Frankenhaus - Hospital app

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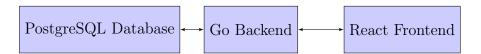
November 1, 2019

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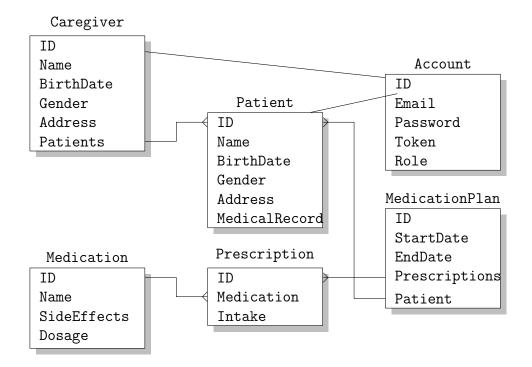
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1 Architecture



1.1 Database

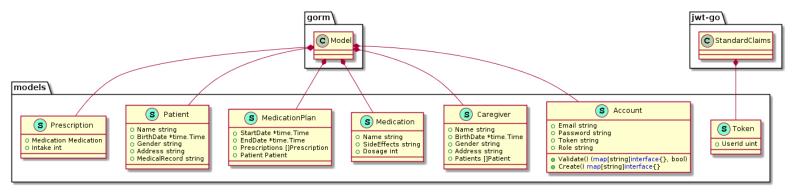
The databse is located on a amazon webserver provided by heroku, it can be remotely accessed if proper credentials are provident by the backend and the communication port isn't blocked.



The Database uses the code-first model and it is auto-generated and updated by the **gorm** library, IDs and relashionships were drawn for clarity, but they are only implicitly declared in code, gorm handles all the primary/foreign key management without any explicit interaction.

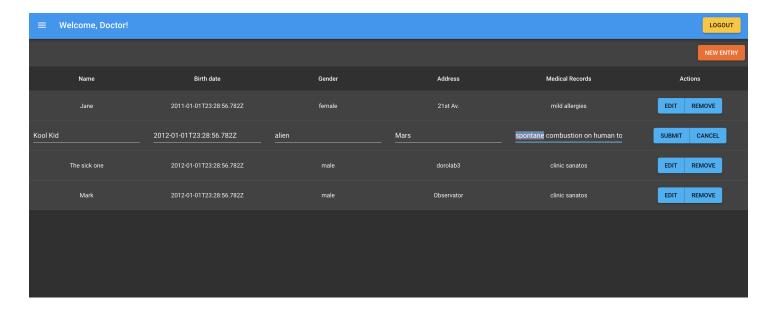
1.2 Backend

The backend was written in go, much of the heavy lifting is done by libraries for ORM, JWT authetification and JSON decoder. I implemented generalized CRUD operations with reflection and handle the routing so that every route handles its designated object type with all CRUD operations.



1.3 Frontend

The frontend was written in React, it all revolves around a generalized table editing component which is repurposed for the different objects and use cases.



All users can sign in to get to their respective application and everything is secured with and autherification token, so that no unauthorized party can access someone else's data.

	6
	Sign in
Email Address *a@b.c	
Password *	
	SIGN IN
Forgot password?	Don't have an account? Sign Up
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2 Installation

To run this application the following **dependencies** must be met:

- 1. textbfGo (see installing go)
- 2. textbfNode with textbfNPM (see installing npm)
- 3. Port 5432 is not blocked(DB access)

The textbfsetup is pretty straight-forward:

- 1. Run in the **backend** folder:
 - (a) **./run.sh**
- 2. Run in the **frontend** folder:
 - (a) sudo npm i
 - (b) npm run start

If the application doesn't start automatically, access localhost:3000