XP FARMING

FIX THE

DOCS

Track 3: Industry Collaboration

Team Members

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Problem Statement

What is the main focus on this project?

01

Time Consuming

Developers spend too much time writing long documentation.

02

Hard to read

Developers/users are usually lazy to read lengthy documents.

03

Search Issue

Developers hard to find needed info in the documentation.

04
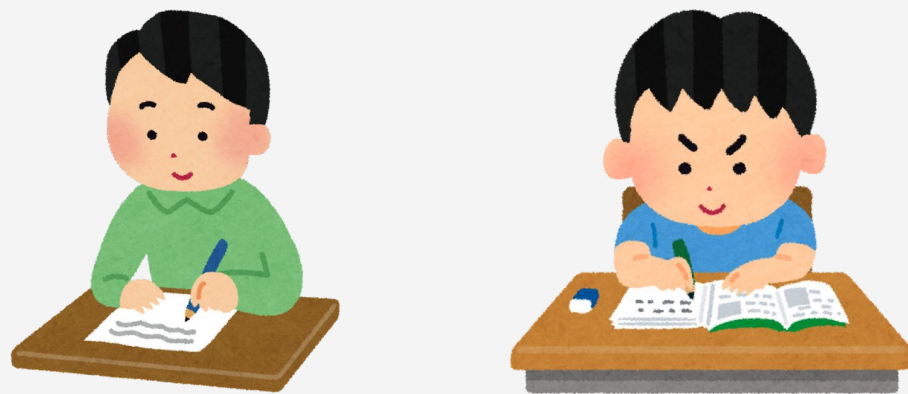
Visualize Clarity Issue

Documentation lack of clear visuals creates confusion.

Main Function

Simplify Writing

What are the features of this function?

◆ **Auto-generate starter docs**

Users upload their project files into the system. The tool scans the codebase and automatically generates documentation.

◆ **Category Button**

- Modules Relationship
- Function Documentation
- Tech Stack Documentation
- Validation Checklist
- Setup and Installation Guide

Main Function

Speed Up
Reading

What are the features of this function?

- **Visualize Diagram**

  Auto-generate flowcharts / system workflow.

- **Download funtion**

  Export the generated documentation in multiple formats (Word / PDF).

- **AI Chatbot**
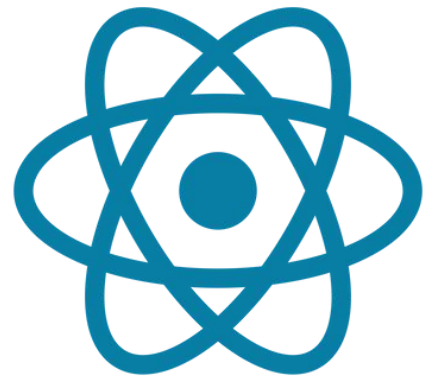
  Search, summarize, and answer questions from docs.

Prototype

Of Our System

START

Tech Stack

Frontend
- React (modern & nice UI)

AI / NLP
- Groq (API Key) chat box & summarize

Backend
- Python FastAPI (easy AI integration)

Database
- Microsoft SQL SSMS

Diagram
-Draw io (clear diagram of system flow）

Impact

01 **Saves developer time**
Developers spend too much time writing long documentation.

02 **Improves code understanding**
Provides a platform for developers to understand the code as they join the company.

03 **Efficient Reviews**
Well-documented code minimizes repeated explanations.

04 **Boosted Productivity**
Engineers spend less time searching and more time coding.

Further Enhancement

If the Time Permits

01 **Maintenance**

- Detect outdated docs vs code

- Highlight the edited part and show the previous version

02 **Privacy**

- Provide upload by local file path and CI/CD pipeline to ensure privacy

- Provide user linked to git hub

Conclusion

- Clear problem statement with defined challenges.

- Unique functions to help developers understand code.

- Confident in building a stable solution.

- Ready to move into development and make it real.