Leverage

Demonstration

Try It Now!

All links there

Team

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Frontend,
Translation API

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Testing, Documentation

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Main API, Database,
Docker

Overview

Simple Notes App - is a simple and fast way to make some notes

Key features

- Notes CRUD operations
- Secure authentication (JWT)
- Russian to English translation of notes
- SQLite database for persistence

Organisation and process

How we got our things done

Clear tasks definition

01

Checklist

Gather all requirements from assignment and product manager

02

Prioritization

Identify which features should we implement at first place

03

Task Board

For efficient work we need live task tracker to ensure not doing same job by people

04

Refine

In case of any new info or bug - update task board accordingly

Progress and results

What we achieved?

Our stats

91%
Documentation coverage

94%
Unit tests coverage

0
Bandit vulnerabilities

3
Highest cyclomatic complexity

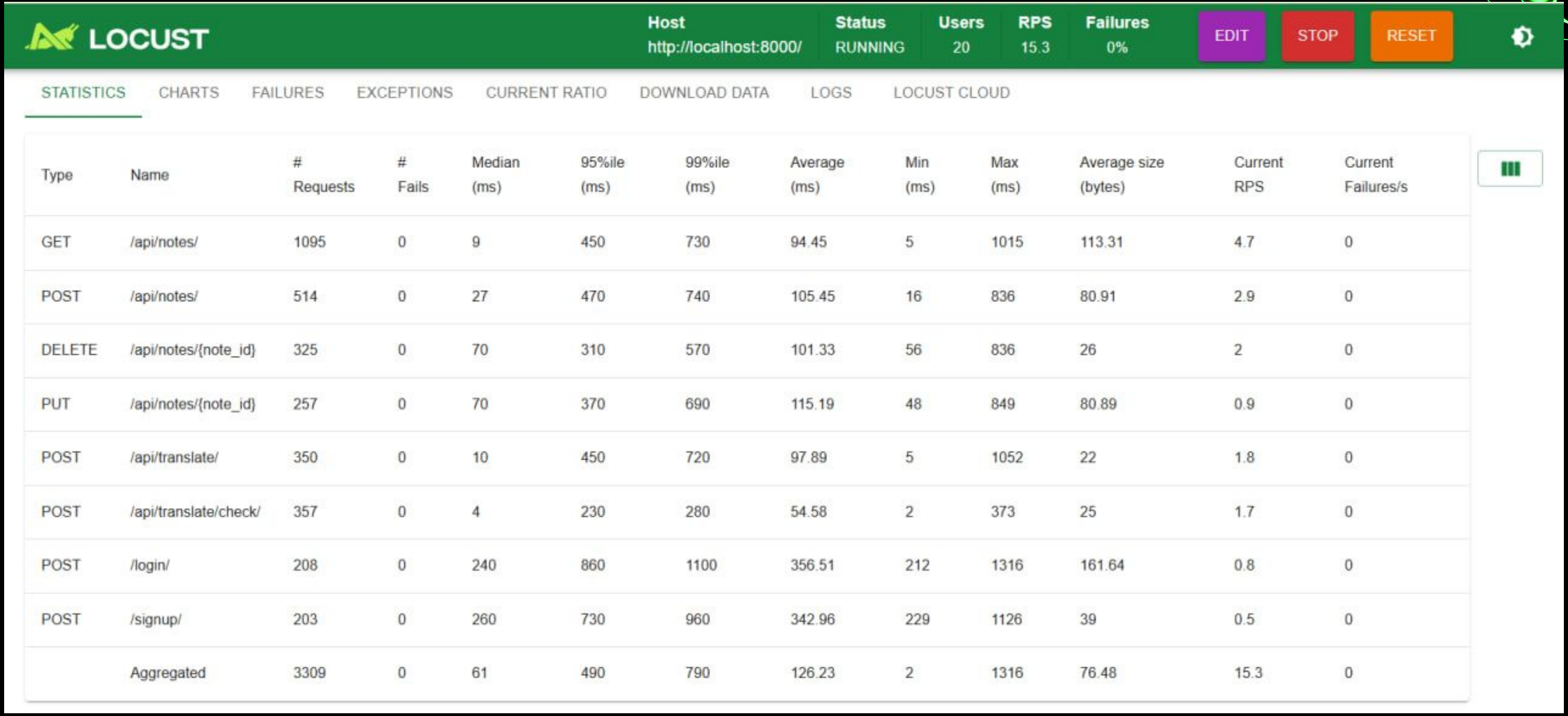
100%
Tests pass rate

100%
Compliance with PEP8

Performance testing

- 0% failure rate handling 20 concurrent users

- Average response time is less than 150 ms



Host http://localhost:8000/

Status RUNNING

Users 20

RPS 15.3

Failures 0%

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s
GET	/api/notes/	1095	0	9	450	730	94.45	5	1015	113.31	4.7	0
POST	/api/notes/	514	0	27	470	740	105.45	16	836	80.91	2.9	0
DELETE	/api/notes/{note_id}	325	0	70	310	570	101.33	56	836	26	2	0
PUT	/api/notes/{note_id}	257	0	70	370	690	115.19	48	849	80.89	0.9	0
POST	/api/translate/	350	0	10	450	720	97.89	5	1052	22	1.8	0
POST	/api/translate/check/	357	0	4	230	280	54.58	2	373	25	1.7	0
POST	/login/	208	0	240	860	1100	356.51	212	1316	161.64	0.8	0
POST	/signup/	203	0	260	730	960	342.96	229	1126	39	0.5	0
	Aggregated	3309	0	61	490	790	126.23	2	1316	76.48	15.3	0

Reliability

- Atomic transactions on db for data consistency

- Database rollback on errors

Security

- JWT expiration set to 30 minutes

- bcrypt for password hashing

Quality automation

How to ensure quality at each new feature delivery?

CI

01

Commit

02

Pipeline run

03

Pass
Fail - fix as needed and rerun

04

Quality ensured

Lessons learnt

What we could do better?

01

Testing Early Helps

Catching bugs in CI saved us time later.

01

Automation is key

Flake8 and Bandit made quality checks effortless.

01

Start working on project earlier

We realized that we possibly might do more job to improve our project

02

Collaborate often

At some point, 2 people were doing the same thing, which led to significant merge conflict and spending some time to resolve it

Links

Try It Out!

http://iliyas.dzabbarov.fvds.ru:8501/Register

Backend Swagger

http://iliyas.dzabbarov.fvds.ru:8000/docs

Link to our repository

https://github.com/TheAnushervon/SQRS_Project-Simple-Notes-App