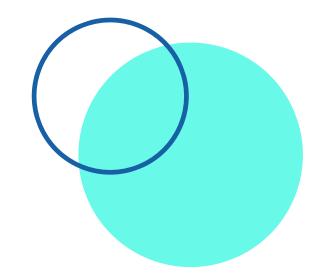


Antonine University - Final Year Project

# E-DISPENSARY

Afrah Hassan - 201720102 Ahmad Obeid - 201720443

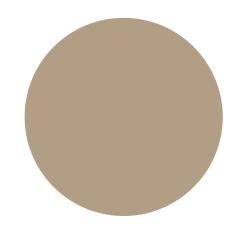
#### OUTLINE

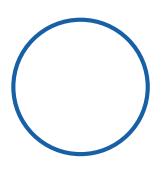


Problem Statement
Project analysis
Constraints
Current implementation showcase
Challenges
Future work

# PROBLEM<br/>STAEMTENT

- E-Health in Lebanon lacks a user friendly portal to manage data online.
- Small medical centers still operate exclusively on pen and paper.
- Building a digital infrastructure will streamline operations

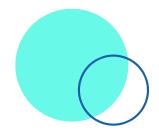




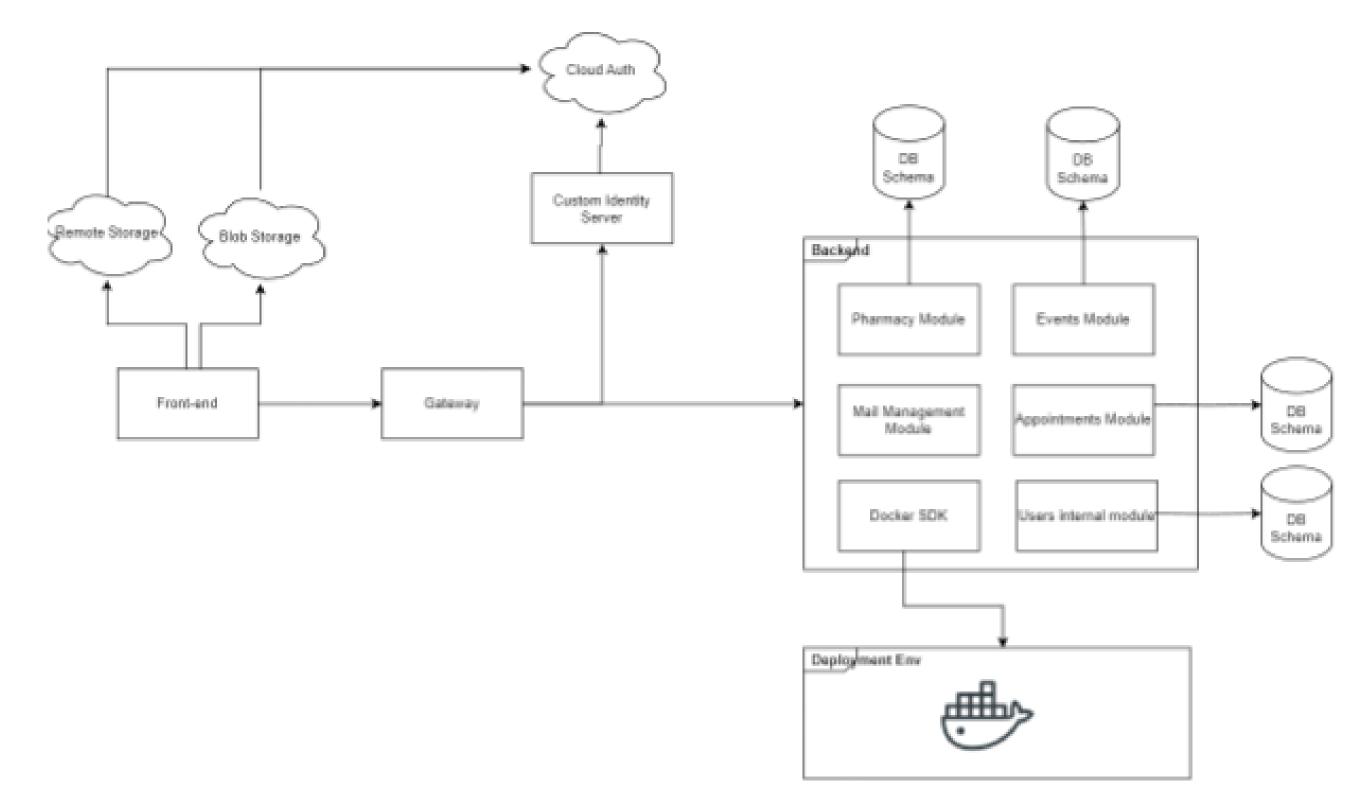
#### MJO BEIRUT

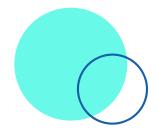
- MJO is a non-profit that povides different services including a social medical center for health services.
- The goal is to have a deployable project that will be integrated into their different sites





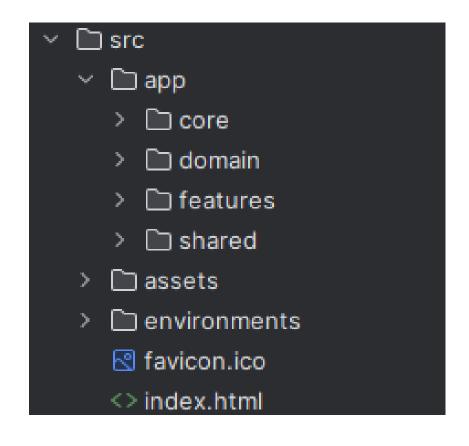
#### PROJECT ANAYSIS

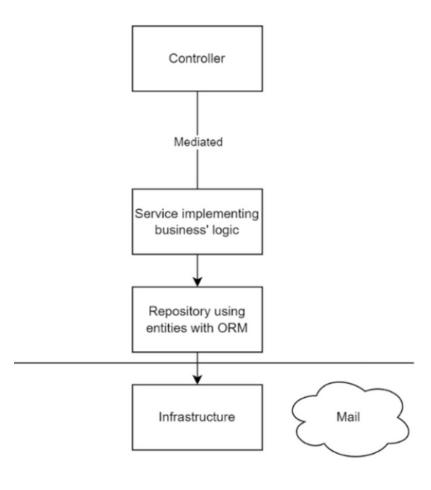


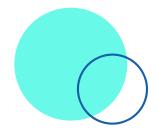


#### CODE STRUCTURE

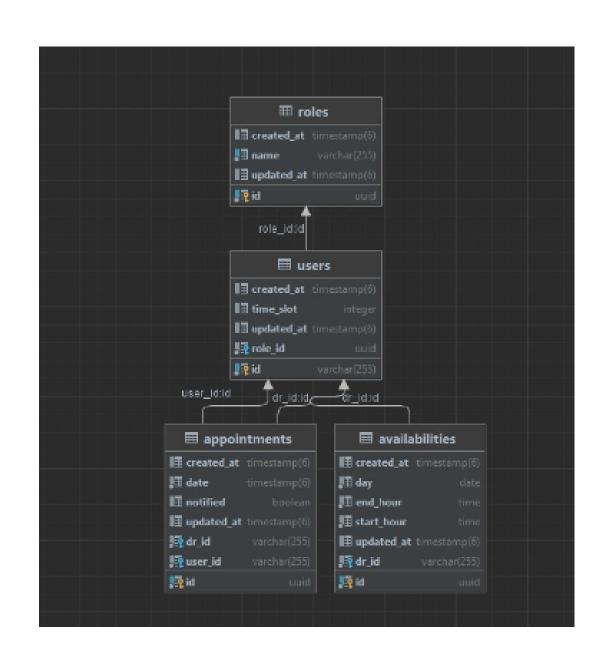
 As scalability is the main goal, the code was structured in multiple tiers

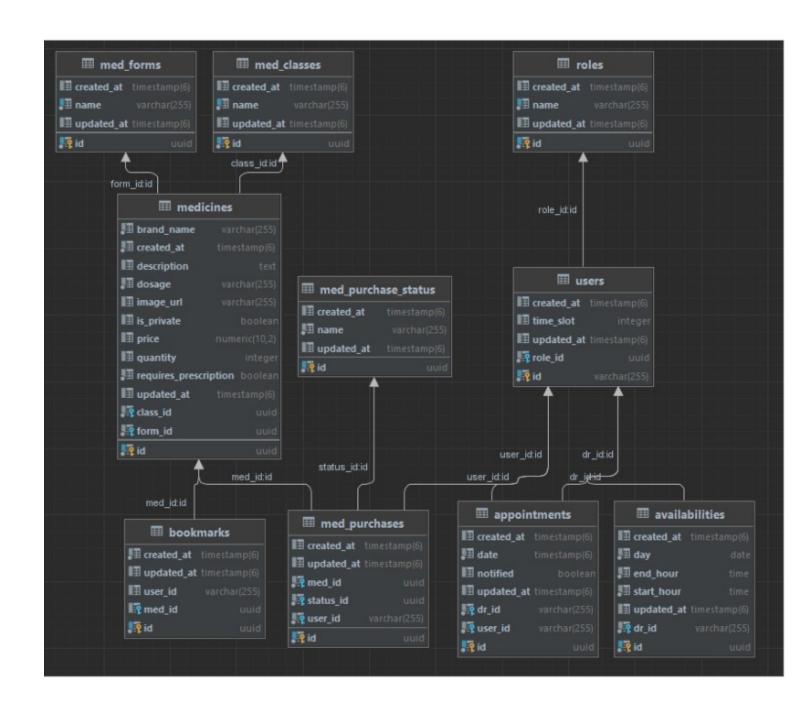


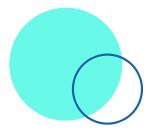




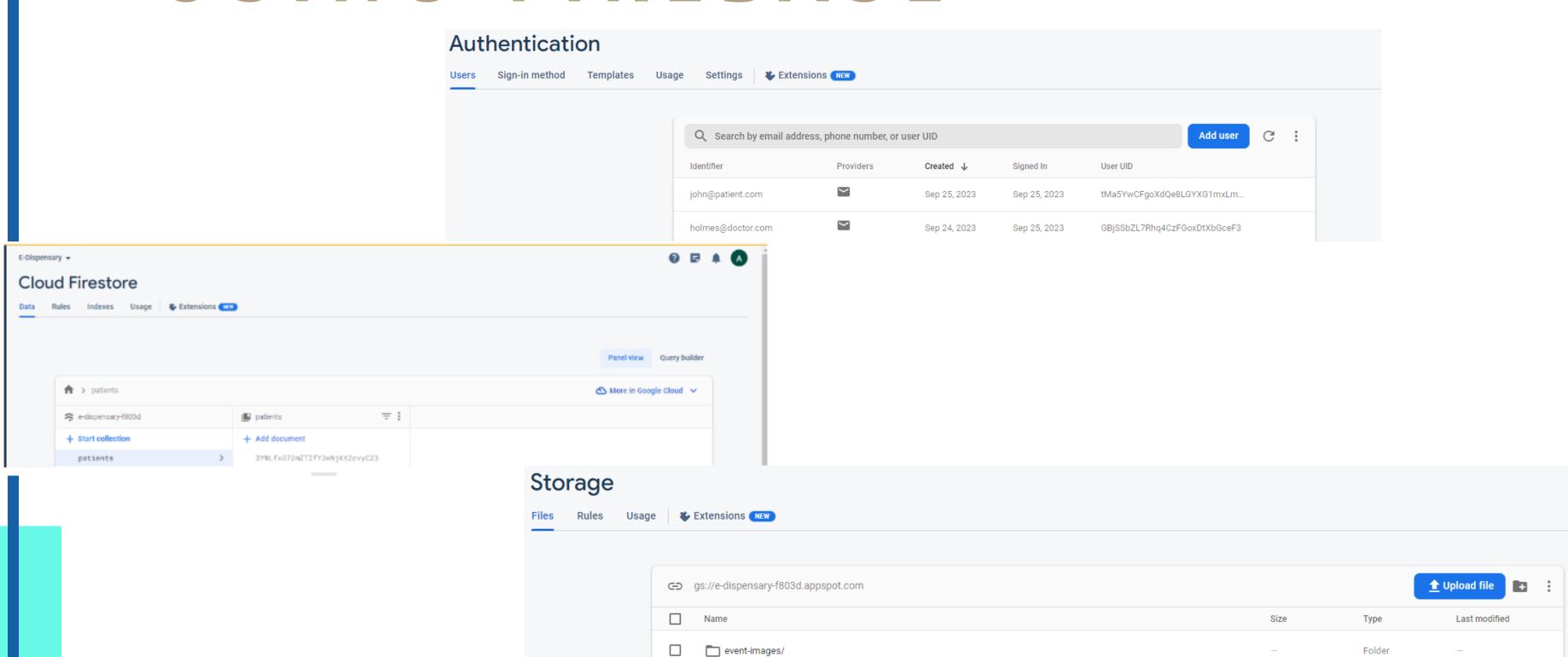
## DATABASE, POSTGRESQL



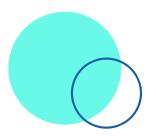




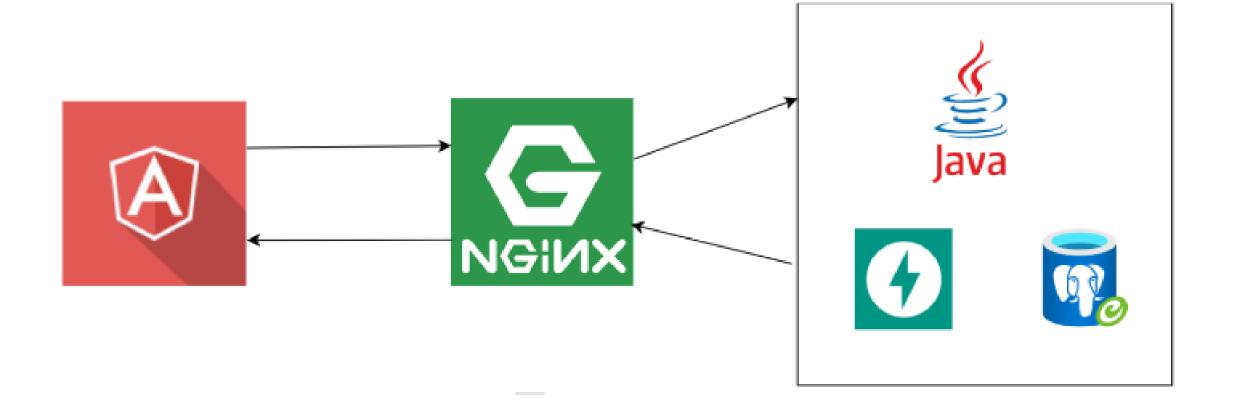
#### USING FIREBASE



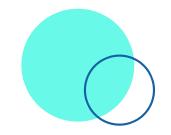
Folder



### NGINX

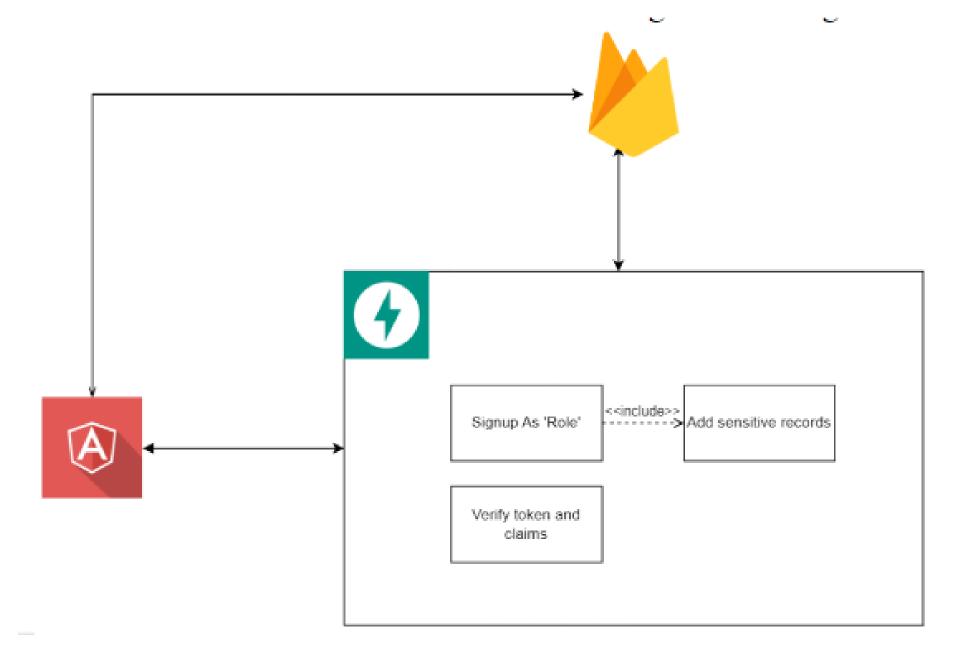


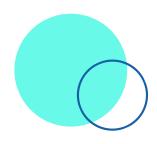
Used as gateway and proxy



# CUSTOMIZED FIREBASE

AUTH



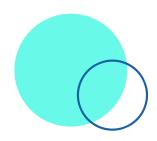


#### DOCKER SDK

#### volumes:

- /var/run/docker.sock:/var/run/docker.sock

Connects through docker socket to start and stop running containers



#### CURRENT IMPLEMENTATION

#### Main modules

There are three main modules and a helper class library.

- ChatServer
- > 📭 Client
- CommonClasses
- DatabaseServer



#### CHALLENGES

#### Date handling in Java

We had to learn Spring boot. The appointment module focused on date management which had its own challenges due to the language.

#### **UI** integration

The UI had many different dynamic sections to be tracked

#### Future work

Data analysis

To help admins make decisions

Multi-Language support

With translation option and management of translation files

# THANK YOU