



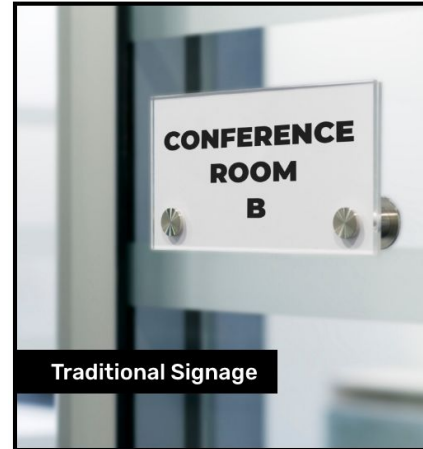
Milestone 3 Prototype Phase



Context and State of The Art



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



Context and State of The Art



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

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

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

Our Goal:

- Content Management System
- Content Creator Tool (CCT)



Personas



Director of DETI

Name: Nuno

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

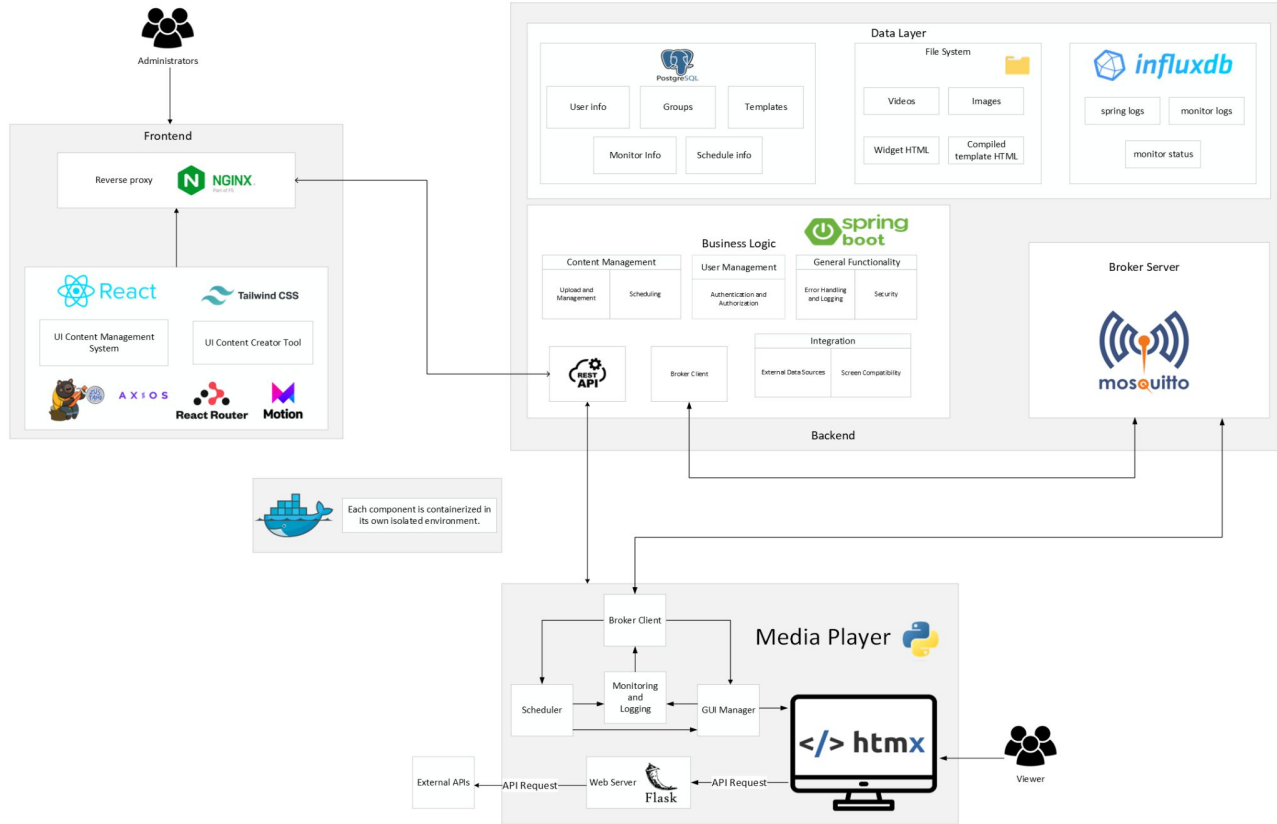
Name: Rodrigo

Age: 19

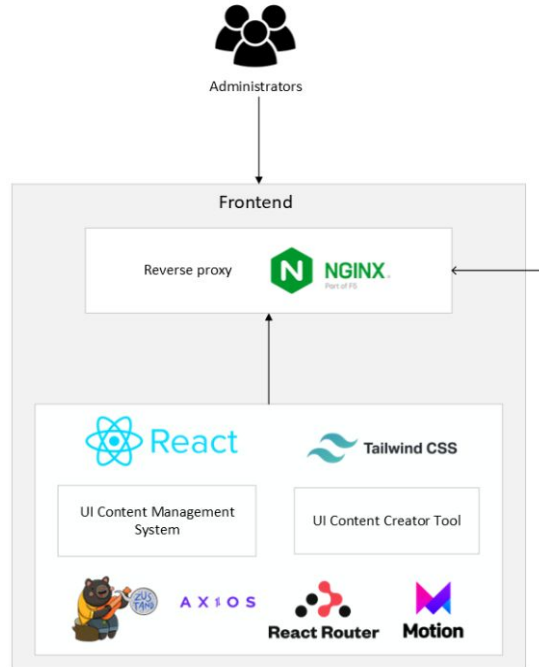
Occupation: Student

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

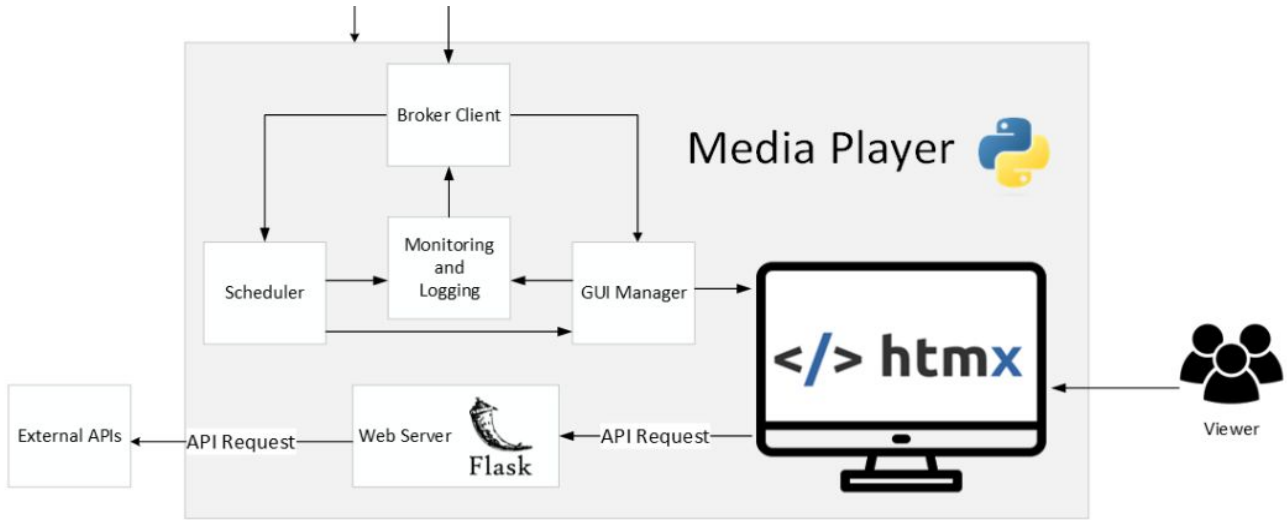
Architecture



Architecture

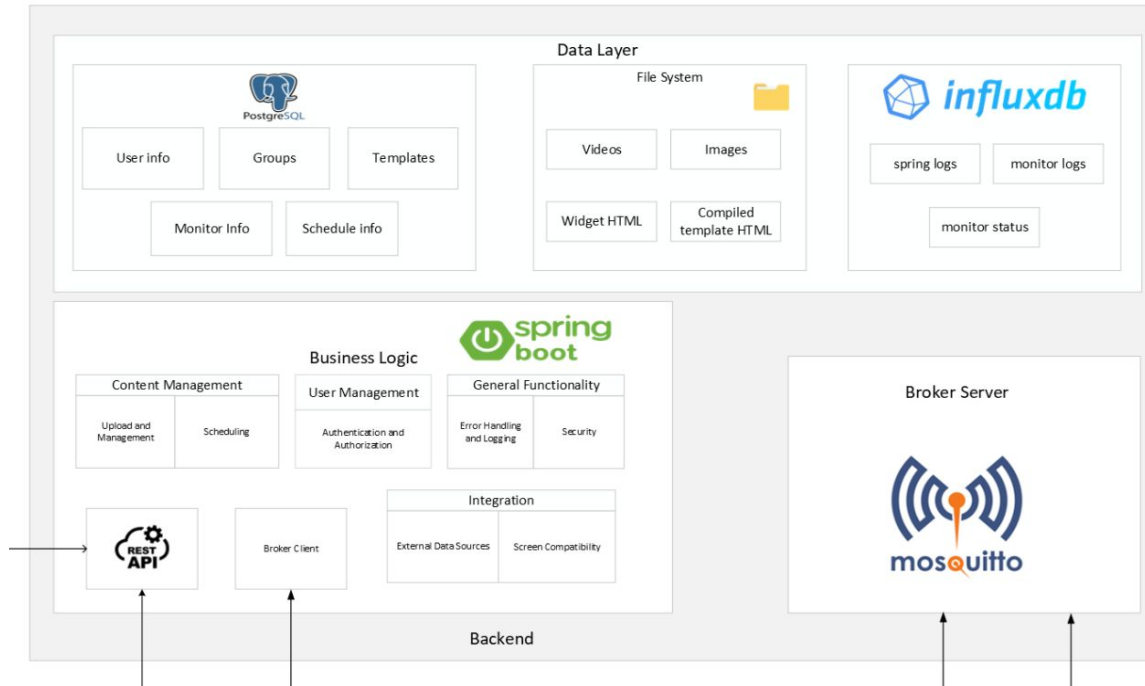


Architecture



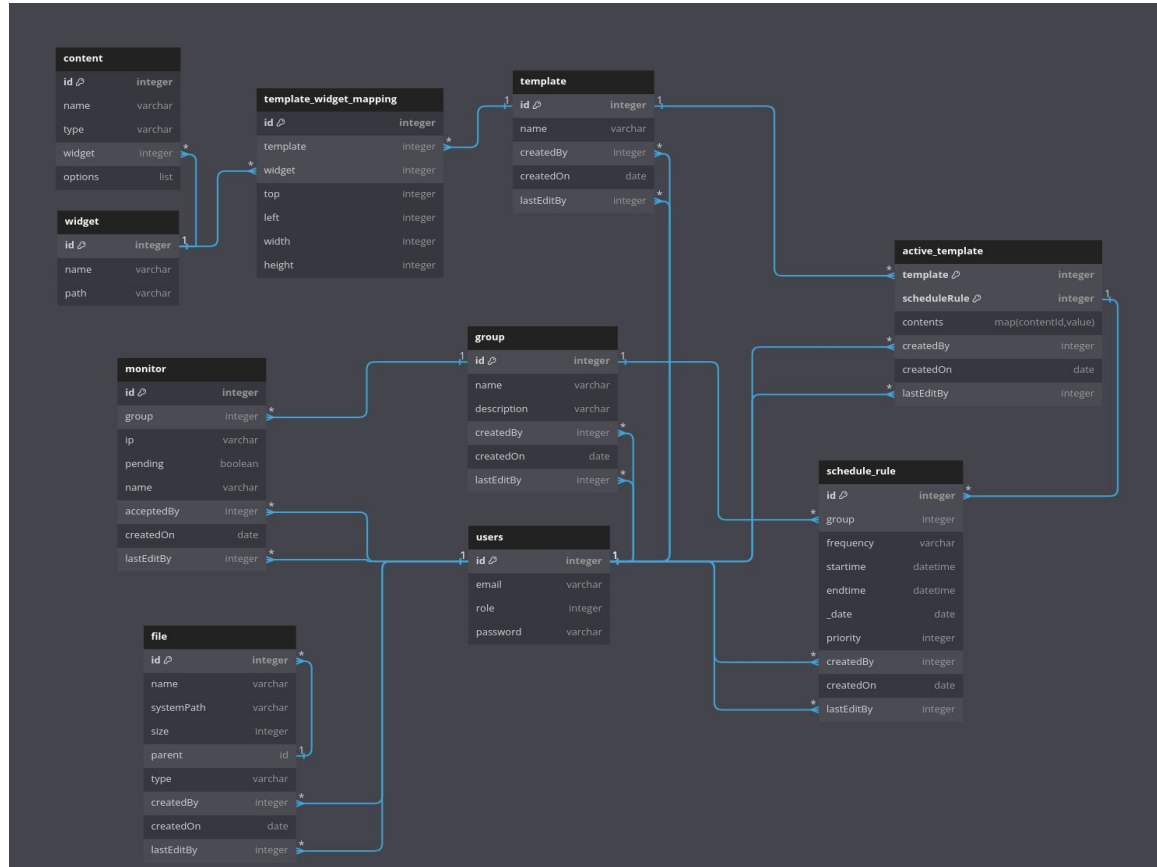


Architecture





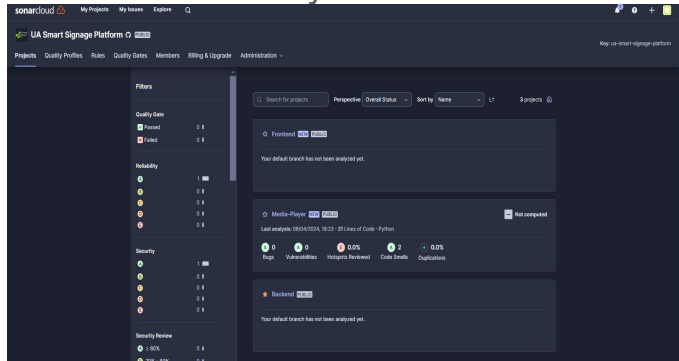
Database Model



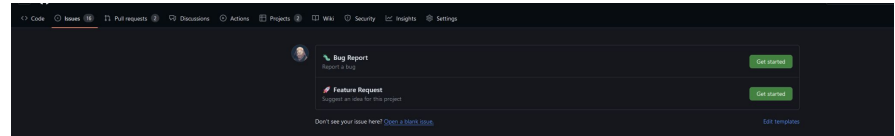


Management

SonarCloud Quality Gate



Templates for different issue types



Guidelines



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

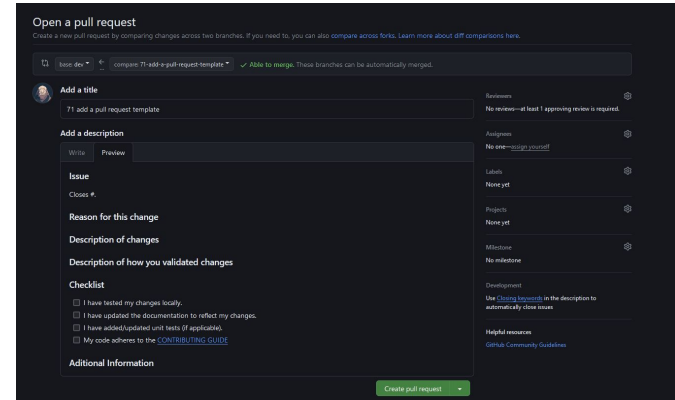
Welcome to UA Smart Signage! We appreciate your interest in contributing. Before you get started, please take a moment to review the following guidelines.

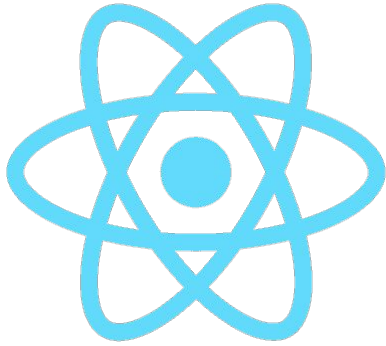
Reporting Bugs

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.

Pull Request Template





Static pages:

- Dashboard

Overview

All monitors

All monitors in a single place

Groups

DETI

Monitors from first floor, second and third

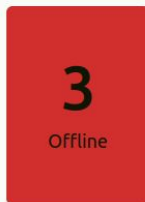
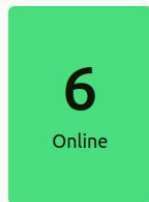
DMAT

Monitors from first floor and bar

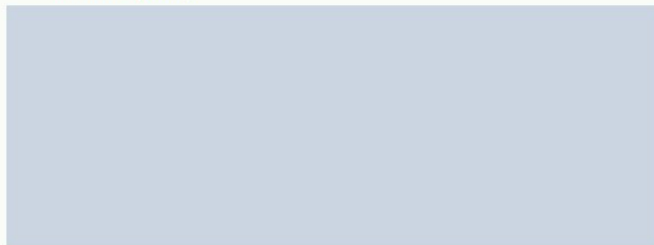
DBIO

Monitors from resting area

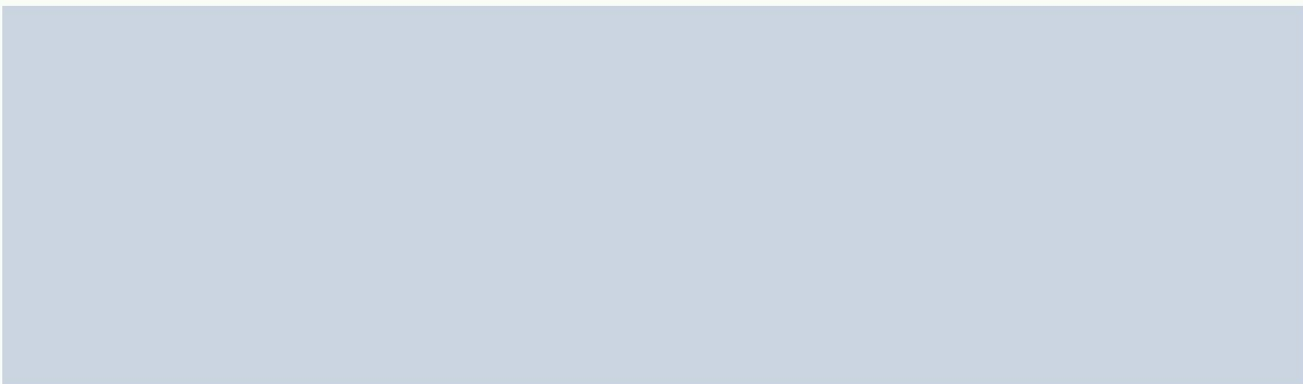
Monitors

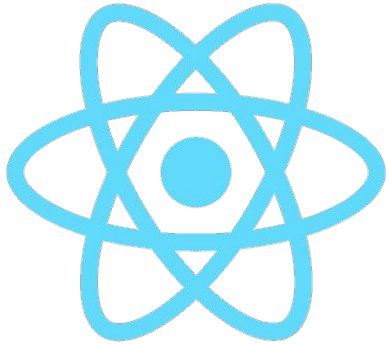


Downtime (today)



Logs (past 30 days)










Dynamic pages:

- Media
- Monitors
- Monitor Details
- Scheduler

Media

+ ADD home

 Name	Size	Date
 Logos	0 Bytes	
 50 Years Celebration	0 Bytes	
 Events.png	68 KB	
 DETI.mp4	4 MB	

Rows per page: 10 ▾ 1-4 of 4 |< < > >|

Select a file to preview it here



Monitors

+ Pending Monitors

Overview

All monitors

All monitors in a single place

Groups

DETI

Monitors from first floor, second and third

DMAT

Monitors from first floor and bar

DBIO

Monitors from resting area

Name	Group	Warnings	Status
hall	DETI		
flow	DETI		
door	DMAT		
pipa	DMAT		
train	DBIO		



Monitor

← Go Back

test



Template

DUMMY VALUE

Memory



IP

Group

test

Updated

DUMMY VALUE

Errors

DUMMY VALUE

Last Update

DUMMY VALUE

Preview



Schedule ⓘ

Select a group:

DETI ▾

Select a template:

template1 ▾

Submit



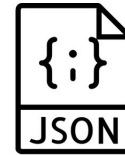
Endpoints



Documentation



Tests

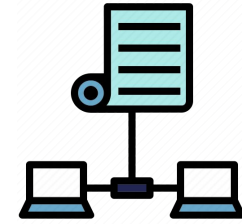


HTML template
converter

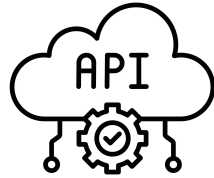
Backend and Media Player Integration



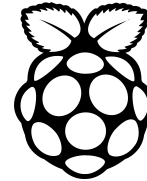
Communication
between System
Components



Protocol Definition
and
Implementation



External APIs



RPI5
Compatibility



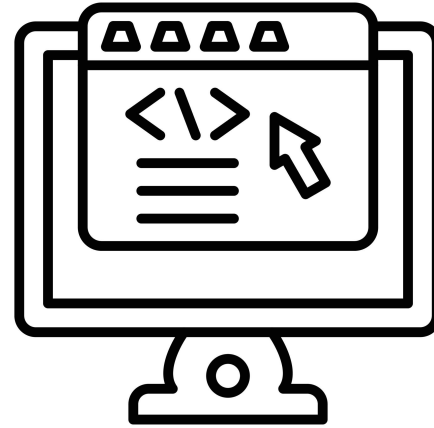
Change Template

VIDEO



Next Steps

- UI enhancements
- Schedule feature
- Content Creator Tool
- Dashboard

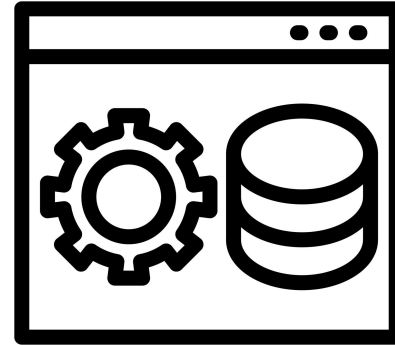


Frontend



Next Steps

- Remaining Tests
- Remaining User Stories
- UA IDP Integration
- Log storage using InfluxDB

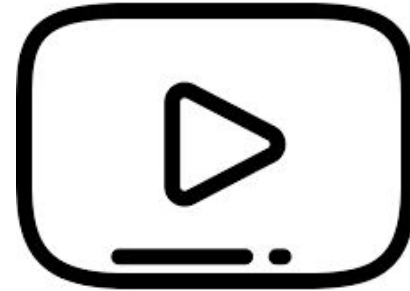


Backend



Next Steps

- Scheduler implementation
- Create interface for initial configuration
- Receiving video/image files
- Setting up linux image



Media Player

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

