

DevOps Project

supergit

By

22MIA1064(Yasir Ahmad)

22MIA1049(Naveen Nidadavolu)

22MIA1034(Namansh Singh Maurya)

22MIA1074(Gouri Ramachandran)



As AI Agents continue to transform software development and production,
we're looking to harness their power within Git

supergit is a suite of AI agents
that integrate seamlessly into
any codebase and enhance
the capabilities of the
workflow.



*** * key features**

- **Automates code generation and error fixing**
- **Ensures high-quality code with automated reviews**
- **Facilitates easy testing with auto-generated test cases**
- **Creates detailed documentation of the project**



strengths of **supergit**

Large Language Models

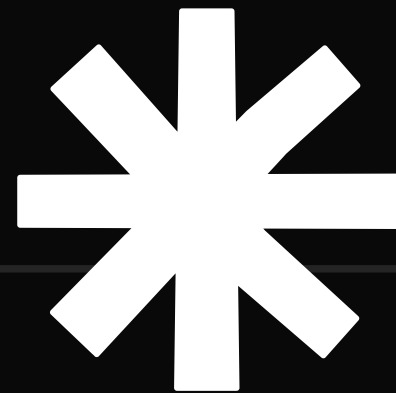
The core concept for the supergit relies on application of large language models in understanding and debugging the code and interact with the tools available.

Agents Pipeline

These agents can be used to setup a custom pipeline automations which using github actions workflow.

Modularity

All the supergit agents are capable of working independently and with other agents as well, allowing the user to create and customize the functionality as they wish.



agents suite

generator

the code generator agent generates the code in the workspace itself and pushes the file to the repository branch.

tester

the code tester will test the code that are committed or issued for the errors in the code

critique

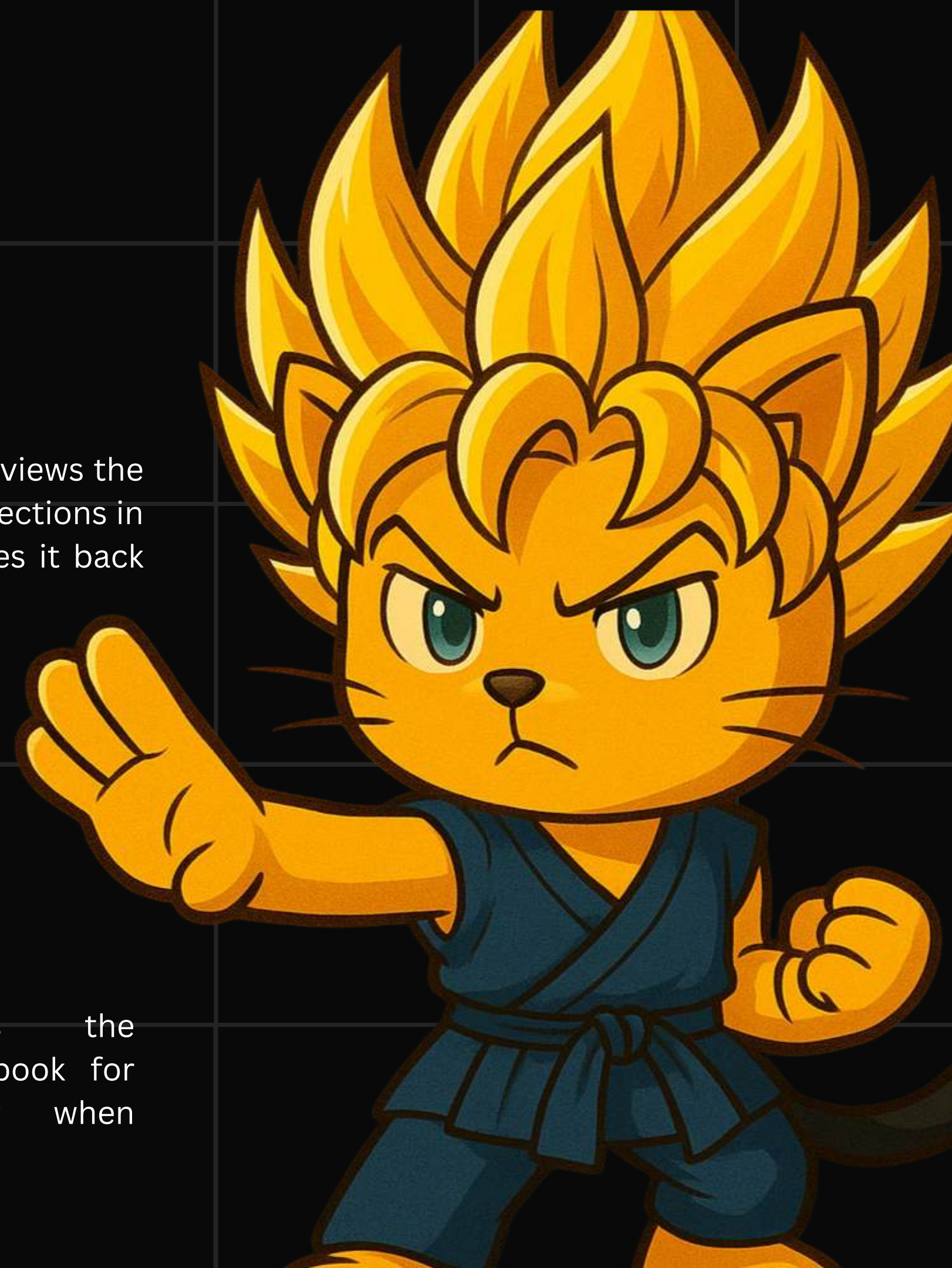
the code critique will check all the codes in the desired path and give the output a with the code having comments in it stating which line has errors in it

reviewer

the code reviewer agent reviews the given code and makes corrections in the code and finally pushes it back into the repository branch.

doc-keeper

automatically creates the documentation and runbook for the entire repository when triggered.



supergit sage

Chatbot for developers

Automatically access the codebase and prepare a context for the conversation about the same with the developers.

Customizability

Behaviour of the agent can be customized as per the requirements of the client

Privacy and Security

The code can be adapted to work with local LLM deployment to ensure the privacy and security of the organization's properties





supergit

DEMO TIME

Thankyou

supergit

