



universidade
de aveiro

Milestone 4 Project Presentation

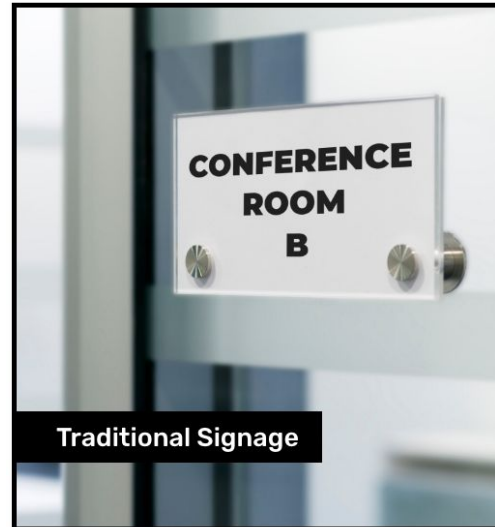
| | | | |
|-----------------|--------|---------------|--------|
| Diogo Silva | 107647 | João Andrade | 107969 |
| Miguel Cruzeiro | 107660 | Pedro Pinho | 109986 |
| Tomás Victal | 109018 | Rafael Vilaça | 107476 |

Advisors: Gonçalo Leal
 António Alves
 Nuno Carvalho



Context and State of The Art

- Dynamic information.
- Improves information accessibility.
- Easy management & maintenance.



Context and State of The Art



Context and State of The Art



- Videos iterated statically
- Limited capability
- Client's request: Overhaul entire system.

Context and State of The Art



Context and State of The Art



17.4° C



Events

15/12/2023 - 15/11/2024

Catacumbas

Exposição: 50 objetos
de conhecimento
1973-2023

15/12/2023 - 15/11/2024

DETI - Anfiteatro IV

Elon Musk no porquê
de utilizarmos carros
elétricos

News

↳ Borges, do CICECO, membro da Global Young Academy e do Seminário de Jo



Context and State of The Art



17.4° C 

Events

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News

o Borges, do CICECO, membro da Global Young Academy e do Seminário de Jo

Our Goal:

- Content Management System
- Content Creator Tool (CCT)
- Media Player

Problem



\$11
screen/month



\$12.50
screen/month



16 €
screen/month



Personas



Technician in DETI

Name: Rui

Age: 37

Occupation: Technician

Nuno aims to **effortlessly share news** and other resources on screens he can add.



Employee

Name: Sara

Age: 30

Occupation: Designer

Sara seeks customizable software that allows her to unleash her creativity and **design her own templates**.



Student at DETI

Name: Rodrigo

Age: 19

Occupation: Student

Rodrigo anticipates clear and accessible information to remain updated while navigating the campus.



Management

Conditions

Your new code will be clean if: ?

No new bugs are introduced

Reliability rating is A

No new vulnerabilities are introduced

Security rating is A

New code has limited technical debt

Maintainability rating is A

All new security hotspots are reviewed

New code is sufficiently covered by test

Coverage is greater than or equal to 80.0% ?

New code has limited duplication

Duplicated Lines (%) is less than or equal to 3.0% ?

SonarCloud Quality Gate



UA Smart Signage Platform Docs 🔍 Search

Home Documentation Guidelines PI

Guidelines

Reporting Bugs

Server Repository

Media Player Repository

Proposing New Features

Server Repository

Media Player Repository

Running Tests and Setting Up Your Environment

Code Style and Conventions

Definition of Done (DOD)

Get in Touch

Contributing to UA Smart Signage

Welcome to UA Smart Signage! We appreciate your interest in contributing. Before you get started, please take a moment to review the following guidelines.

Reporting Bugs

Server Repository


1. Ensure the bug has not already been reported by checking the [Issues](#) section.
2. If the bug has not been reported, open a new issue. Please use the provided pull request template to ensure all necessary information is included.
3. Provide a clear and detailed description of the bug, including steps to reproduce it.
4. Include any relevant screenshots or error messages.

Project Guidelines



Issues Page

<> Code Issues 2 Pull requests Actions Projects 2 Wiki Security Insights Settings



Bug Report
Report a bug Get started

Feature Request
Suggest an idea for this project Get started


Don't see your issue here? [Open a blank issue.](#) Edit templates

Pull Request Template

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparisons here.](#)

base: dev ← compare: 71-add-a-pull-request-template ✓ Able to merge. These branches can be automatically merged.



Add a title

Add a description

Write Preview

Issue

Closes #.

Reason for this change

Description of changes

Description of how you validated changes

Checklist

- I have tested my changes locally.
- I have updated the documentation to reflect my changes.
- I have added/updated unit tests (if applicable).
- My code adheres to the [CONTRIBUTING GUIDE](#)

Additional Information

Reviewers ⚙️
No reviews—at least 1 approving review is required.

Assignees ⚙️
No one—[assign yourself](#)

Labels ⚙️
None yet

Projects ⚙️
None yet

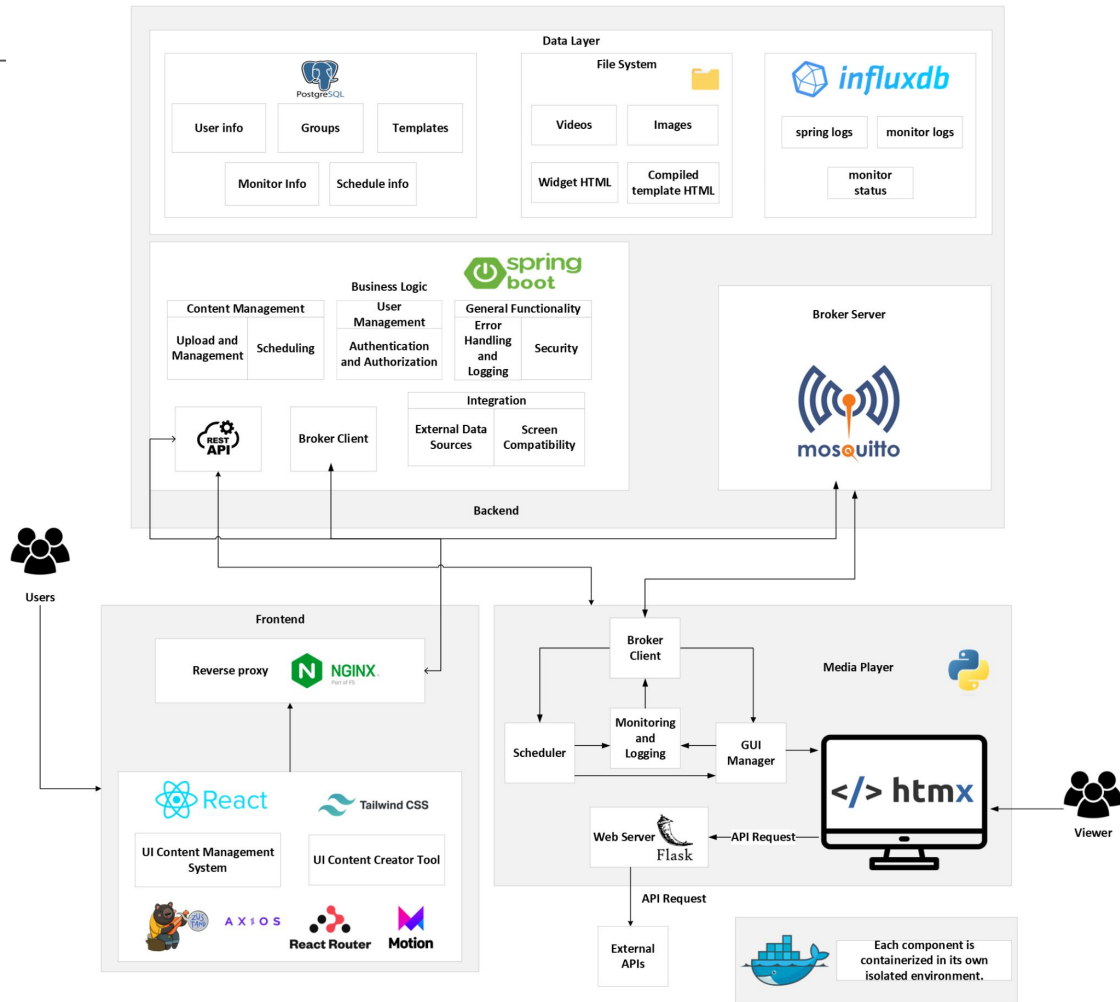
Milestone ⚙️
No milestone

Development
Use [Closing keywords](#) in the description to automatically close issues

Helpful resources
[GitHub Community Guidelines](#)

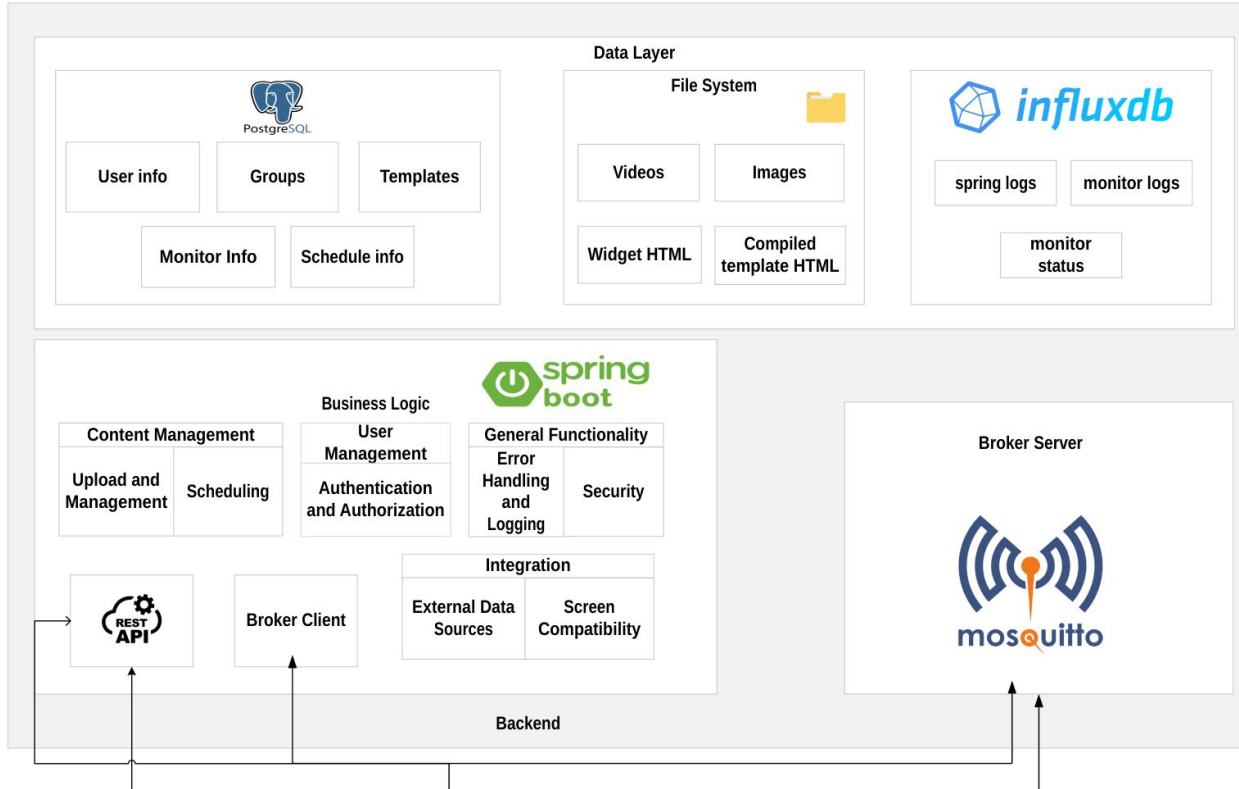
Create pull request

Architecture



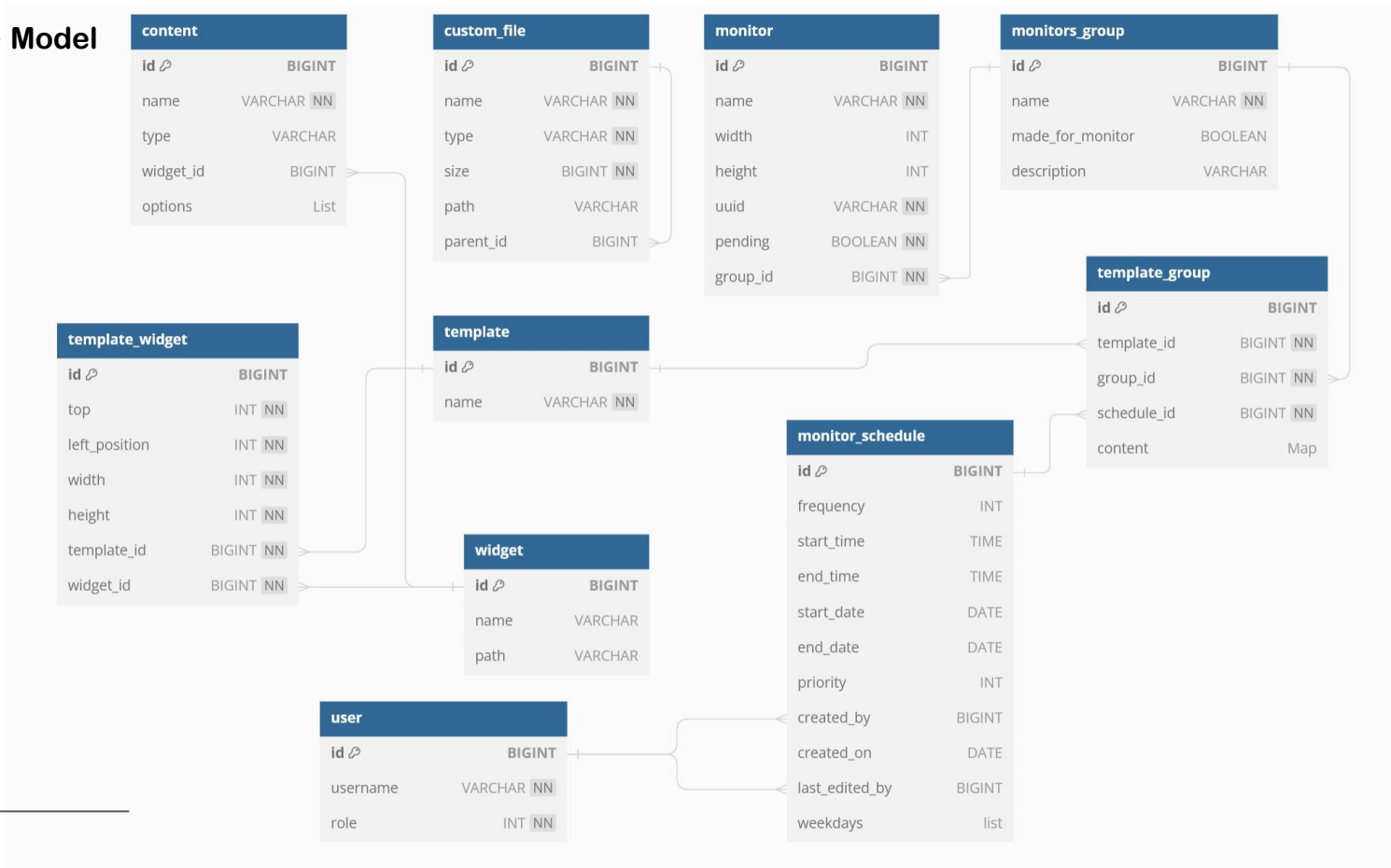


Backend Architecture





Database Model

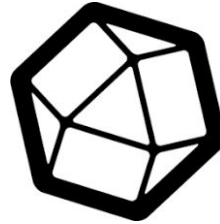




Endpoints



Documentation



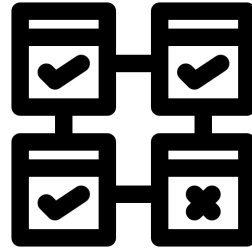
InfluxDB
Integration



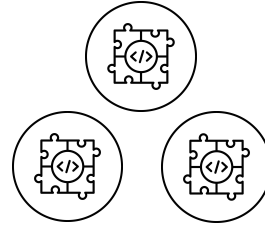
User
Authentication



Backend Development



Unitary
Tests

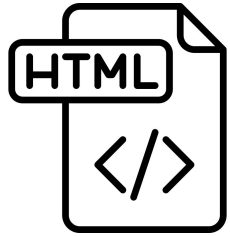


Integration
Tests

uasmartsignage

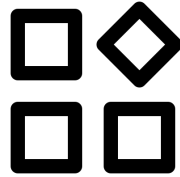
| Element | Missed Instructions | Cov. | Missed Branches | Cov. | Missed | Cxty | Missed | Lines | Missed | Methods | Missed | Classes |
|---|---------------------|------|-----------------|------|--------|------|--------|-------|--------|---------|--------|---------|
| deti.uas.uasmartsignage.Services | | 80% | | 52% | 89 | 177 | 141 | 708 | 4 | 76 | 0 | 9 |
| deti.uas.uasmartsignage.Controllers | | 84% | | 68% | 22 | 103 | 30 | 202 | 5 | 71 | 0 | 10 |
| deti.uas.uasmartsignage.Models | | 79% | | 0% | 17 | 168 | 27 | 81 | 13 | 164 | 1 | 13 |
| Total | 902 of 4 774 | 81% | 123 of 274 | 55% | 128 | 448 | 198 | 991 | 22 | 311 | 1 | 32 |

Tests Coverage



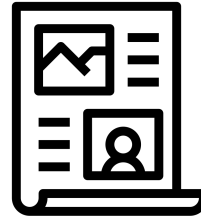
Base HTML
File

+



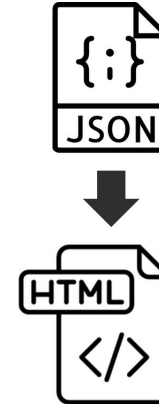
Widget

+



Content

+



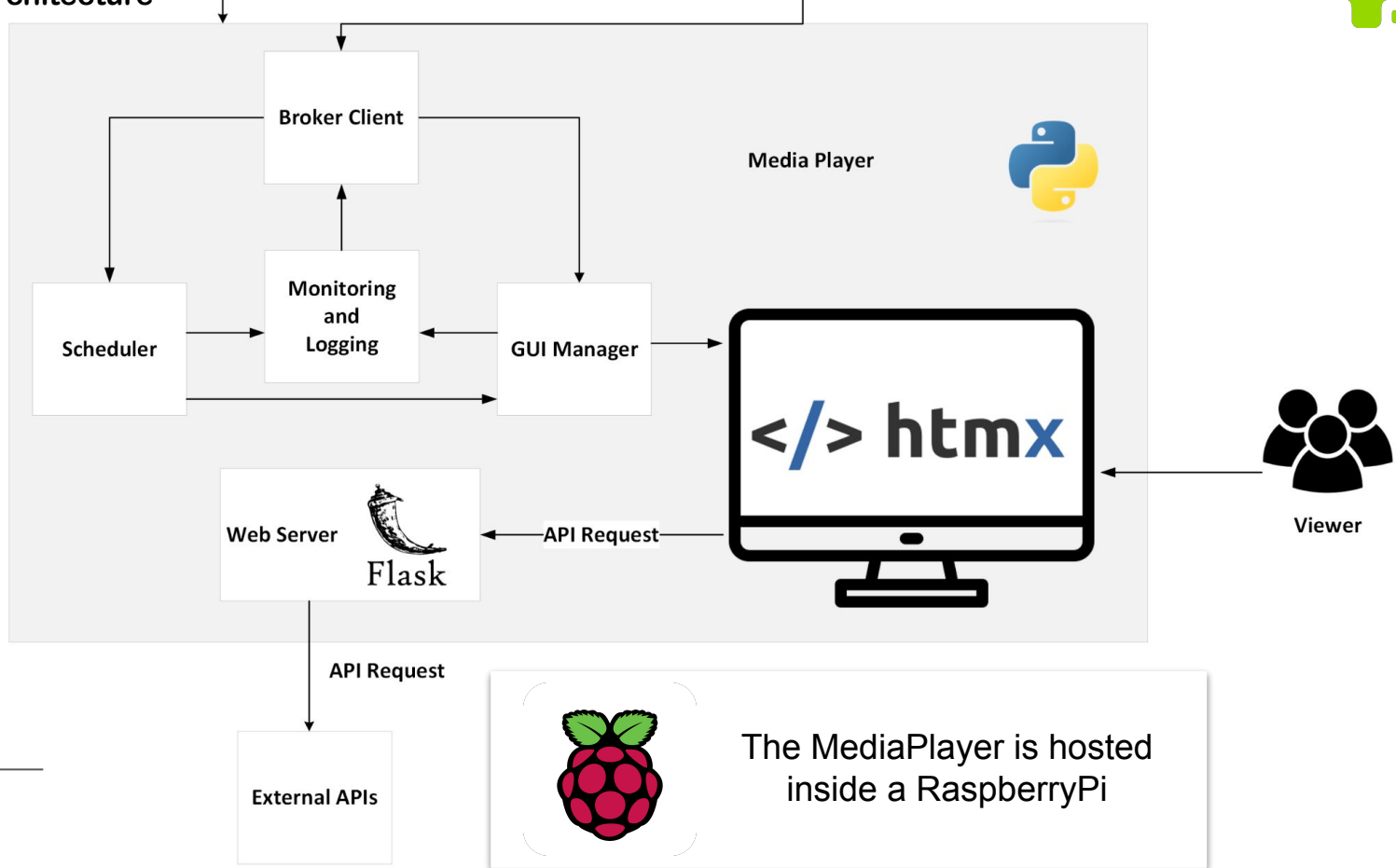
HTML template
converter

=

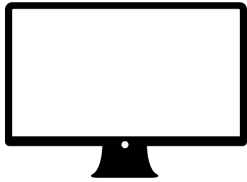


MP HTML
File

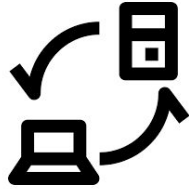
Media Player Architecture



Media Player Structure



GUI Manager



MQTT Client



Scheduler

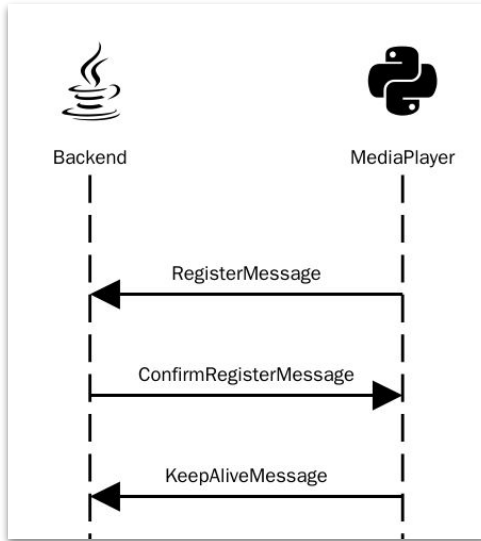


Web Server

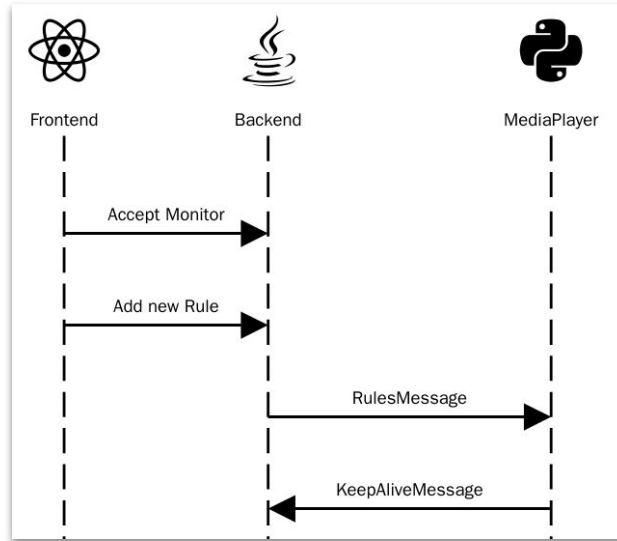
Message Protocol



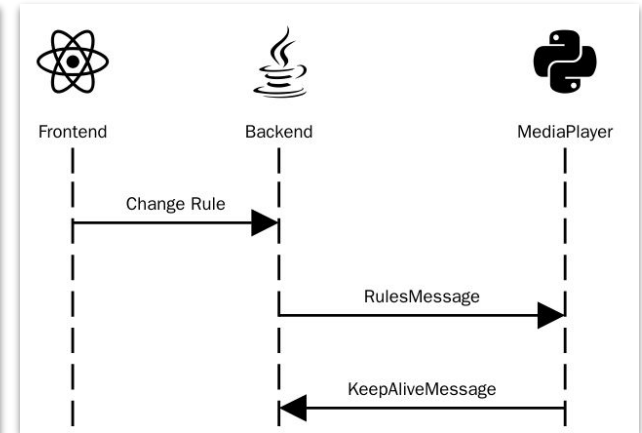
Registration



Accept Monitor and Create Rule

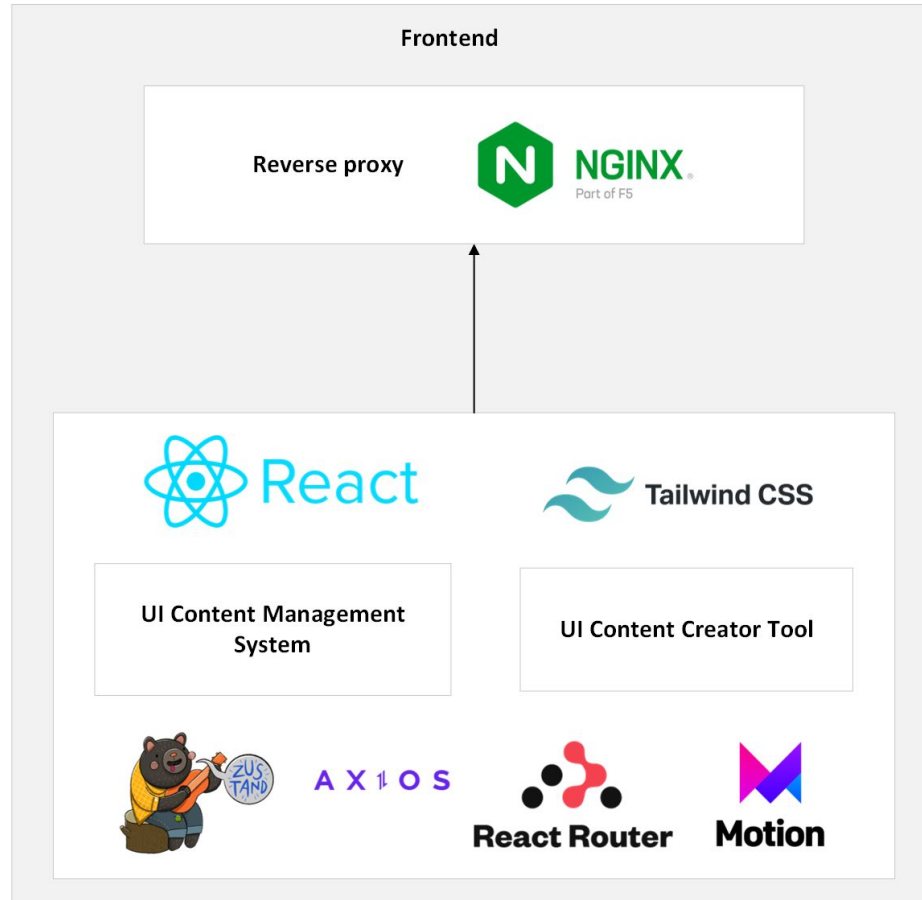


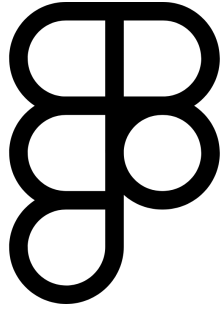
Update or Delete Rule



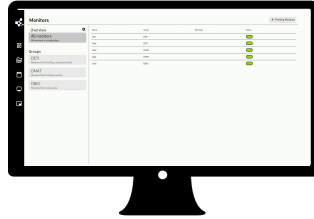
Normal Order

Frontend Architecture





Figma Prototype



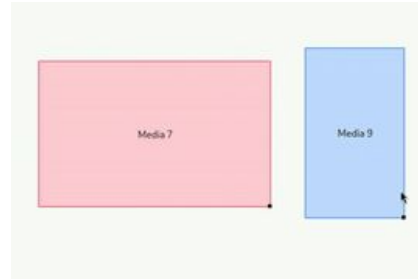
Static Page



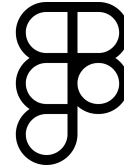
Api Integration



Testing Framer motion



Making Divs Interactive



Prototype and Api Integration



- MQTT websockets
- API and Frontend same port



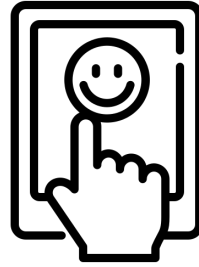
Work Results

initially designed pages:

- Dashboard
- Media
- Schedule
- Monitors
- Monitor
- Content Creature tool

Implemented pages:

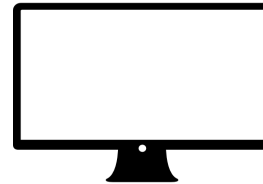
- Media
- Schedule
- Monitors
- Monitor(less features)
- Templates
- Template editor
- Login
- Users



User Friendly



Modular



Desktop only



UA Smart Signage



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ua-smart-signage-platform.github.io/Documentation-Website/

