# Geofeelings

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## Contents

Build	1
Status	1
Instructions	1
Links	2
Deployment	2
Default users	2
Performance	2
Task division	2
Workload	2
Estimated	2
Actual	3
Technology	3
Frontend	3
Backend	3
Conclusion	3
Possible enhancements	3
Difficulties	4
Successes	4
Personal remarks	4

### Build

#### Status

build passing

#### Instructions

npm install
npm start

#### Links

Production: young-dusk-9003.herokuapp

Repository: octagonal/Geofeelings

#### Deployment

Deployment is handled by Travis CI.

#### Default users

Username	Password
ikbeneendocent	test123

The MongoDB & Admin credentials will be given during the presentation.

#### Performance

- Consistently 60FPS
- $\bullet\,$  Network load is reduced to a minimum by using very efficient MongoDB calls

#### Task division

Name	BE	FE	Task in team
Anthony Madhvani	Y	N	Backend, frontend

#### Workload

In hours

#### Estimated

Activity chat: \*

#### Actual

Timeline: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*8.00

Authentication & authorization: \*\*\*\*\*\*\*4.00

Entry filtering: \*\*\*\*\*\*\*\*4.00
 Activity chat: \*\*\*\*\*\*\*\*\*6.00

## Technology

This list is not exhaustive. Refer to /package.json for every package used.

#### Frontend

Name	Usage	
Jade	Non-interactive views	
React	Stateful, interactive views	
Sentiment	Calculating sentiment	
Moment	Date calculations	
lodash	Throttling function calls, filtering & mapping the entry list	
d3	Showing graphs	

#### Backend

Name	Why
qs	Parsing querystrings
Passport	Helps with auth
Node.js	Mandatory
connect-flash	Flash important messages
express-session	Manage sessions

#### Conclusion

#### Possible enhancements

- Additional filtering
- Graphic the amount of tags

• Showing the trending tags

#### **Difficulties**

#### • JavaScript

Being used to strongly typed languages, coming to grips with JavaScripts dynamism was quite difficult at first. It requires a great deal of discipline to keep code structured since the compiler won't do it for you.

#### • React

React does not play along nicely with most "classic" UI libraries such as Jquery or Bootstrap.js, especially when those libraries update state as well. Some nasty hacks were required.

#### Successes

#### • Isomorphic UI

Rendering on both the server and in the browser was largely a success. This is a substantial improvement over my previous projects since the UI has the best of both worlds: caching, Google indexing, interactivity, etc.

#### • Map & Chat

The main views of the project were (IMO) implemented very well. State updates instantly across all components, chat works as expected and the timeline is really snappy.

#### Personal remarks

By doing this project I came to the realization I would've gladly taken on the FE module as well. Nevertheless, it was a great experience for me because it was my first real attempt at making a (non-tutorial level) project with a JS based stack. If I had to take a guess I would say that the technological skills I learned by doing this project will definitely come in handy in my career.

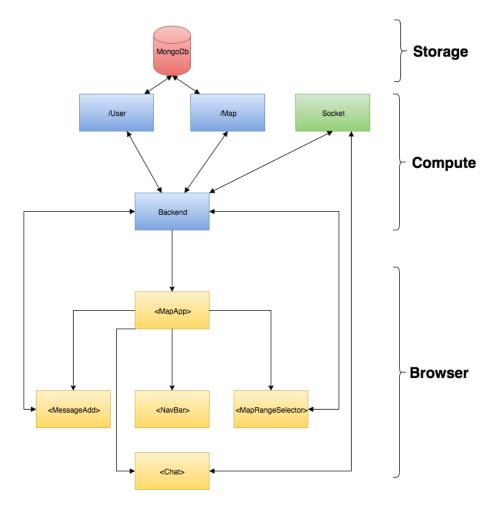


Figure 1: Architecture

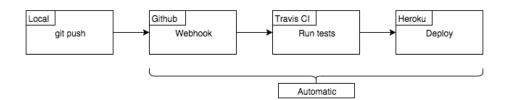


Figure 2: Deployment