



Bike Routes

FFHS Group project
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AGENDA

1. PROJECT OBJECTIVES AND SCOPE
2. WORKBREAKDOWN STRUCTURE AND PLAN
3. PROJECT MILESTONES PRESTUDY
4. PROJECT MILESTONES BUILD
5. INFRASTRUCTURE OVERVIEW
6. GITHUB STRUCTURE
7. LOGIN / REGISTER / LOGOUT
8. PROFILE
9. BIKE ROUTES
10. HOME & CONTACT



PROJECT OBJECTIVES AND SCOPE

Objectives

Development and implementation of a web application based on html, css, javascript and the MERN stack. This includes the following objectives:

- define business and technical requirements
- according to requirements develop a single page react application with persistence and REST-API interfaces
- in particular meet the business requirement of a motorbike route search

In Scope

- Use of MERN stack
- Persistency through MongoDB
- Communication between client and server with Express
- Front-end based on React
- Client and server use modern JavaScript (ES6, Server Node.js)
- The application is dockerized
- SCRUM-project approach
- Register, Login, Logout functionality (Authentication with JWT token saved in httpOnly cookie.
- Bike routes reduced to two preference dimensions: route type and location
- Responsive SPA

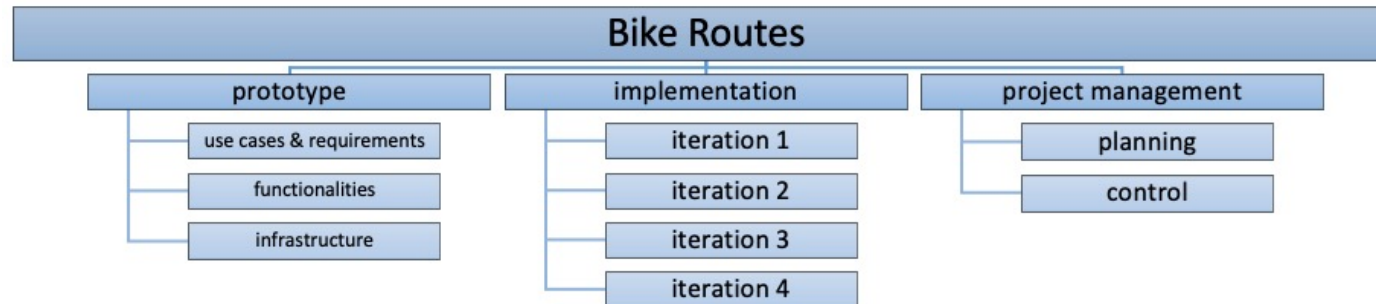
Out of scope

- Web application made public
- Change Management (e.g. coaching, marketing)
- Project risks and business case
- Project effort estimations are omitted
- Further preference dimensions such as bike type
- Reset password functionality
- Further hardening measures w.r.t authentication



WORKBREAKDOWN-STRUCTURE AND PLAN

Workbreakdown-structure



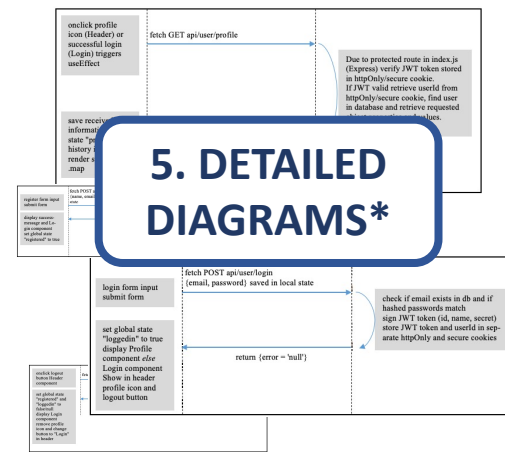
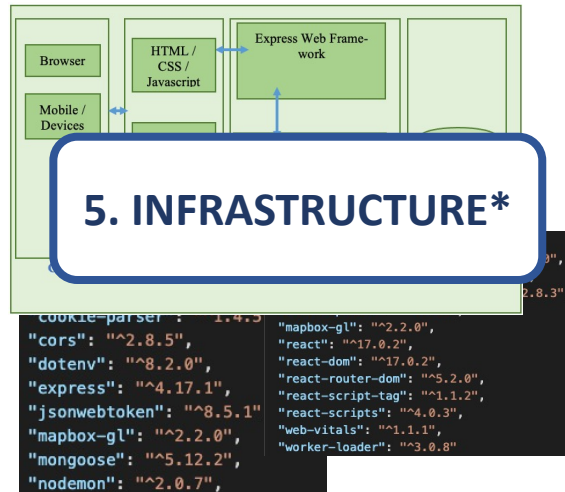
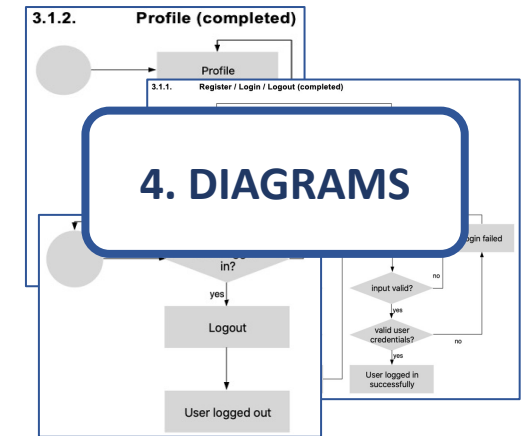
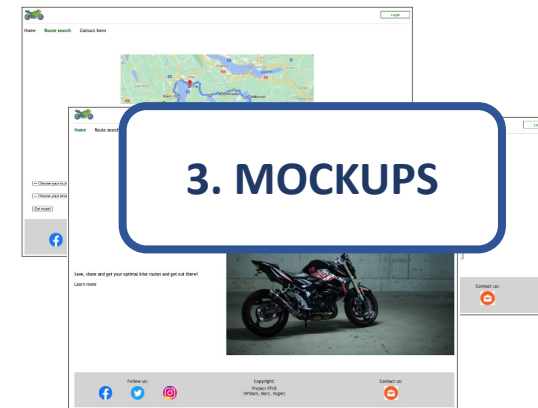
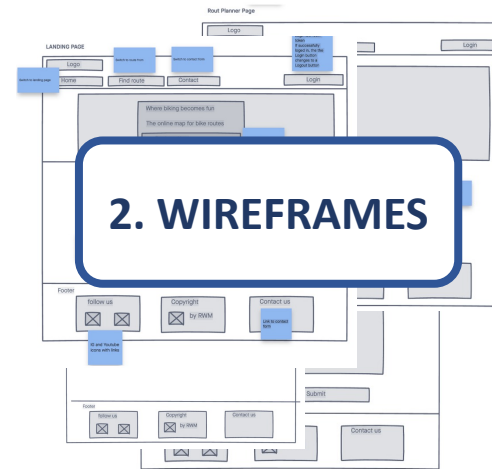
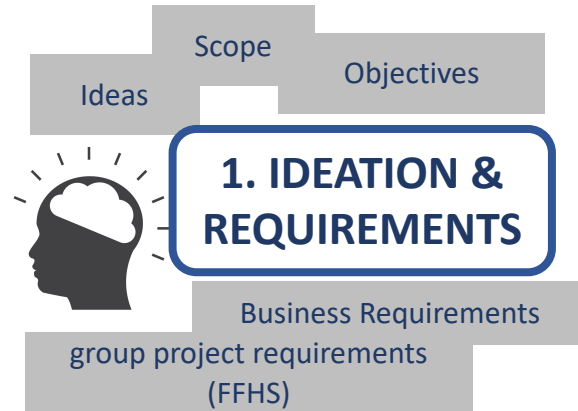
Project plan

	% com- pleted	Jan 21	Feb 21	Mar 21	Apr 21	May 21	Jun 21	Jul 21
Prototyping	0%							
Use cases + require- ments	100%							
Functionalities	100%							
Infrastructure	80%							
Implementation	0%							
Iteration P2	0%							
Iteration P3	0%							
Iteration P4	0%							
Iteration P5	0%							
Iteration P6	0%							
Project management	0%							
Planning	80%							
Control	15%							

PVA12 PVA34 PVA56 PVA78 PVA910



PROJECT MILESTONES - PRESTUDY





PROJECT MILESTONES - BUILD

1. NODE.JS

2. EXPRESS & REST*

**3. MONGOOSE &
MONGODB***

4. REACT*

5. DOCKER

6a. BIKE ROUTES*

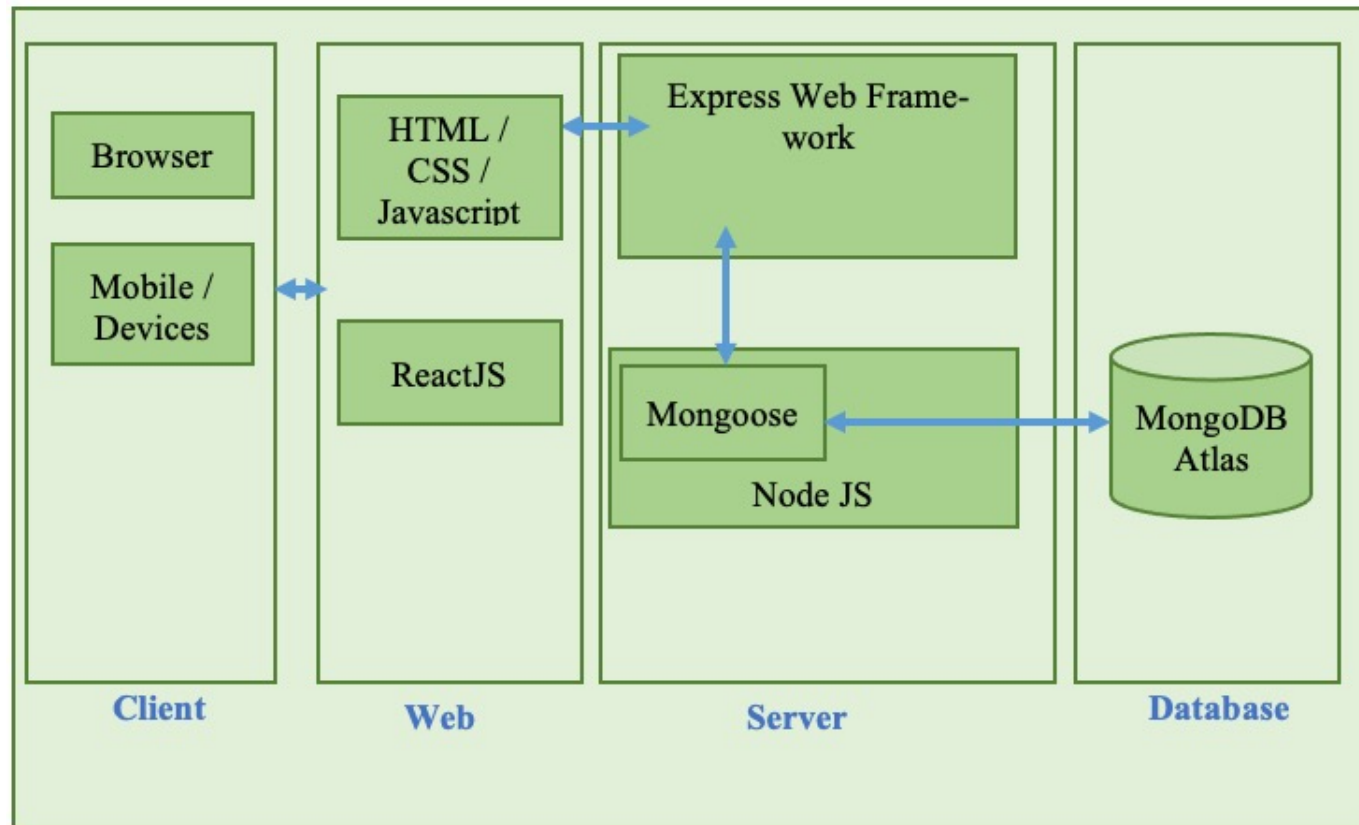
**6b. HOME &
CONTACT***

**6c. LOGIN / REGISTER
/ LOGOUT***

6d. PROFILE*



INFRASTRUCTURE OVERVIEW

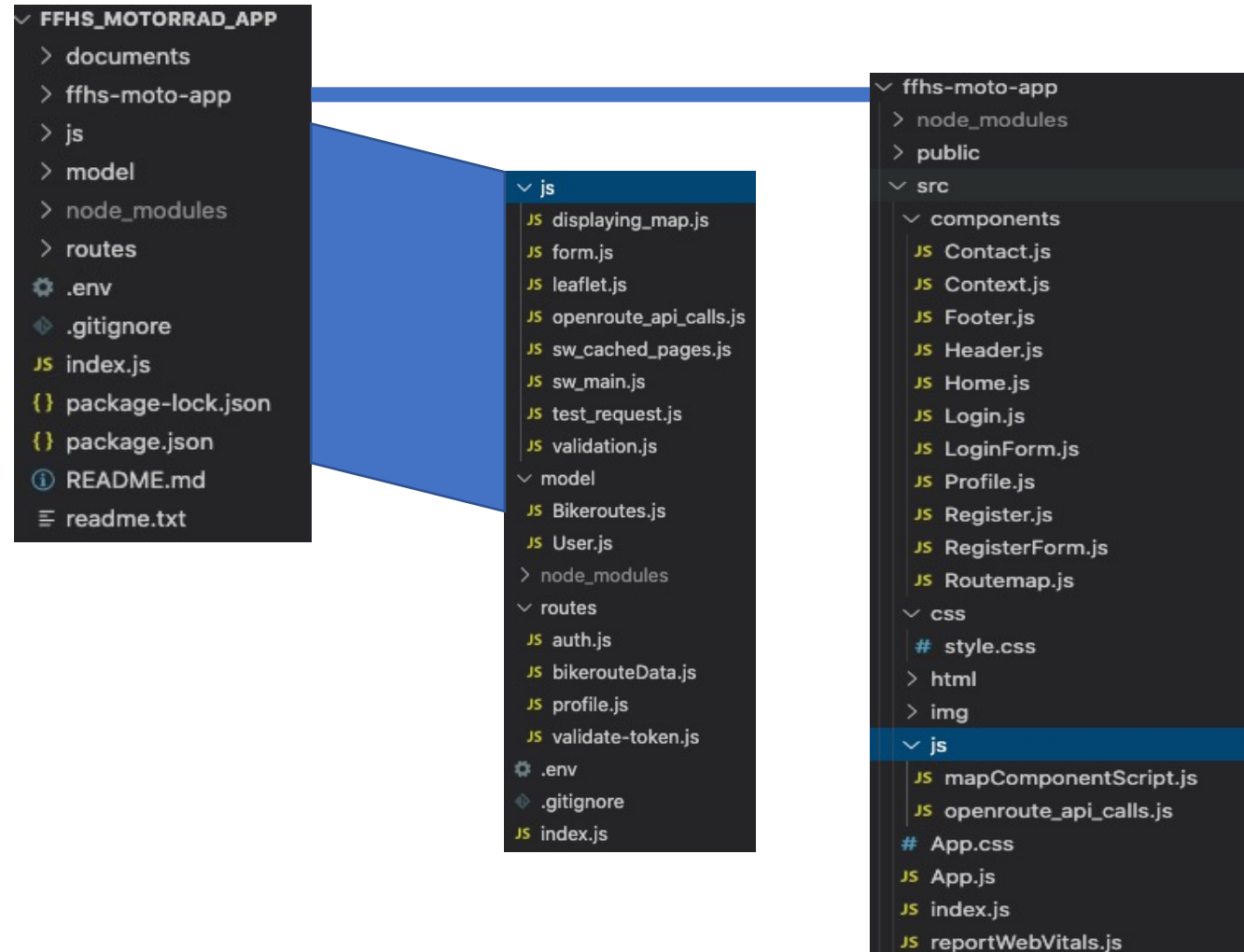


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"express": "^4.17.1",  
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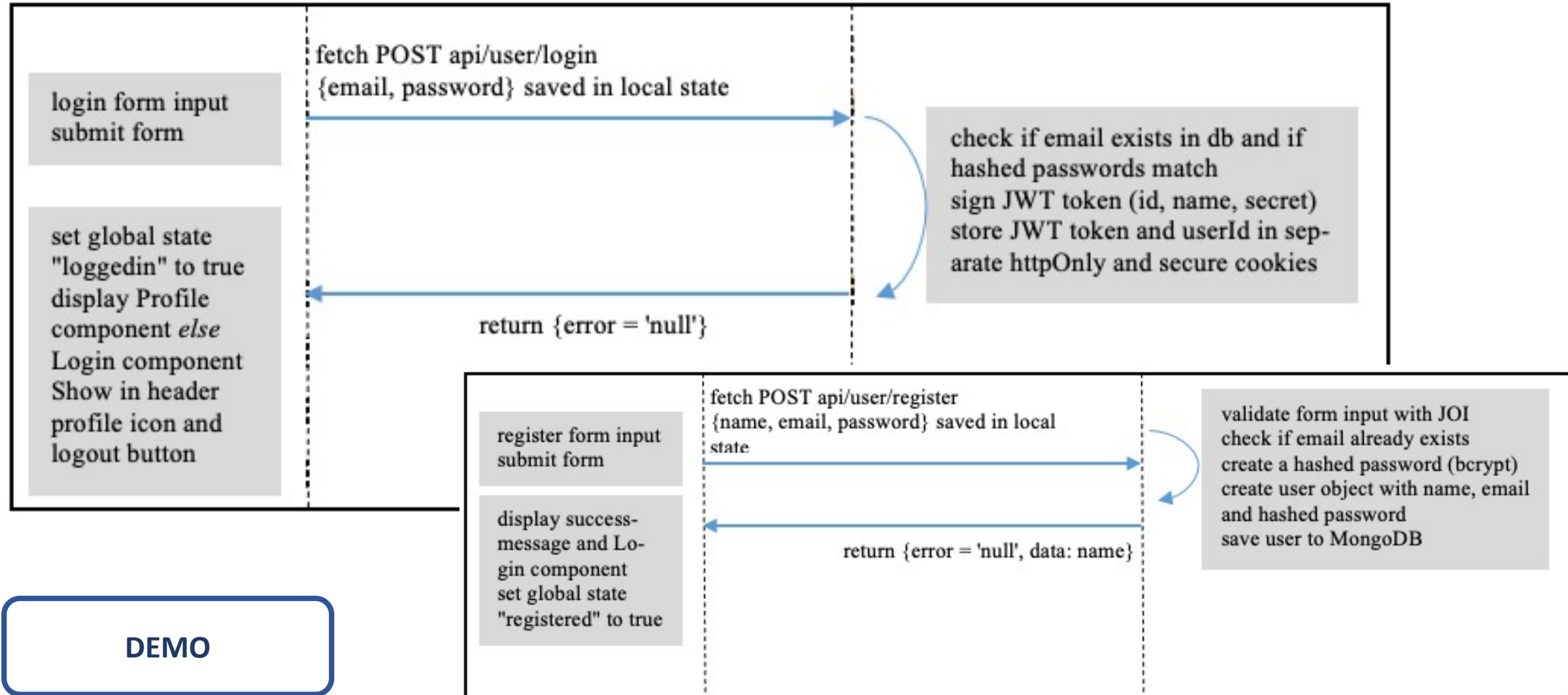


GITHUB STRUCTURE





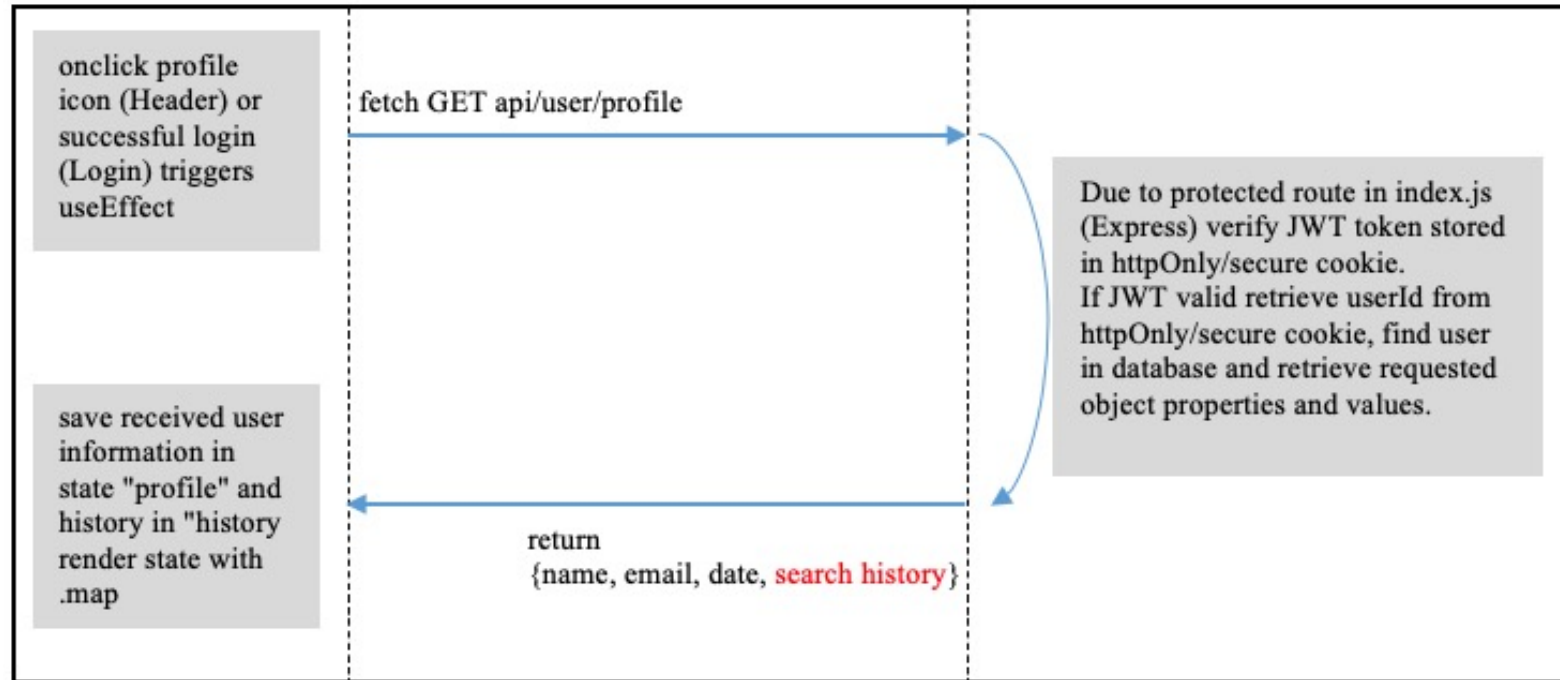
LOGIN / REGISTER / LOGOUT



DEMO



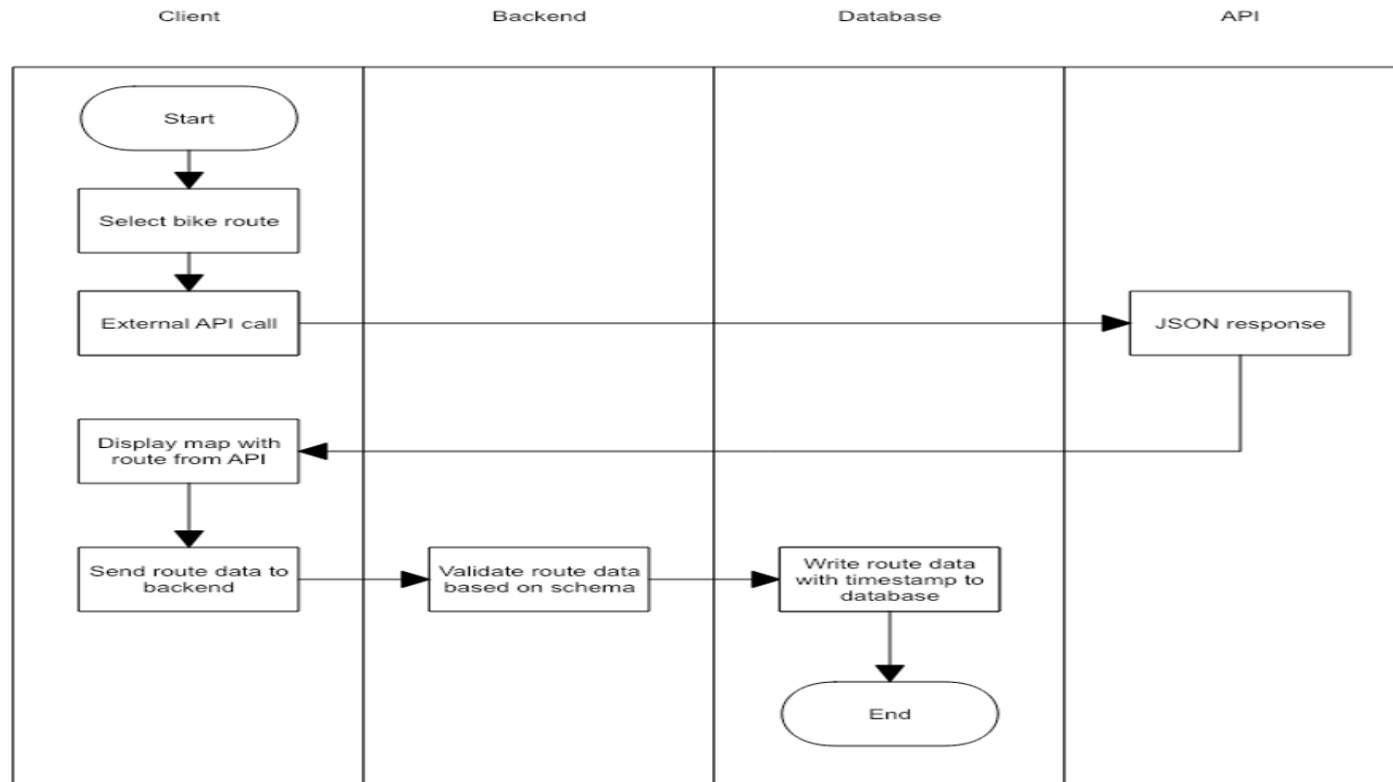
PROFILE



DEMO



BIKE ROUTES

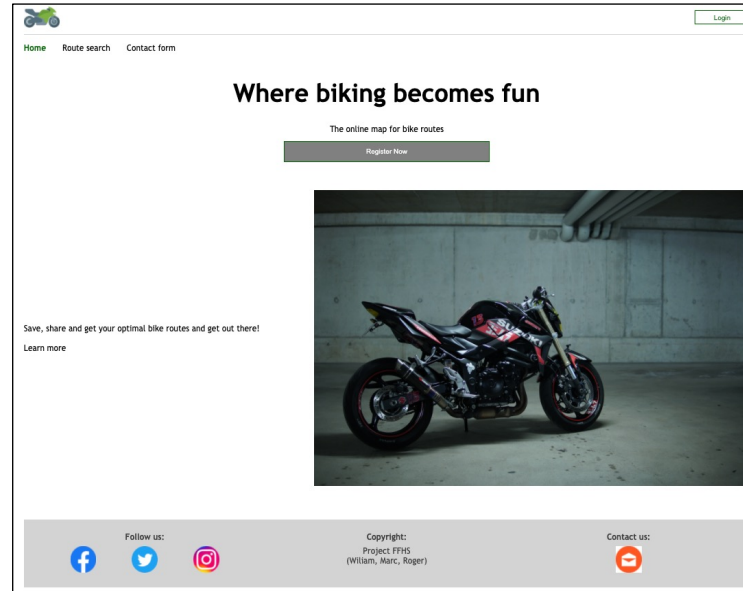


DEMO



HOME & CONTACT

Home



- Text and image to pitch
- Direct possibility to register
- Link to rout search

DEMO

Contact form

- The main usage for the contact form is for the user to get in touch with us. It serves as a means for the customer to communicate with the provider (e.g. feedback, questions, problems).
- User fills out required fields (name, email address and comment)