

Keep your
branch
synced with
base branch
frequently

Keep your
colleagues
updated about
your work
in daily standup.

Create
PR to
deploy
changes to dev

100
conflicts. Because
just a moment
ago a PR from
Sam from another
department
got merged to dev.



LowCode

Know your code!
Understand your team!

Team: low-key

Problem Statement

Humans and code ...

- Increase in code = Decrease in code quality
- Hard to know what's being done when the team gets big
- Development takes more time as we move fast
- Time spent in code is unknown
- Volatile code is hard to detect
- Trends over time isn't known
- Hotspots and lowspots

Introducing “LowCode”
Gather team and code insights as it arrives!

What is LowCode?

Install and forget!

- VS Code extension to track coding trends and visualize insights
 - Track changes and time spent in each file
 - Analyze trends in collected data
 - Suggest improvement areas over trending data using AI
 - Gain valuable insights into both team members' and your own coding habits
 - Detect anomalies in coding patterns that may otherwise go unnoticed

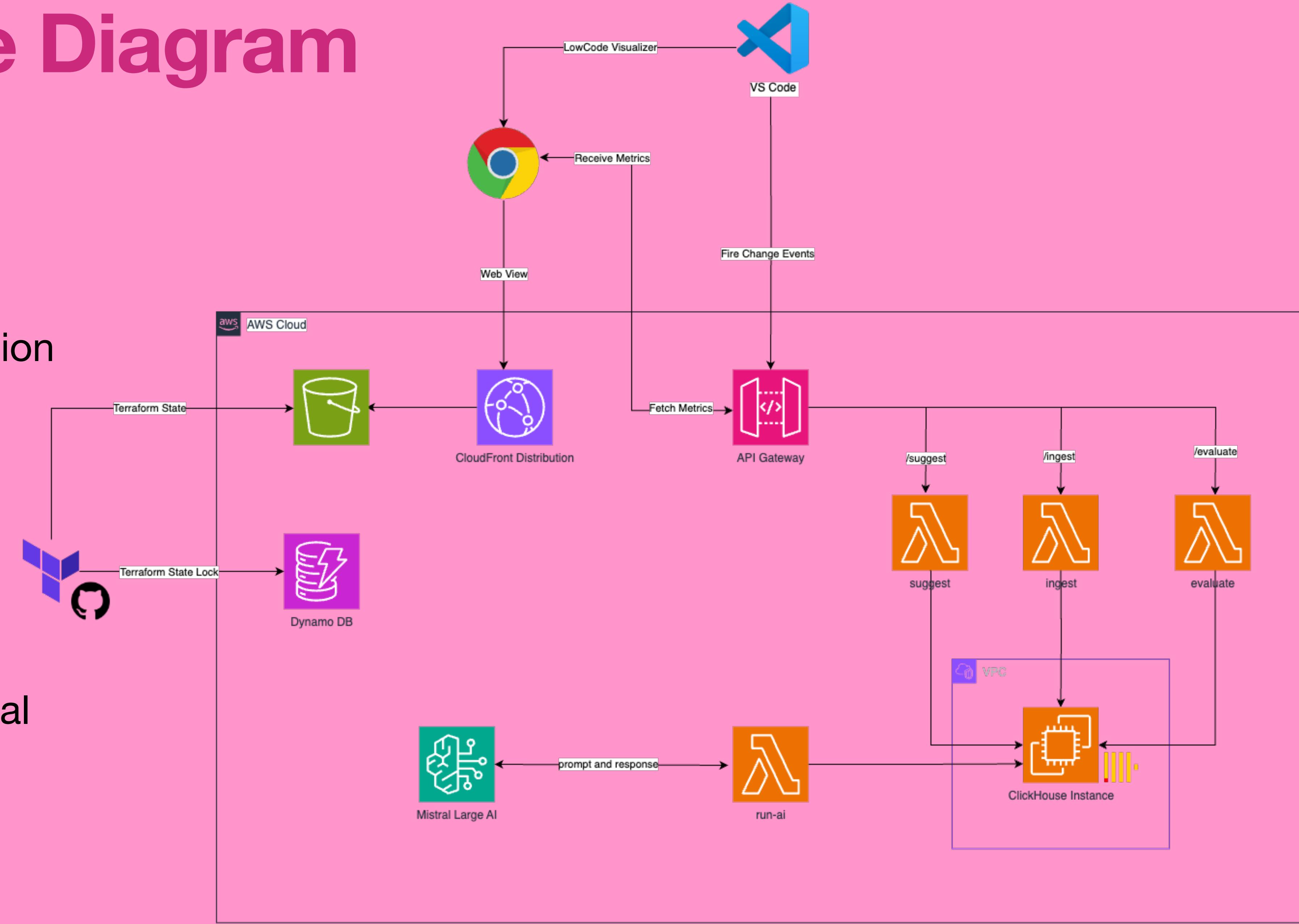
Architecture

Ingest – Analyze – Visualize – Summarize

- Ingest VS Code “document” change events through VS Code Extension (TimeSeries Data)
- Pipe streams of data into Clickhouse - a realtime analytical database through AWS API Gateway
- Aggregate events based on user coding sessions
- Generate metrics per document/code: “Time Spent”, “Edits”
- Visualize the metrics through a TreeMap visualizer
- Metrics are also sent through AI model to generate complex reasoning on possible improvement areas in code and team members

Architecture Diagram

- AWS Services In Use
 - CloudFront Distribution
 - API Gateway with Lambda
 - EC2
 - DynamoDB
 - AWS Bedrock (Mistral Large)
 - S3



Demo

VS Code Extension

Extension: low-code

low-code v0.0.7

low-key

Find low spot in the code.

Disable Uninstall ⚙

This extension is enabled globally.

DETAILS FEATURES CHANGELOG

Low-Code

Gather team and code insights as it arrives!

Description

Find out the low code spot in your code base.

Just continue with your workflow like usual. Leave the analysis to us.

Features

- Sliently runs on the background
- Low code detection using your normal activity.
- Find out your code's low spoit with data visualization.

Categories

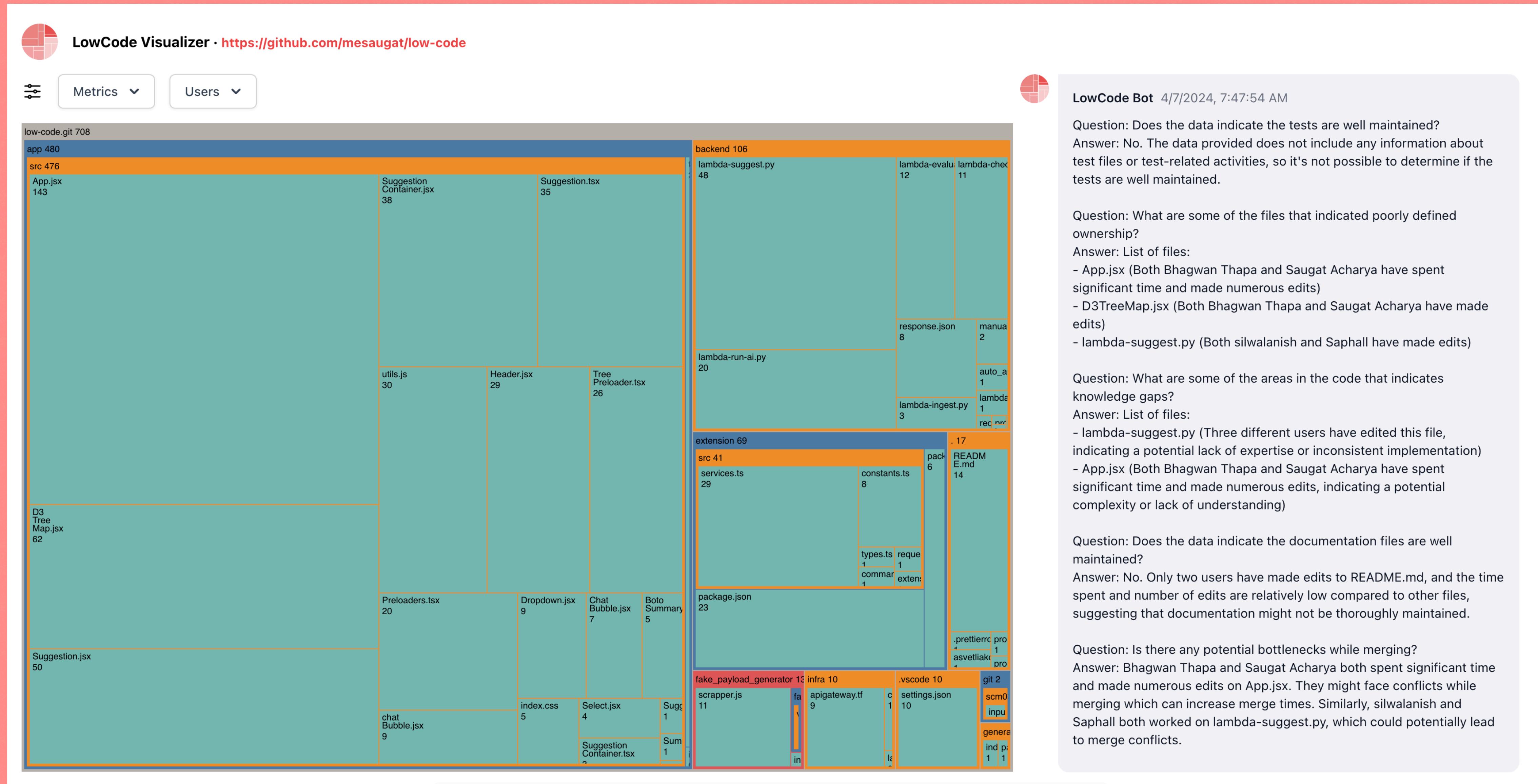
Other

More Info

Last updated 2024-04-07, 08:16:25

Identifier low-key.low-code

Visualizer



“LowCode Visualizer”

https://d1qz38fr588bqj.cloudfront.net/?repo_url=github.com/mesaugat/low-code.git

Boundless Possibilities

Here we go!

- Integrate test coverage with LowCode insights
- Correlate outages with LowCode insights and predict future lowspots
- Find relationship between files and how they are correlated. Does one piece of code affect another?
- Compare historical metrics to plan effective collaboration and timeline
- Find code that is susceptible to vulnerabilities and hasn't been changed for a long time



LowCode

Thank you!

Team: low-key