

2019 Spring Mph

Student: Joseph Nguyen

Instructor: Dr. Masoud Sadjadi, Florida International University

Problem

The Federal government and MDC, Miami-Dade County, both have their own records on the homes in Miami Dade; however, only MDC updates their records on a daily basis.

So in order to keep the Federal government records updated MDC has to shift through hundreds of records manually to find discrepancies and update the government records.

When everything is done by hand the risk of human error increases.

Solution

Miami-Dade County Vacany Compliance offers a real-time unit tracker along with an up-to-date discrepancy tool.

Our tool assists the user by revealing the discrepancy between government and MDC records to help the user track these discrepancies in real time.

The user friendly table gives MDC the ability to view, filter, and sort through hundreds of records

Implementation

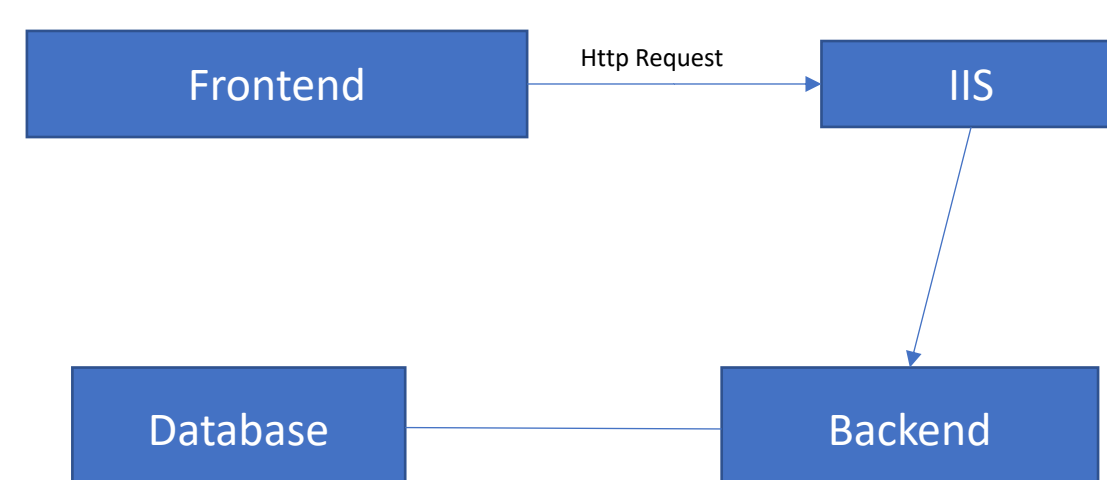
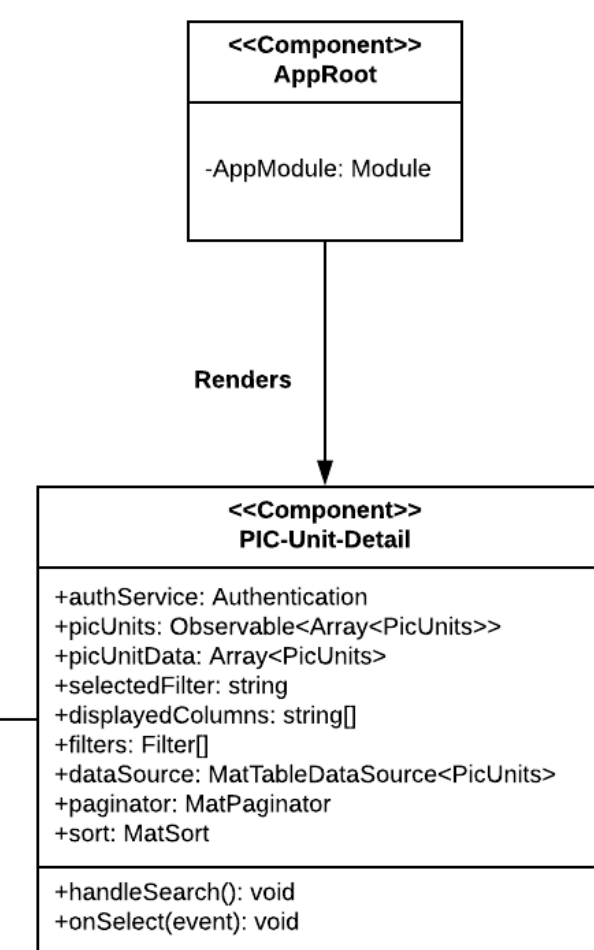
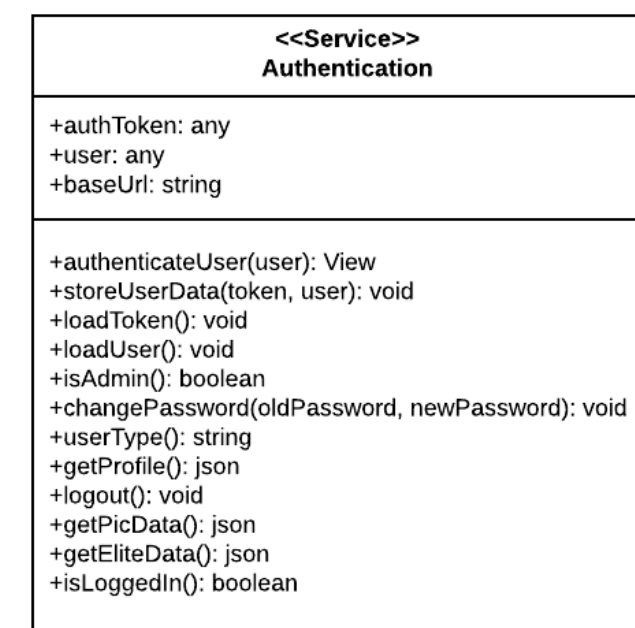
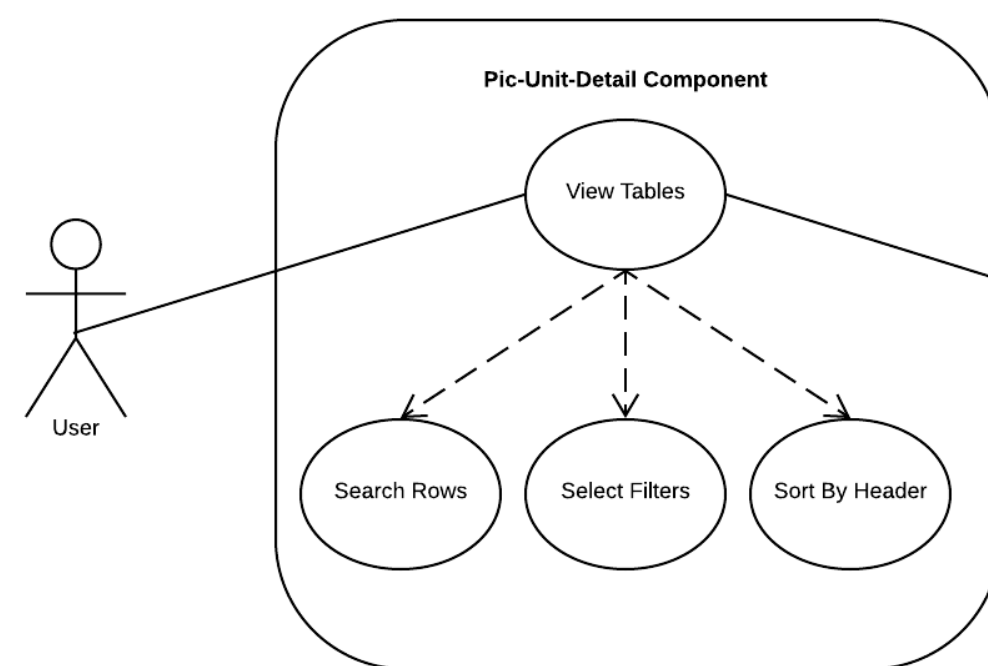
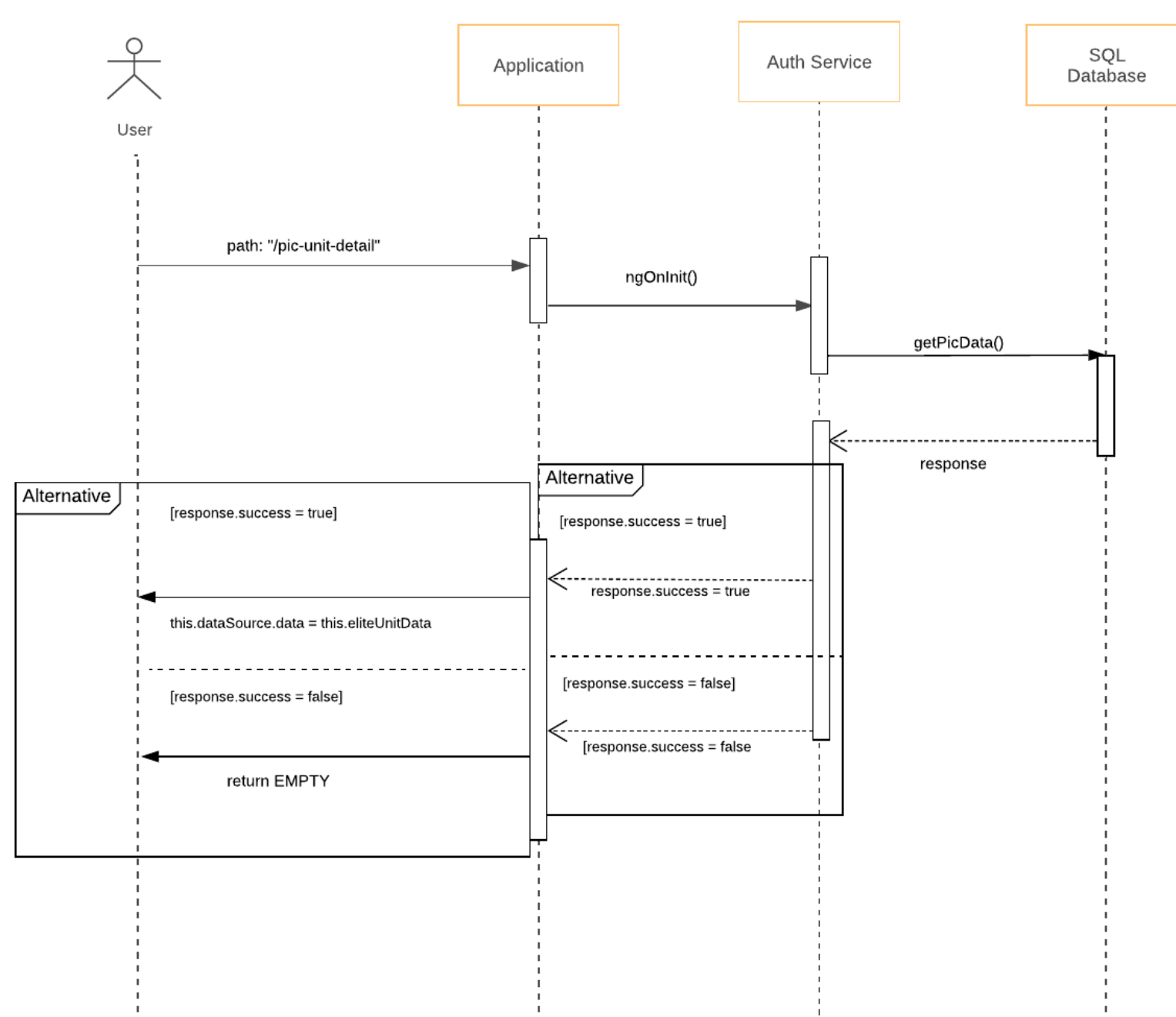
Frontend:

- Rebuilt frontend on Angular material
- Custom made import service

Backend:

- Built in python during version 1
- Added an endpoint in python for the frontend to request data from the database

Design



Current System

The version 1 MDC Vacany Compliance currently provides a user friendly system however data is not in real time.

Current Capabilities:

- Search function
- Filter function
- Sort function
- Download excel sheets
- Import excel sheets
- GPS location
- Discrepancy report
- Summary of Elite data
- Trend report

Mocks

Miami Dade Vacany Compliance

ELITE Unit Table													
Record ID	AMP Group	Bedrooms	Development Name	ETL Date	Full Bathrooms	Half Bathrooms	Housing Type Desc	HUD Project Description	HUD Project Number	Inspection Date	Inspection Results	Is Active	Is Excluc From PHA
FL00500004843-101	000048	2		07/17/2018	1.0	0.0		AMP00048	FL005000048			Yes	Yes
FL00500004843-102	000048	2	813-Scott Homes A (LITC)	07/17/2018	1.0	0.0		AMP00048	FL005000048			Yes	Yes
FL00500004851-202	000048	2	813-Scott Homes A (LITC)	07/17/2018	1.0	0.0		AMP00048	FL005000048			Yes	Yes
FL00500004819-203	000048	2	813-Scott Homes A (LITC)	07/17/2018	1.0	0.0		AMP00048	FL005000048			Yes	Yes
FL00500004829-	000048	2	813-Scott Homes A (LITC)	07/17/2018	1.0	0.0		AMP00048	FL005000048			Yes	Yes

Miami Dade Vacany Compliance

ELITE Unit Table													
Record ID	AMP Group	Bedrooms	Development Name	ETL Date	Full Bathrooms	Half Bathrooms	Housing Type Desc	HUD Project Description	HUD Project Number	Inspection Date	Inspection Results	Is Active	Is Excluc From PHA
FL00500004824-102	000048	0	813-Scott Homes A (LITC)	07/17/2018	0.0	0.0		AMP00048	FL005000048			Yes	Yes
FL00500004829-102	000048	0	813-Scott Homes A (LITC)	07/17/2018	0.0	0.0		AMP00048	FL005000048			Yes	Yes
FL00500004838-101	000048	0		07/17/2018	0.0	0.0		AMP00048	FL005000048			Yes	Yes
FL00500004841-105	000048	0	813-Scott Homes A (LITC)	07/17/2018	0.0	0.0		AMP00048	FL005000048			Yes	Yes

Acknowledgement

The material presented on this poster is based up the work supported by Miami Dade, I would like to thank my product manager Richard Roda and my team member Alex Angee