

Challenge Task

Nutrinfo

Distributed Systems & Blockchain

FS2021

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Agenda



GOAL



SOFTWARE DESIGN



IMPLEMENTATION



REQUIREMENTS



DEMONSTRATION

Goal

A scalable lightweight tool to track meals and snacks

[illegible]

←

Mittwoch, 5. Mai 2021

→

Übersicht

▼ Morgenessen

Kartoffeln

5g

✖

Wasser

2dl

✖

▼ ZNünnl

Kaffe

2dl

✖

Wasser

5dl

✖

Hinzufügen

Agaversirup

120

g/ml

✖

ZNünnl

▼

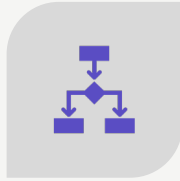
Speichern



Software Design



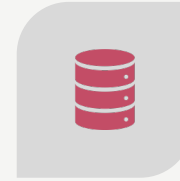
Simple Frontend



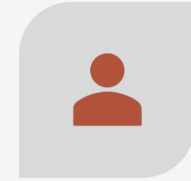
Loadbalancer



Two service instances

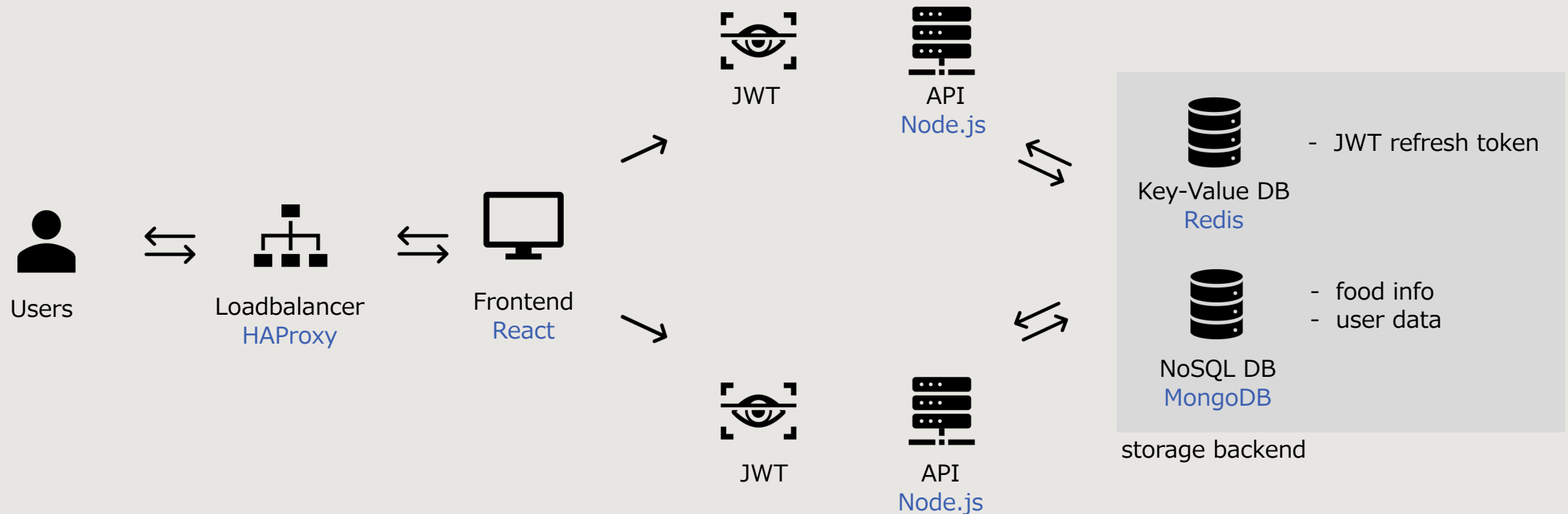


One storage backend



JWT Authentication

Implementation



Tech Stack

FRONTEND



React



Redux



Semantic-UI

DATASTORE



MongoDB



Redis

BACKEND



mongoose

LOADBALANCER



HAPROXY

Requirements

- ✎ Load balancing
 - ✎ Scalable service
 - ✎ JWT authentication
 - ✎ Dockerized
 - ✎ Use latest stable releases of chosen Libraries/Frameworks
- ✓ HAproxy
 - ✓ Stateless Frontend / API
 - ✓ Access Token & Refresh Token
 - ✓ Docker Compose based Architecture
 - ✓ Used latest stable releases



Hallo Marco



Mittwoch, 5. Mai 2021



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▼ Z'Nüni

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Hinzufügen

Agavensirup



120

g/ml

Z'Nüni



Speichern

Demonstration

Questions

The bottom of the slide features a decorative graphic consisting of several overlapping, wavy lines in shades of light gray and white, creating a sense of movement and depth.