

LoMap

Map service using SOLID

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Overview

What is LoMap?

LoMap



“LoMap is a map service intended for users who value their privacy above all.”



Requirements



- Users can add locations in different categories like: shops, bars, restaurants, sights, monuments, etc.
- Users will be able to show the locations in a map window
- Users can add review scores, comments, pictures, etc. about the added places.
- It will be possible to manage from the application the information that is accessible with other users, like their friends or groups of friends.
- The information about a place stored by each user should not be centralized and should be stored in each user's pod.
- If it is considered necessary, the system could store other information in a centralized way for performance reasons trying to respect the privacy of the users as much as possible.
- The system will allow users to see places and information about those places taken from their friends.
- The system will allow users to see the map with filters like by category, friends, etc.

Functionalities

What can you do with LoMap?

Markers



- Add
- Manage
- Classify

Reviews



- Comments
- Scores
- Images

Friends

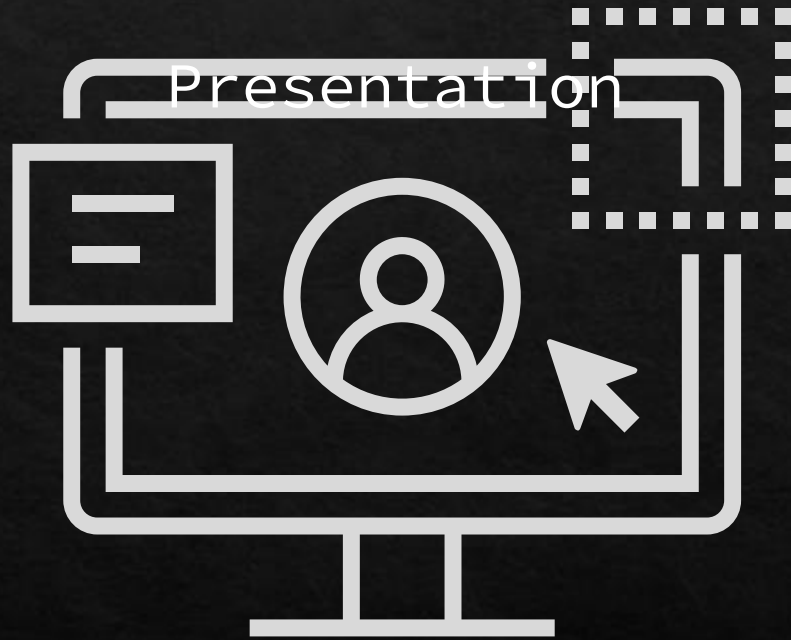


- Share sites
- Friend requests
- Friend management

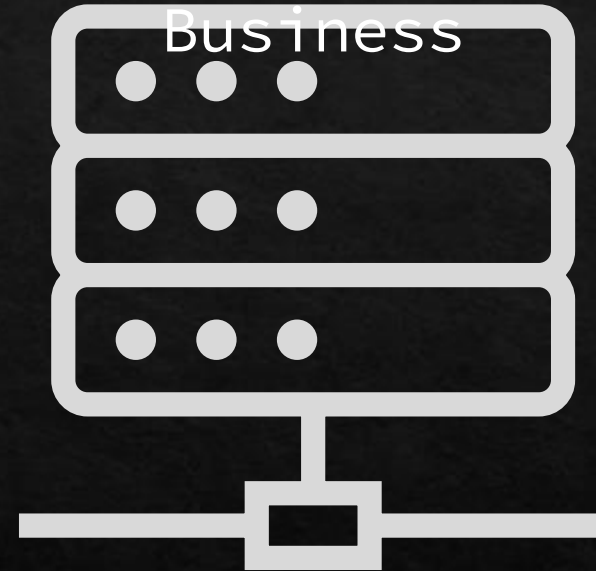
Architecture

How is LoMap built?

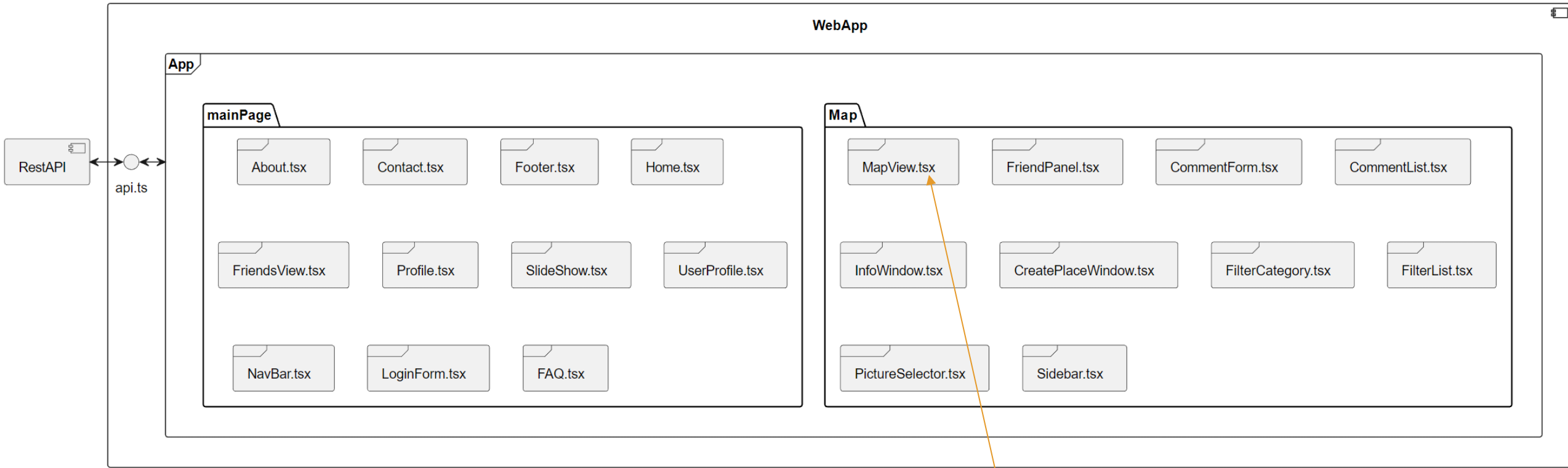
WebApp



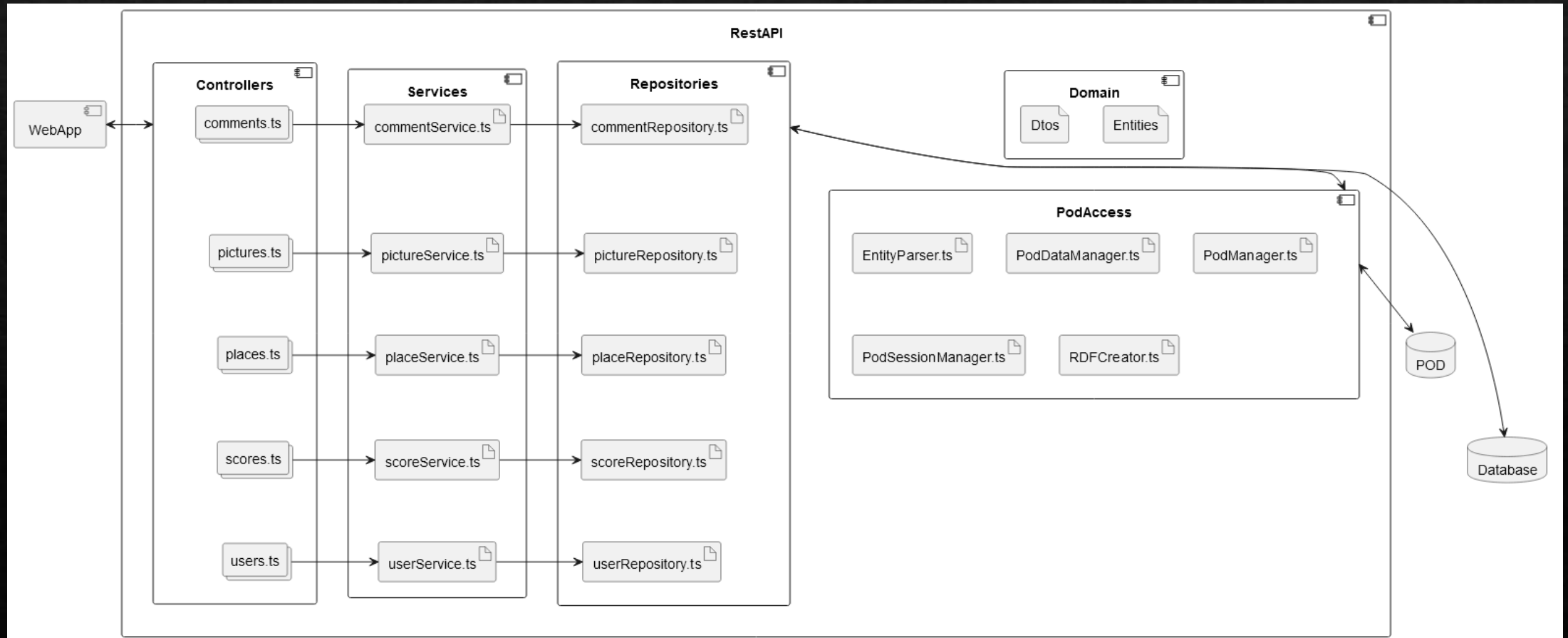
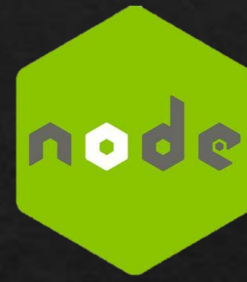
RestAPI



WebApp



RestAPI



Organization

How was LoMap built?

Team Organization

Scrum



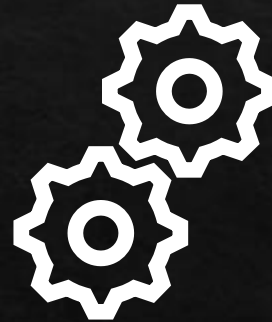
Team Organization

UI/UX



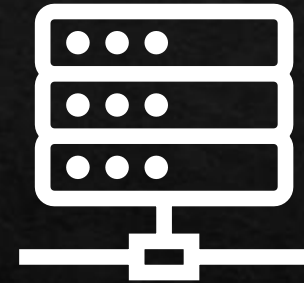
- Vanesa
- Diego

Business



- Rubén
- Pablo

Persistence



- Sergio
- Álvaro

Team Organization

UI/UX



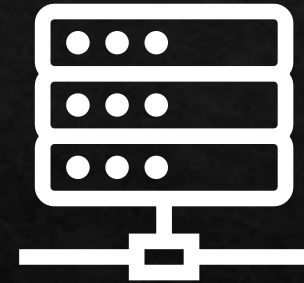
- Vanesa
- Diego

Business



- Rubén
- Pablo

Persistence



- Sergio
- Álvaro

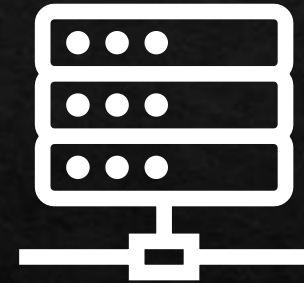
Team Organization

Web/App



- Vanesa
- Diego
- Pablo

Peristence



- Rubén
- Pablo

- Sergio
- Álvaro
- Rubén

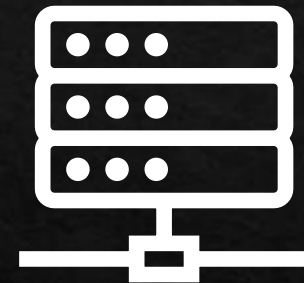
Team Organization

WebApp



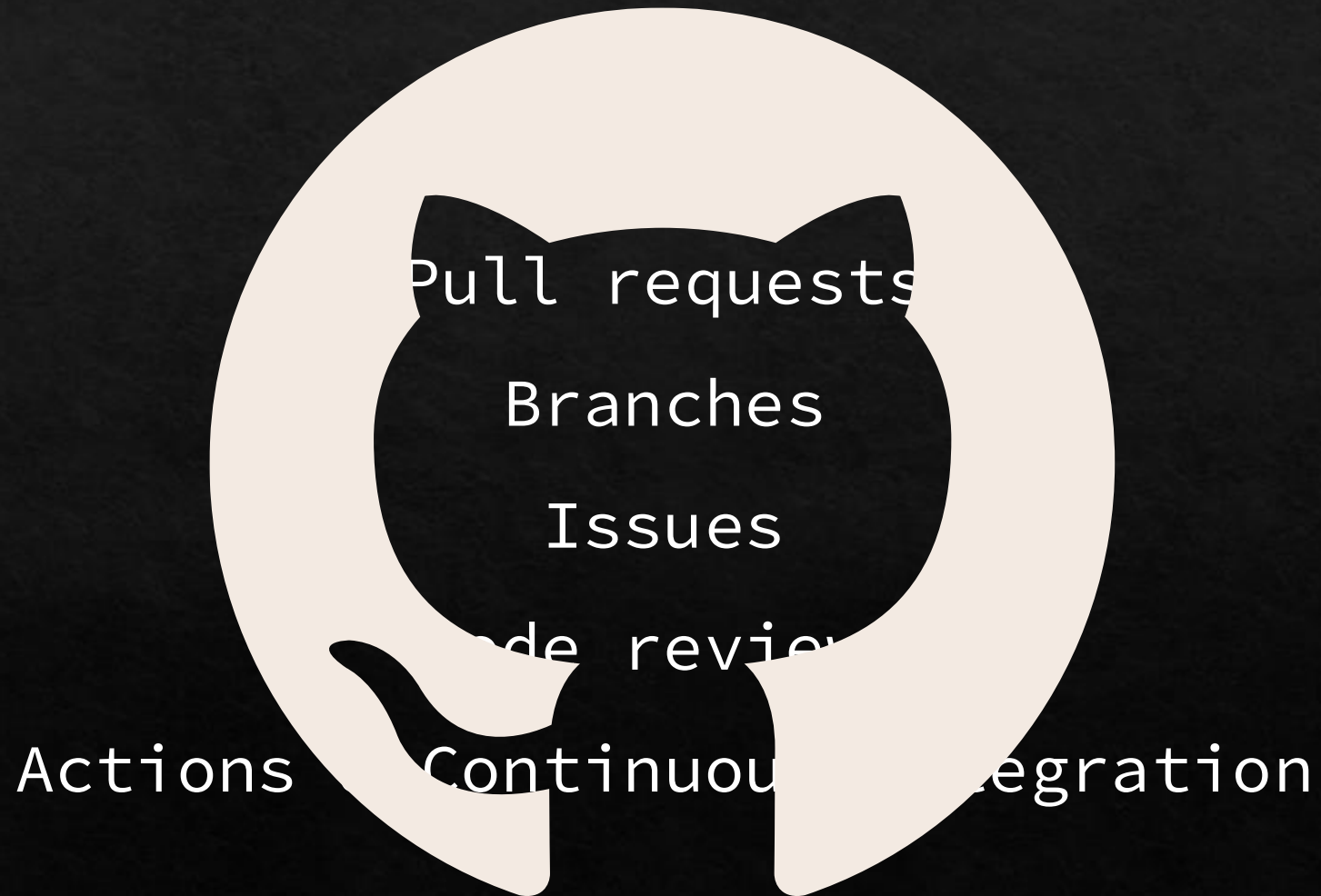
- Vanesa
- Diego
- Pablo

RestAPI



- Sergio
- Álvaro
- Rubén

Workflow elements



Decisions Taken

Why is LoMap the way it is?

Architectural Records

Database usage



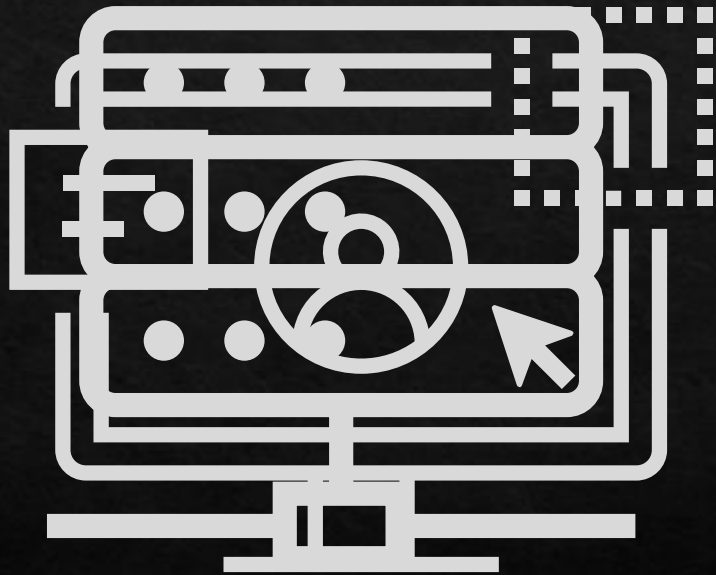
Database type



RestAPI refactor



Map Service
responsibility



Friend request
system




Friend request
window



Testing

How good is LoMap?

 CI for LOMAP_EN1A



deploy-over-ssh



docker-push-restapi



docker-push-webapp



e2e-tests







unit-test-restapi



unit-test-webapp

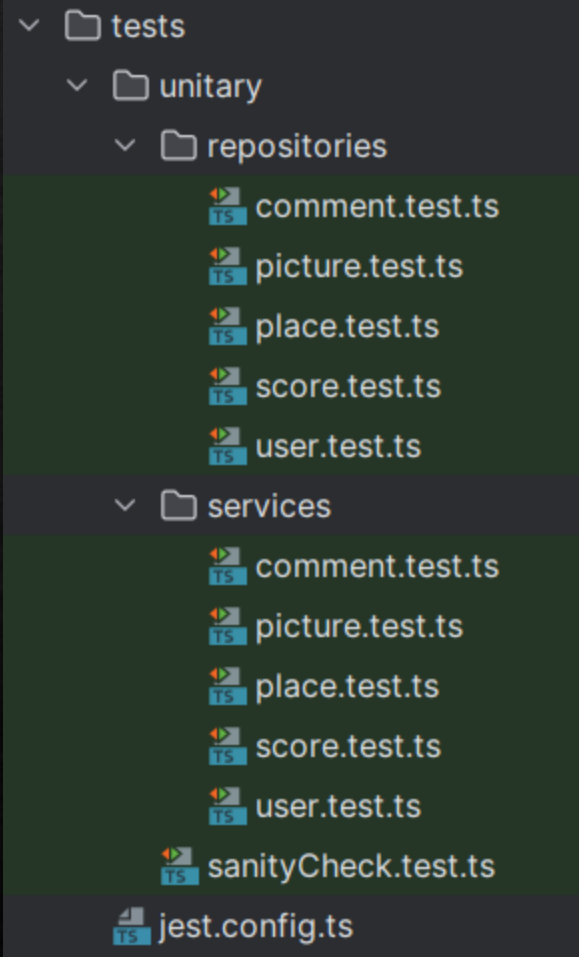
E2E

- ✓ e2e
 - ✓ features
 - 🌀 friendsmanagement.feature
 - 🌀 login.feature
 - 🌀 profile.feature
 - ✓ steps
 -  friendsmanagement.ts
 -  login.steps.ts
 -  profile.steps.ts
 -  jest.config.ts

```
RUNS steps/profile.steps.ts
RUNS steps/login.steps.ts
RUNS steps/friendsmanagement.ts
PASS  steps/login.steps.ts (20.817 s)
PASS  steps/profile.steps.ts (30.604 s)
PASS  steps/friendsmanagement.ts (30.637 s)
A worker process has failed to exit gracefully and has leaked
d leaks. Active timers can also cause this,

Test Suites: 3 passed, 3 total
Tests:       3 passed, 3 total
Snapshots:   0 total
Time:        33.481 s
Ran all test suites.
```


Unitary



```
PASS unitary/repositories/user.test.ts (7.352 s)
PASS unitary/services/place.test.ts
PASS unitary/services/user.test.ts
PASS unitary/services/comment.test.ts
PASS unitary/services/picture.test.ts
PASS unitary/services/score.test.ts
PASS unitary/repositories/picture.test.ts
PASS unitary/repositories/score.test.ts
PASS unitary/repositories/comment.test.ts
PASS unitary/repositories/place.test.ts
PASS unitary/sanityCheck.test.ts
```

Test Suites: 11 passed, 11 total

Tests: 64 passed, 64 total

Snapshots: 0 total

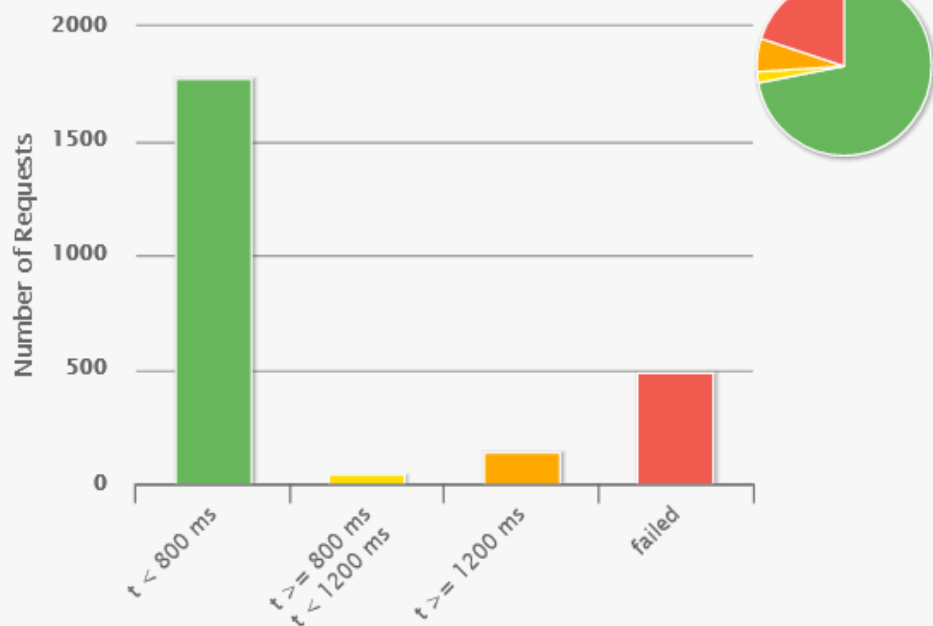
Time: 22.775 s

Ran all test suites.

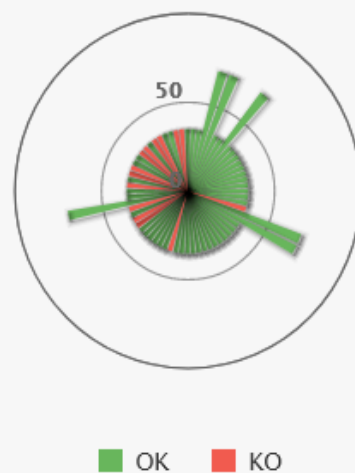
Load Testing

1200 users as to route

Response Time Ranges



Number of requests



Gatling Version

Version: 3.9.3

Released: 2023-04-03

Run Information

Date: 2023-05-02 16:20:52 GMT

Duration: 56s

Description:
test run 3 (stress)

Demo time!