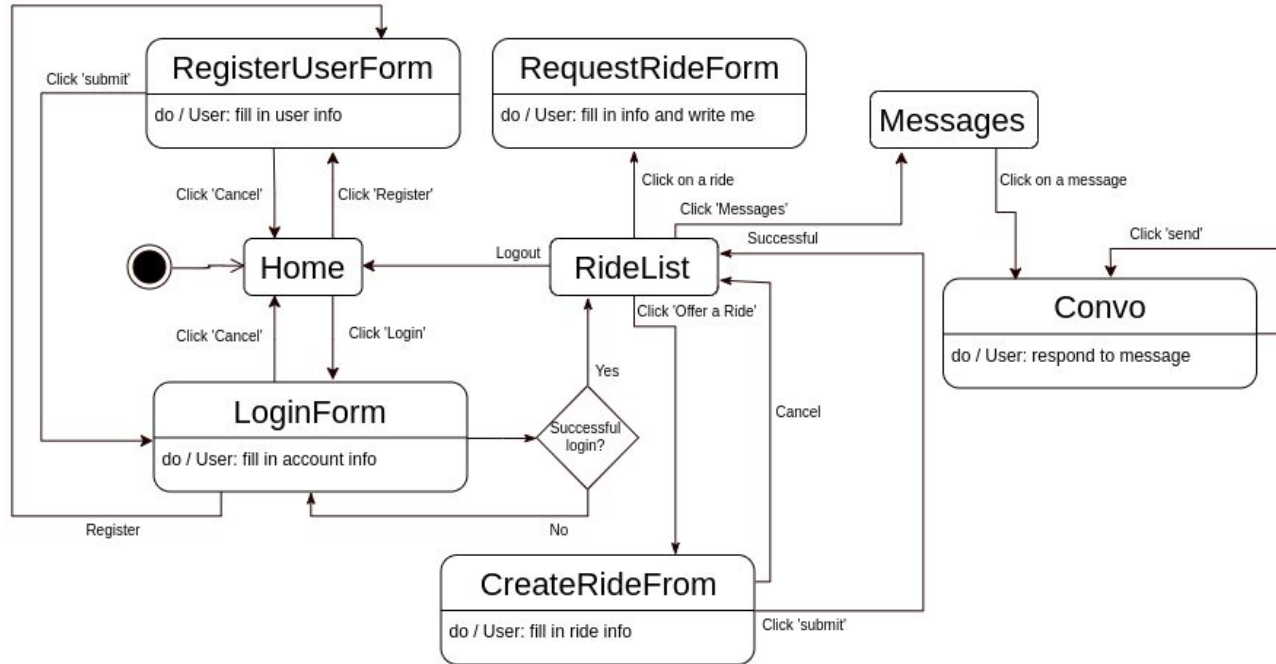
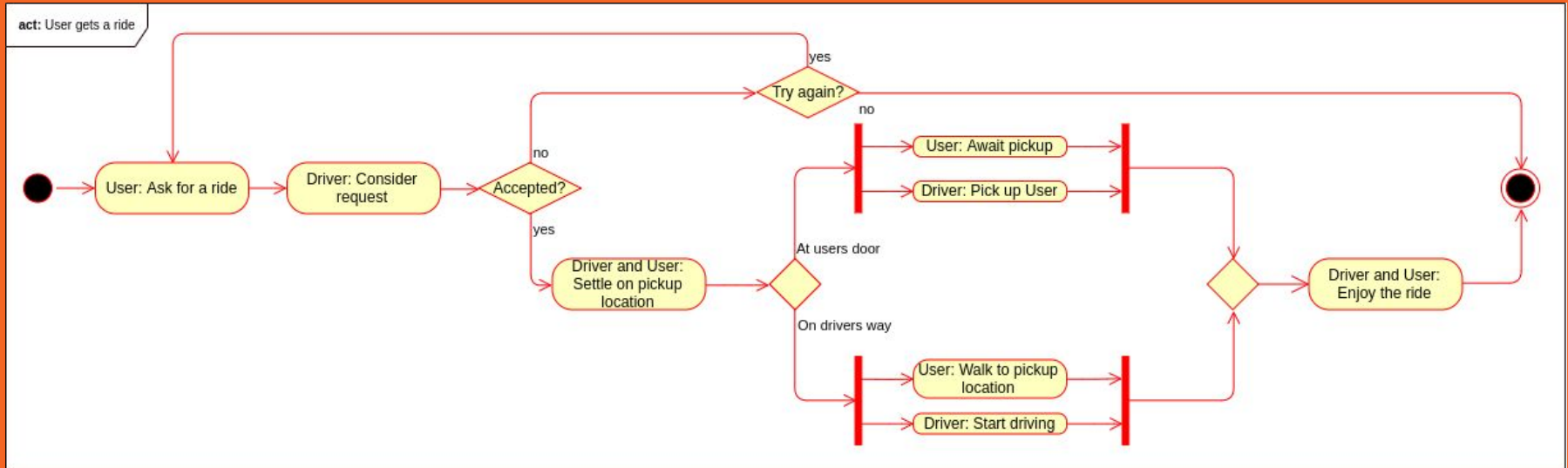

Hop on

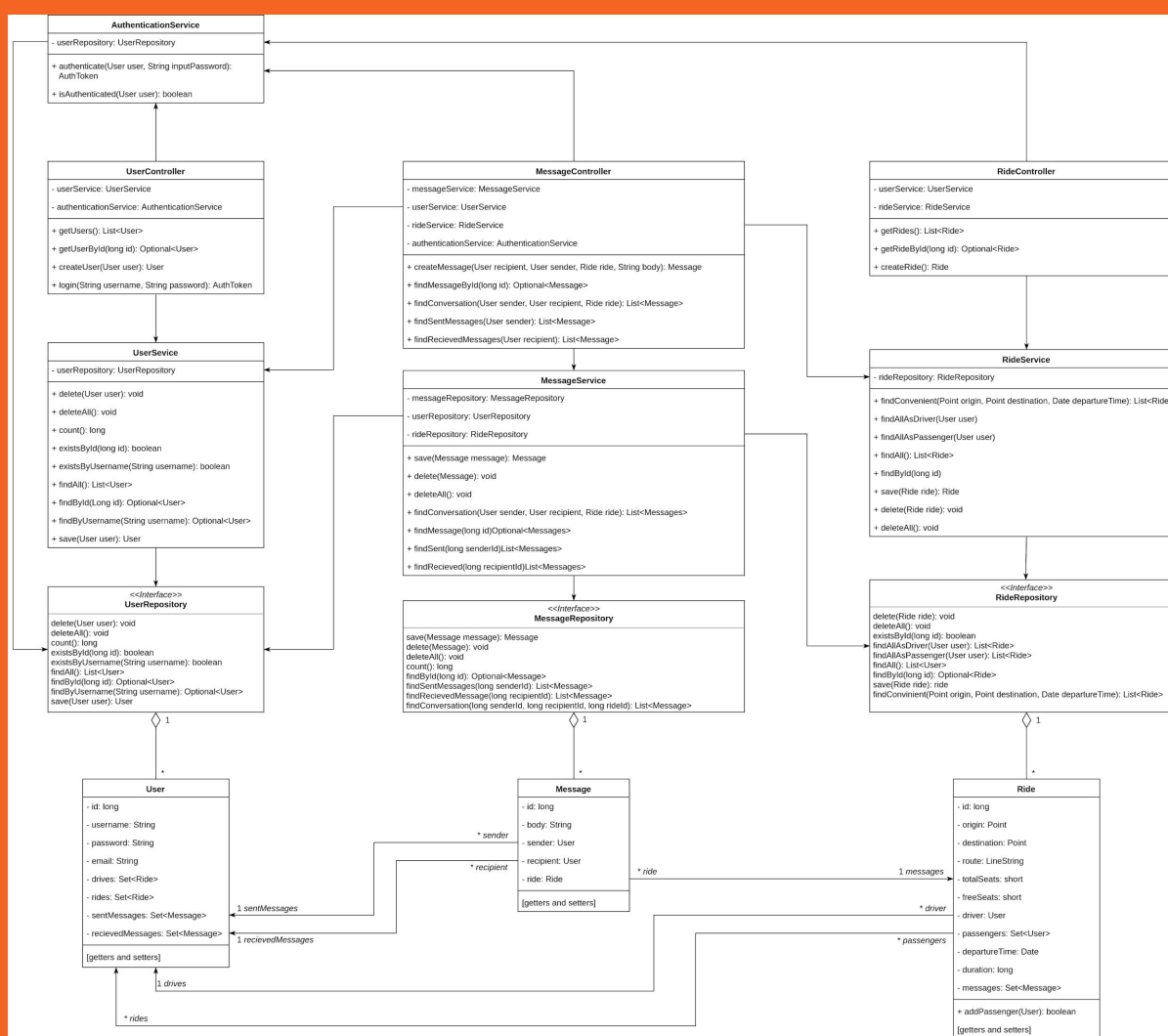
A ride sharing application

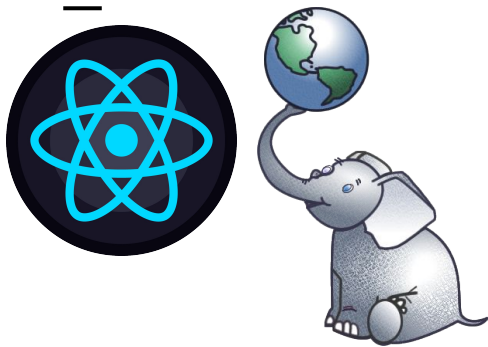
Gunnar & Jón

smd: navigation

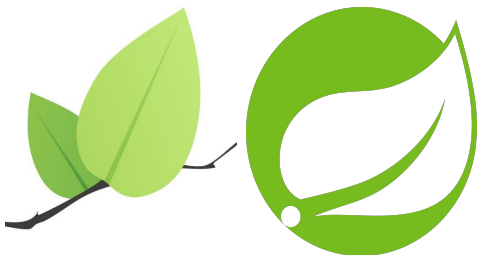
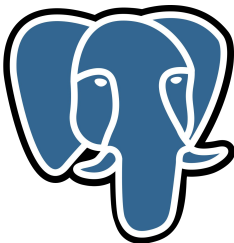








**openroute
service**



Implementation and Tech Stack

Backend

- Java Spring REST API
- PostgreSQL
- PostGIS psql extension for geospatial data
- Hosted on Heroku

Frontend

- Reactjs
- Leafletjs
- React-leaflet

Other

- Uses the Open Route Service API extensively
 - Route directions
 - Geocoding and naming
 - APIS petrol endpoint
 - To calculate fuel costs
 - Client-side rendering
 - Leaflet does not support SSR
 - JWT authentication scheme
-

Retrospect

- The project was fairly consistent with the Design model
 - Minor changes to the backend
 - Did not(could not) anticipate exactly how and what data the frontend would consume
 - Lots of unfamiliar technologies
 - Resulted in some inconsistencies and possibly antipatterns
 - Some things took longer than we intuitively thought
 - Took too long to figure out a good way to sync React with Leaflet
 - Authentication is implemented very differently than originally planned(apart from using JWT)
 - Frontend had no formal planning or modeling, but is consistent with the original vision
-

What could have gone better?

- Developing the backend went pretty much as expected
 - Could have been made more flexible in hindsight
 - The original plan was missing some features that made developing the frontend harder than it needed to be
 - Not enough work put into high quality error messages
 - The frontend was difficult
 - Leaflet and React don't play super nicely together
 - The API was not flexible enough which added a lot of overhead with data fetching
 - Probably could have been alleviated somewhat by doing less with it on the backend
 - Probably would have been a good idea to adopt a state management solution, like Redux or Mobx
 - Should have used Typescript
-

Demo

Questions?
