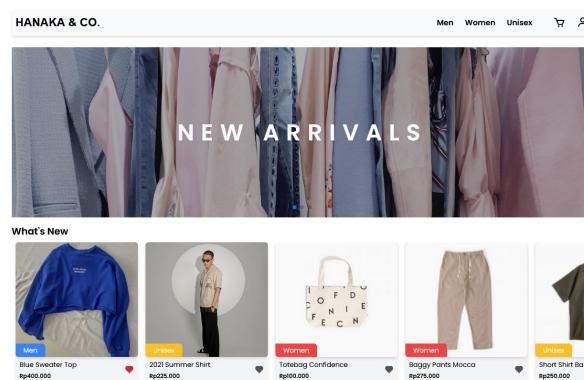
mppl-b05.000webhostapp.com

Associated With

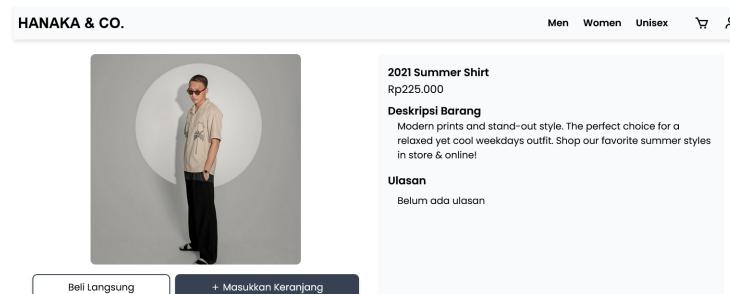
Student at the Department of
Informatics, Institut Teknologi
Sepuluh Nopember Surabaya

Project Description

Redesign of the company e-commerce website of Hanaka & Co, a clothing distro based in Bali, as the final project of Software Project Management course. Built with Laravel, MySQL, and Tailwind CSS. Features for the site administrator include product management and bank transfer proof verification. Features for unregistered user include product listing and details. Features for registered user include adding and removing item from wishlist and cart, updating product amount and checking out products in cart, transaction details and invoice, transaction history listing, and product review submission, in addition to the features for unregistered user.

Home page*Product management page for admin*

#	Nama Barang	Kategori	Rating	Gender	Stok	Harga Jual	Aksi
1	Sweater Logo Fav Maroon	Hoodie	0	Pria	43	Rp335.000	Edit Hapus
2	Short Shirt Basic Leno Army	T-Shirt	0	Unisex	1200	Rp250.000	Edit Hapus
3	Baggy Pants Mocca	Long Pants	0	Wanita	600	Rp275.000	Edit Hapus
4	Totebag Confidence	Accessories	0	Wanita	450	Rp100.000	Edit Hapus
5	2021 Summer Shirt	Shirt	0	Unisex	600	Rp225.000	Edit Hapus
6	Blue Sweater Top	Jaket	0	Pria	700	Rp400.000	Edit Hapus

Product details page*Transaction details page*

Nomor Pesanan	NWQZ17JFXD
Status Pesanan	Belum Lunas
Metode Pembayaran	Transfer Bank
Waktu Pemesanan	14-12-2021 03:01
Alamat Pengiriman	ananda (+62) 8273828738 Jl. Kembang. Pahu, KAB. SAROLANGUN, JAMBI
Pesanan	Totebag Confidence 13 x Rp10.000 Rp1300.000

Project Title

Ed.versity Main Website

Year Accomplished

2021

Role/Position

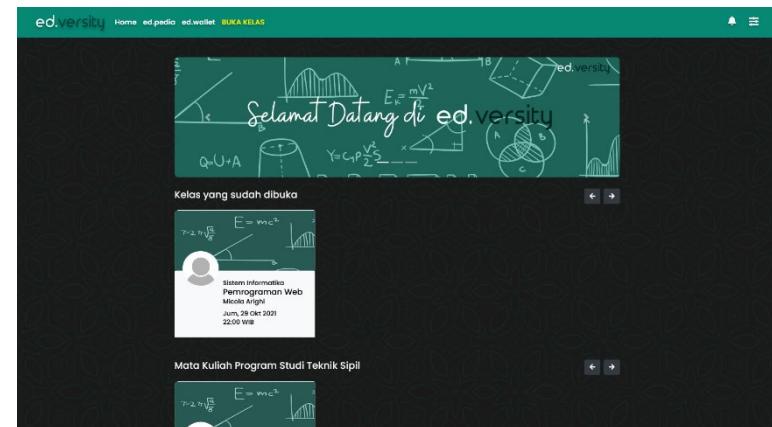
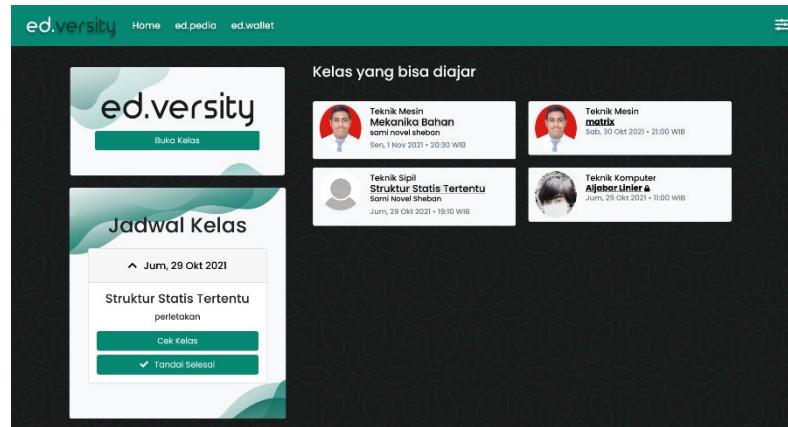
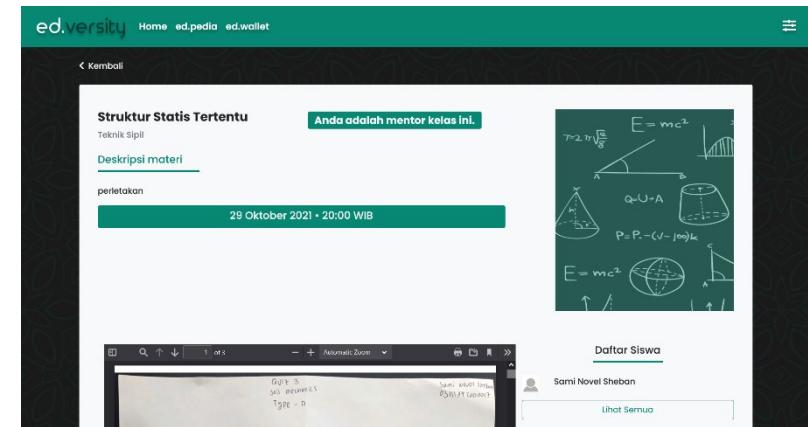
Back-End Developer

Publication Linkedversity.id**Associated With**

Back-end Developer at Edversity

Project Description

Main website of Ed.versity, a startup which aims to provide paid online tutoring services from, by, and for high school and college students, built with Node.js and PostgreSQL. Users are divided into 2 roles: students and mentors. The students can see available classes and the corresponding student's active and done classes, request classes or join in one of the available classes, top up balance, and manage account settings, while mentors can open new classes or accept pending class request to be the mentor of the corresponding class, mark class as done, submit balance withdrawal request, and manage account settings.

Project 9 of 14*Landing page**Student's home page**Mentor's home page**Mentor's class detail page*

Project Title

Ed.versity Admin Website

Year Accomplished

2021

Role/Position

Back-End Developer

Publication Link

admin.edversity.id

Associated With

Back-end Developer at Edversity

Project Description

The administrator console website of Ed.versity, built with Laravel and PostgreSQL, used by the officials from HRD, fundraising, and operational division. Features for HRD division include mentor data management. Features for fundraising division include top-up transfer verification and mentor balance withdrawal approval. Features for operational division include class management and class completion verification.

HRD div. mentor management page
Fundraising div. top-up verification page
Fundraising div. withdrawal requests page
Operational div. class management page

Project Title

Kantor PPDB Jatim

Year Accomplished

2021-2022

Role/Position

Web Developer

Publication Linkkantor.ppdbjatim.net**Associated With**

Web Developer for PPDB Jatim
2021-2022 at Dinas Pendidikan
Provinsi Jawa Timur

Project Description

A website for the stakeholders (e.g. the headmasters and government staffs) of the 2021-2022 New Senior/Vocational High School Student Admission of East Java to manage the students' admission process, built with CodeIgniter 3 and MySQL. Some of the features offered in the website include students registration data management, school quota management and monitoring, students' registration file verification, registration acceptance and rejection, registration PIN management and monitoring, and students' scores upload. Website is only accessible during the admission period (April – July every year).

School quota management page

Kantor PPDB Jatim 2021

Pagu SMA NEGERI 1 SURABAYA

Jumlah Rombel Kelas I	7
Jumlah Rombel Kelas II	8
Jumlah Rombel Kelas III (PPDB)	8
Jumlah Siswa per Rombel Kelas IV (PPDB)	34

Student registration data verification page

Dinas Pendidikan Provinsi Jawa Timur

Verifikasi Data Siswa

A. Data Pribadi Calon Peserta
NISN : 0063580108
Nama Calon Peserta : TABITA SYELIA RUDIANE
Tanggal Lahir : 2006-06-14
Jenis Kelamin : Perempuan
Sekolah Asal : SMP KRISTEN YBPK 4
NPSN Sekolah Asal : 20532737
Status KK : KK Jatim Kurang Dari 1 Tahun

Registration validation (acceptance & rejection) page

Kantor PPDB Jatim 2021

Validasi Penerimaan Jalur Prestasi Akademik

Action	NISN	Nama Siswa	Umur	Total Skor Prestasi	Rerata Nilai Rapor
Bantakan validasi	0067850688	WINDHY AULYA RAMADHAN	15 tahun 6 bulan 22 hari	8	87,34
Cek Berkas	006405765	Nolia Khalisa Amani	15 tahun 4 bulan 16 hari	0	93,83
Cek Berkas	0068191607	NANDA ALIEFRA RAUDHATUN NISA	15 tahun 3 bulan 22 hari	0	89,00
Cek Berkas	00688923011	Syalla Alimra Purwanto	15 tahun 5 bulan 21 hari	0	88,37

School admission quota monitoring page

Kantor PPDB Jatim 2021

Monitoring Pagu Sekolah

Pagu Tahap 1 | 69

SISA PAGU TAHAP 1 = 47 ANAK
DAPAT D'MANFAATKAN UNTUK MENAMBAH JUMLAH SISWA YANG DITERIMA, SEBELUM PAGU DIAUHKAN KE TAHAP SELANJUTNYA.

Jalur Prestasi Akademik	Jalur Prestasi Non Akademik	Jalur Pindah Tugas
<ul style="list-style-type: none"> Pagu 2 Peserta 4 Sudah Divalidasi 1 Sudah Ditarima 0 	<ul style="list-style-type: none"> Pagu 21 Peserta 21 Sudah Divalidasi 7 Sudah Ditarima 0 	<ul style="list-style-type: none"> Pagu 0 Peserta 0 Sudah Divalidasi 0 Sudah Ditarima 0

Project Title

CoFilm+ Indonesia Company Website

Year Accomplished

2021

Role/Position

Back-End Developer

Associated With

Web Developer Intern at CoFilm+ Indonesia

Project Description

Redesign of the company website of CoFilm+ Indonesia, a startup company providing sterilization and permanent antivirus coating service as a protection against Covid-19. Built with Laravel, MySQL, and Tailwind CSS. Features include products listing, product serial number checker, company profile, and certifications and lab test results listing.

Home page
Product serial number checking page
Company profile page
Certifications and lab test results listing page

Project Title

Periksa.in

Year Accomplished

2021

Role/Position

Back-End Developer

Publication Linkperiksa.in.ariesta.club**Associated With**

Student at the Department of Informatics, Institut Teknologi Sepuluh Nopember Surabaya

Project Description

A website to report and check the phone number and bank account number of scammers built with Laravel and MySQL as the final project of the Framework-Based Programming course. Features include phone number and bank account number reporting, report disclaiming, reports and disclaimers verification for admin, and account management.

Project 13 of 14

Bank account number reporting page

LAPORKAN PENIPUAN

Laporkan penipuan yang terjadi agar yang lainnya tidak terkena penipuan yang sama.

LAPORKAN NOMOR REKENING

Informasi Rekening

Nama Pemilik Rekening
Pilih Bank... Nomor Rekening

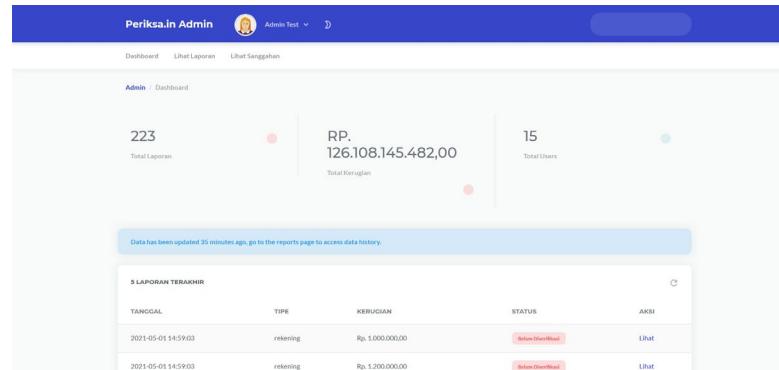
Kontak Pelaku
Pilih Platform... Kontak

Kronologis

User reports history page

RIWAYAT PELAPORAN ANDA

ID	Tipe	Nomor	Waktu Pelaporan	Status	Aksi
90	Rekening	6400370889	2021-06-29 10:16:17	Belum Terverifikasi	
93	Telepon	(567) 240-9373	2021-06-29 10:16:17	Belum Terverifikasi	
131	Telepon	+1.804.509.1898	2021-06-29 10:16:17	Belum Terverifikasi	
140	Telepon	(818) 524-3706	2021-06-29 10:16:17	Belum Terverifikasi	

Admin dashboard page*Report details and actions page*

Periksa.in Admin / Lihat Laporan Rekening

Detail Laporan

INFORMASI LAPORAN

Nama Pemilik Rekening	John Doe
BANK	Bank BNI
Nomor Rekening	989898989898
Platform (ponsel)	WhatsApp (08123456789)
Kronologis	test
Total Kerugian	Belum Tersedia
File Pendukung	Data tidak ditemukan
Status Verifikasi	

Diverifikasi Tangguhan Kembali

2021 © Periksa.in

Project Title

Katabakuwu

Year Accomplished

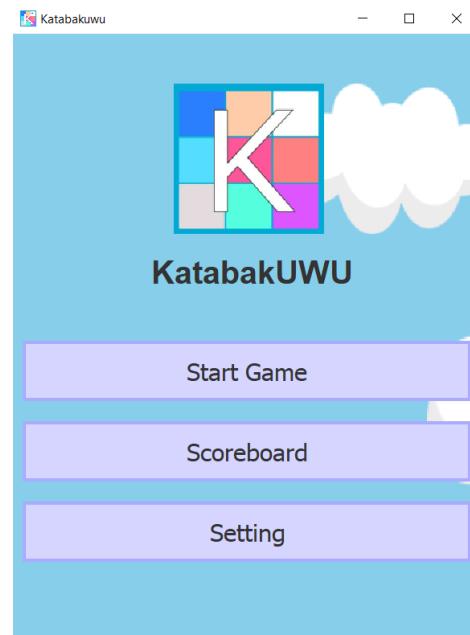
2020

Role/Position

Developer

Publication Linkgithub.com/asteriskrin/katabakuwu**Associated With**Student at the Department of
Informatics, Institut Teknologi
Sepuluh Nopember Surabaya**Project Description**

A word-guessing game in Indonesian language built with Java as the final project of the Object-Oriented Programming course (2020). Players will get to guess the missing letters of a formal word taken from KBBI (The Great Dictionary of Indonesian Language) with hints available. Player's HP (Health Point) will increase on correct guess and vice versa. Game is endless and ends when the player ran out of HP, or simply wanted to end the game. Player's score is then submitted to a public scoreboard which is visible from the home screen, when a game session ends, or with a web browser. Other features include sound volume control setting

Home screen*Gameplay*