

Artwork/Project Title  
Ruby-chan


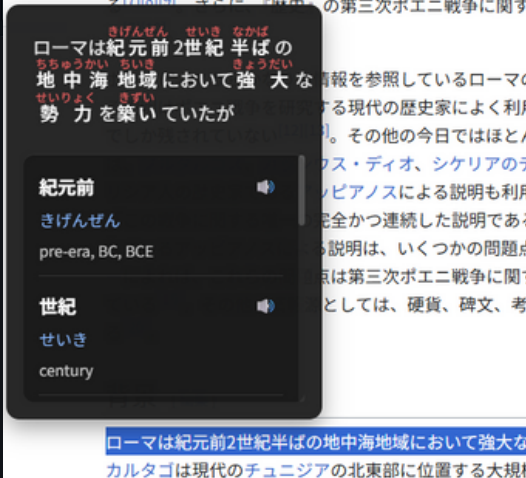
Description  
Ruby-chan is a self-initiated Chrome Extension that displays furigana and English definitions when users highlight Japanese text. Inspired by my interest in the Japanese language, I developed this tool to assist learners in reading kanji-heavy websites without built-in support. The extension improves accessibility for language learners by providing in-browser definitions through a responsive popup interface. I independently designed and implemented the full system using Kuromoji.js for tokenization and the Jisho API for bilingual dictionary data. Through this project, I strengthened my skills in Chrome extension architecture, asynchronous interaction, and user-focused product development while solving a real personal problem. I also had the opportunity to create something I genuinely needed myself.

Project 1 of 5

Year Accomplished  
2025

Role/Position  
Developer

Publication Link  
[Github Link](#)

Screenshot	Description
	Highlight Japanese text and see real-time furigana and English definitions
	Click to hear how each kanji word is pronounced.

Paisal Tanjung

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Undergraduate Student - 5<sup>th</sup> Semester

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## Artwork/Project Title

WellBee

## Description

*WellBee is a health recommendation platform developed as a group project for a Software Engineering course assignment. The system is designed to help university students make healthier lifestyle decisions by calculating BMI and generating personalized nutrition and exercise plans based on WHO standards, while integrating location features to help users discover nearby gyms, parks, and healthy food options. The platform empowers students to track their progress, access tailored recommendations, and make informed choices for their well-being. As the Project Leader, I directed product development, designed the system architecture, and implemented the full-stack solution, including the BMI calculator, recommendation logic, and user progress dashboards. This project expanded my full-stack development experience and taught me how to translate health guidelines into accessible digital solutions.*

Project 2 of 5

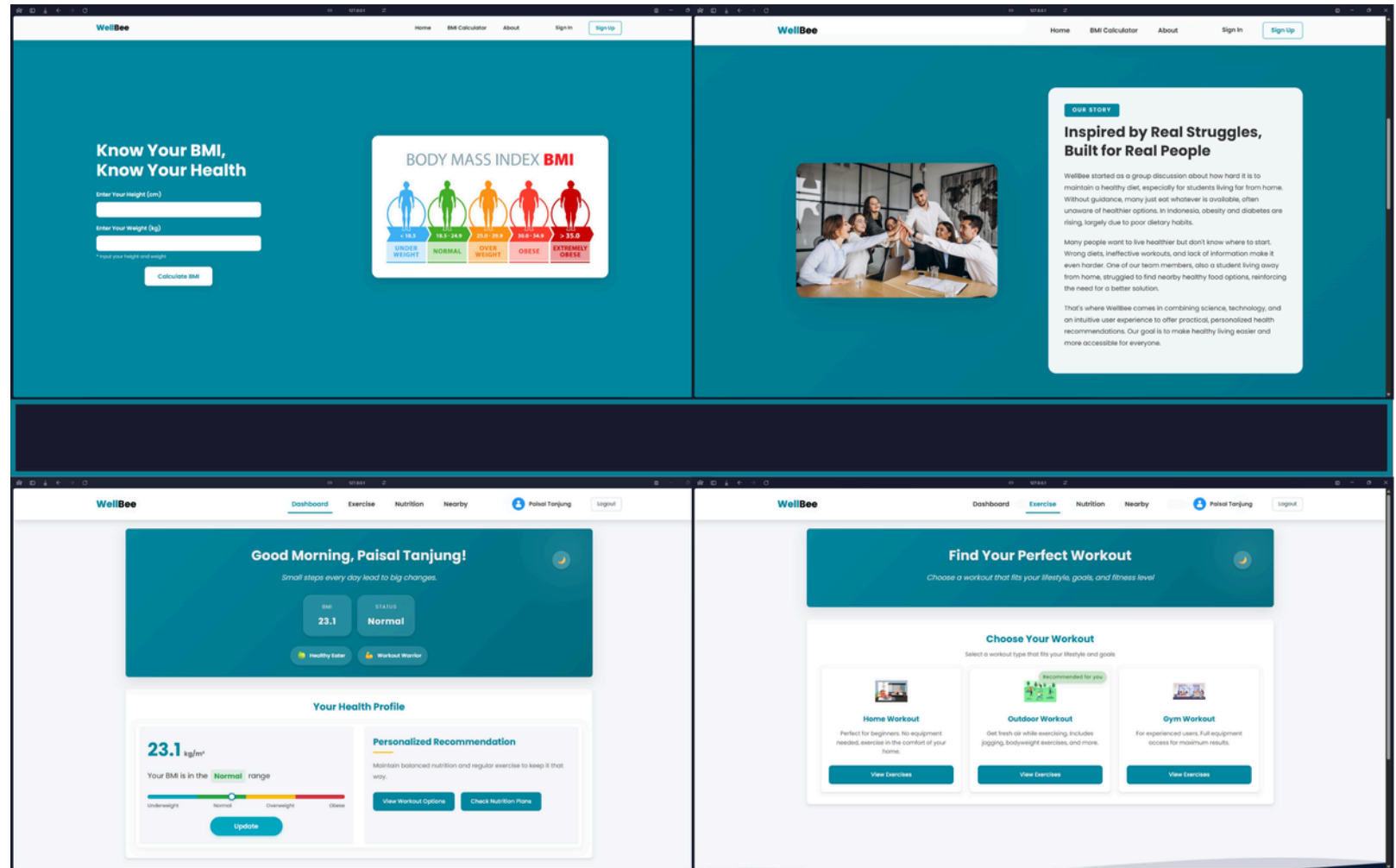
Year Accomplished  
2025

## Role/Position

Project Leader & Full-Stack Developer

## Publication Link

[Github Link](#)



Paisal Tanjung

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Artwork/Project Title  
Smart Pedestrian Dynamic  
Traffic Light

Year Accomplished  
2024

Role/Position  
Project Leader &  
Developer

Publication Link  
[Live Demo](#)

Description  
The Smart Traffic Light System was developed as a group project for an Artificial Intelligence course assignment. This system dynamically adjusts green light durations at pedestrian crossings using fuzzy logic and real-time traffic data. It integrates TomTom Traffic and OpenCage Geocoding APIs and features a Streamlit interface that simulates both GPS-based and manual input modes. The system enhances urban walkability by minimizing pedestrian wait times and improving compliance with crossing signals through adaptive, data-driven timing. As Team Leader, I designed the fuzzy inference model, led API integration, and managed the deployment workflows. Through this project, I strengthened my technical skills in AI, fuzzy logic, and collaborative problem-solving while delivering scalable real-world solutions.

Project 3 of 5

### Durasi Lampu Lalu Lintas Dinamis dengan Fuzzy Logic

Pilih Metode

☒ Otomatis (GPS)

☐ Manual (Database)

Lokasi: Unknown City, United States (Latitude: 45.5946, Longitude: -121.1787)

Jumlah Pejalan Kaki

019100

Waktu (Jam)

01723

Ambil Data Lalu Lintas (Otomatis)

Kecepatan Saat Ini: 36 km/h

Kecepatan Normal: 36 km/h

Tingkat Kepadatan: 1

Durasi Lampu Hijau: 26.61 detik

Note:

- Kecepatan Saat Ini: Kecepatan rata-rata kendaraan yang sedang bergerak di segmen jalan tersebut pada saat ini.
- Kecepatan Normal: Kecepatan yang dianggap ideal jika lalu lintas lancar tanpa hambatan.
- Tingkat Kepadatan: Nilai 1 menunjukkan kondisi sangat padat, dan 0 berarti jalan bebas hambatan.

Data Sources: Traffic data and congestion levels are sourced from the TomTom Traffic API, providing real-time traffic information. Location and city details are retrieved using the OpenCage Geocoding API, offering accurate geographical data based on coordinates.

### Durasi Lampu Lalu Lintas Dinamis dengan Fuzzy Logic

Pilih Metode

☐ Otomatis (GPS)

☒ Manual (Database)

Pilih Lokasi

Kemanggisan Binus Anggrek

Slipi Petamburan

Simpang Tiga Batusari (Lampu Merah)

Stasiun Gambir

Stasiun Jakarta Kota

Stasiun Sudirman

Bundaran HI

Koordinat: Latitude -6.200913, Longitude 106.781995

Kecepatan Saat Ini: 23 km/h

Lebar Jalan: 12 meter

Durasi Lampu Hijau: 11.94 detik

Note:

- Kecepatan Saat Ini: Kecepatan rata-rata kendaraan yang sedang bergerak di segmen jalan tersebut pada saat ini.
- Kecepatan Normal: Kecepatan yang dianggap ideal jika lalu lintas lancar tanpa hambatan.
- Tingkat Kepadatan: Nilai 1 menunjukkan kondisi sangat padat, dan 0 berarti jalan bebas hambatan.
- Lebar Jalan: Lebar jalan berdasarkan data lokasi yang telah diatur.

Data Sources: Traffic data is sourced from the TomTom Traffic API. Location information is predefined based on manual input or stored in a location dataset.

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**Artwork/Project Title**

Life is Precious

**Description**

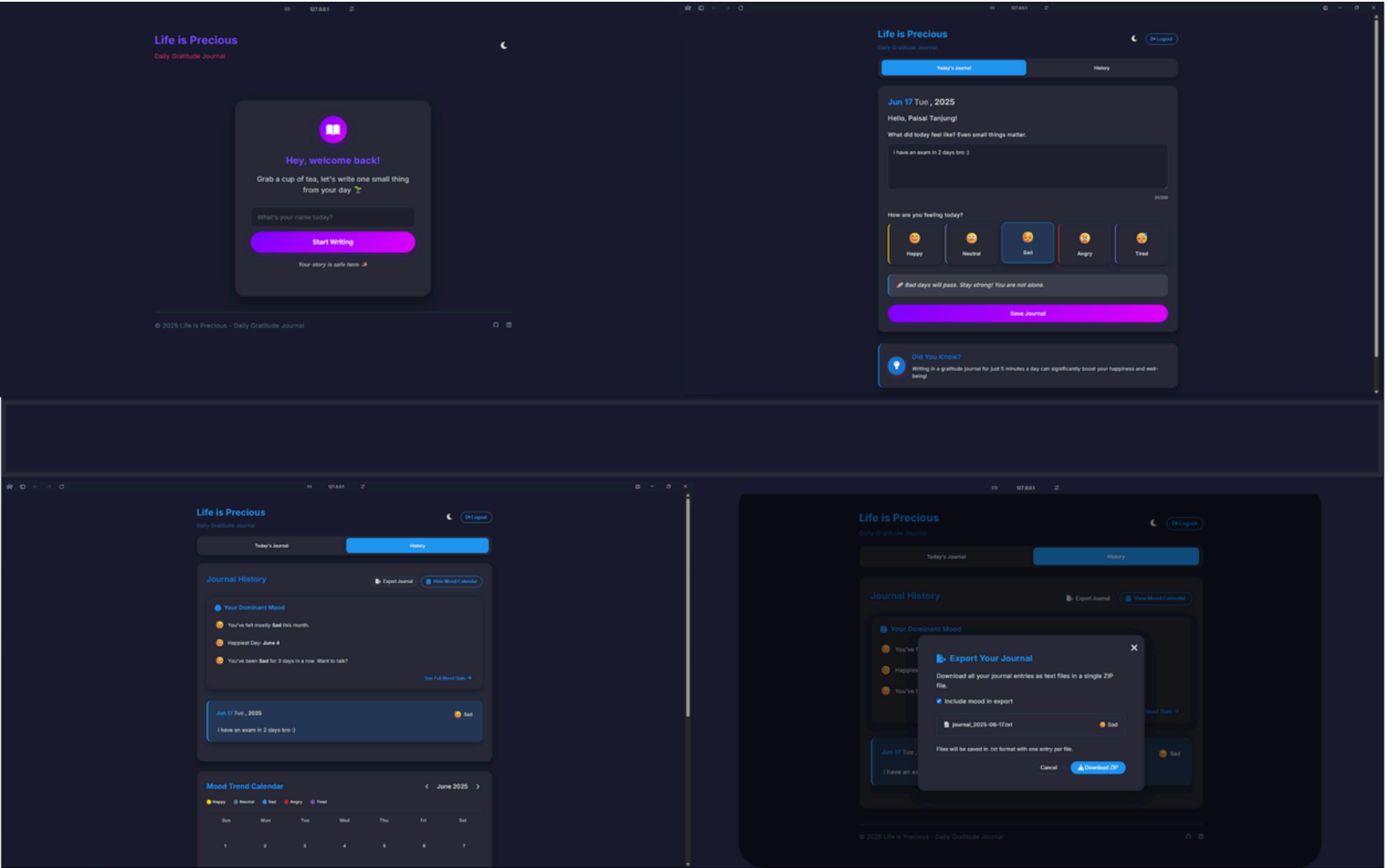
*Life is Precious is a fully self-initiated web application designed to encourage daily reflection and emotional well-being. The app allows users to journal, track mood patterns, and receive motivational feedback while ensuring privacy through local data storage. It promotes consistent self-reflection and emotional awareness, helping users monitor their mental well-being over time. I independently designed and developed the entire system, including responsive user interface, dark mode support, calendar-based mood tracking, and simple analytics. This project deepened my ability to design empathetic user experiences while building functional, emotionally supportive digital tools.*

Project 4 of 5

**Year Accomplished**  
2025

**Role/Position**  
Developer

**Publication Link**  
[Live Demo](#)



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**Artwork/Project Title**  
BNCC TPM Final Project –  
Hackathon Website  
Development

**Year Accomplished**  
2024

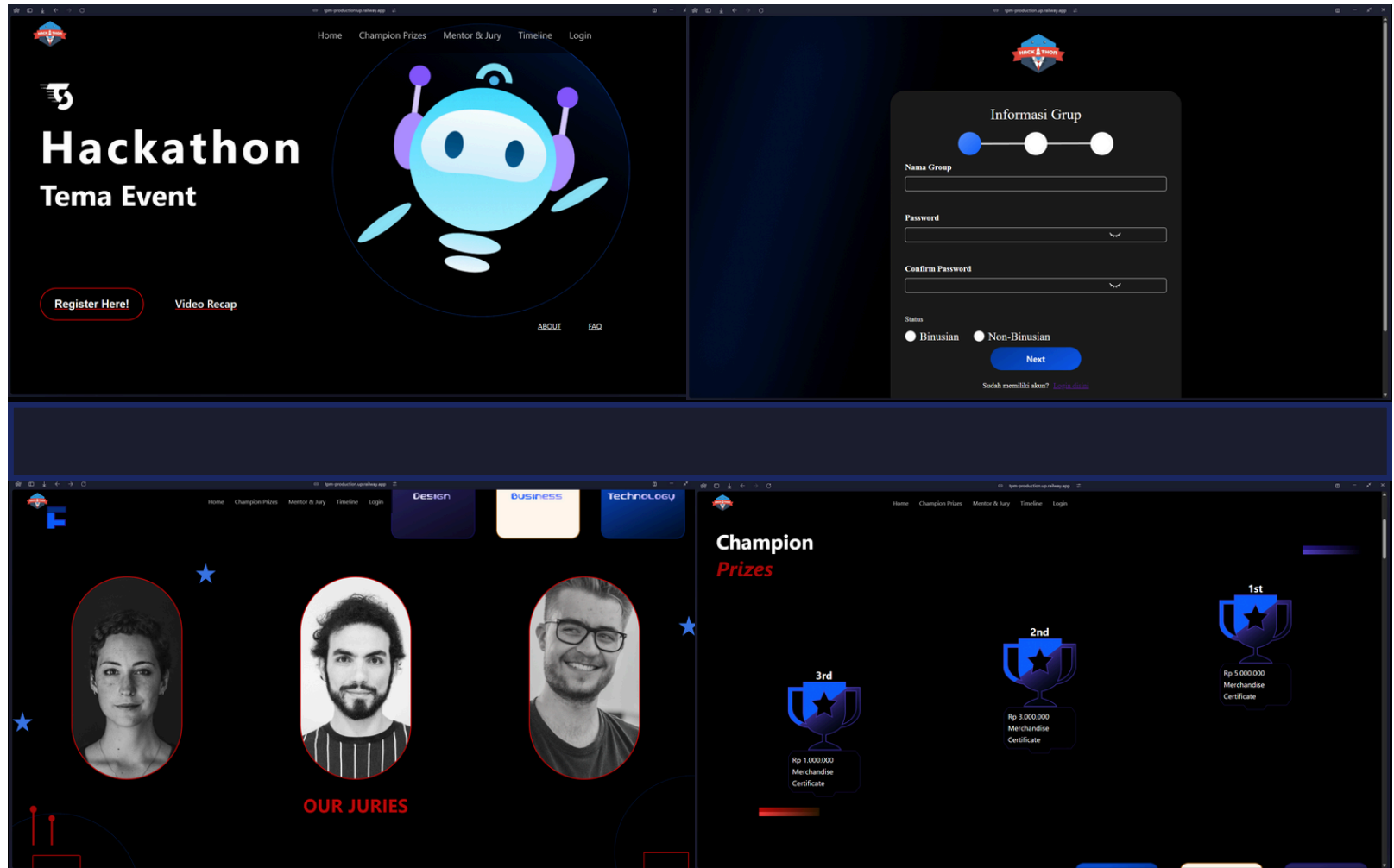
**Role/Position**  
Front-End Developer

**Publication Link**  
[Live Demo](#)

## Description

The TPM Hackathon Website was developed as part of BNCC's Technology Project Member (TPM) training program, simulating a real-world event management system. The platform included landing pages, login systems, and registration forms, providing a practical simulation of building a functional event management system under realistic team-based project constraints. I contributed as a Front-End Developer, designing and developing key interface components including landing pages, authentication forms, and responsive layouts. Through this project, I developed strong technical skills in responsive web design and front-end component development while improving my teamwork, time management, and communication skills within a structured collaborative environment.

Project 5 of 5



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