# Geofeelings

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build passing	

# Build instructions

npm install
npm start

### Links

Deployment: young-dusk-9003.herokuapp

Repository: octagonal/Geofeelings

## Deployment

A simple git push heroku master should suffice. Please create a new issue if this is not the case for you.

### 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

Map view:	5.00
Timeline:	4.00
Authentication & authorization:	3.00
Statistics view:	5.00
Entry filtering:	4.00
Activity chat:	5.00

### Actual

Map view: 10.00

Timeline: 8.00

Authentication & authorization: 4.00

Statistics view: 10.00

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.

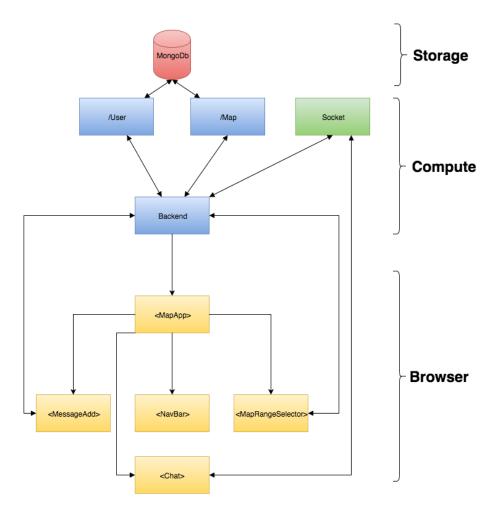


Figure 1: Architecture