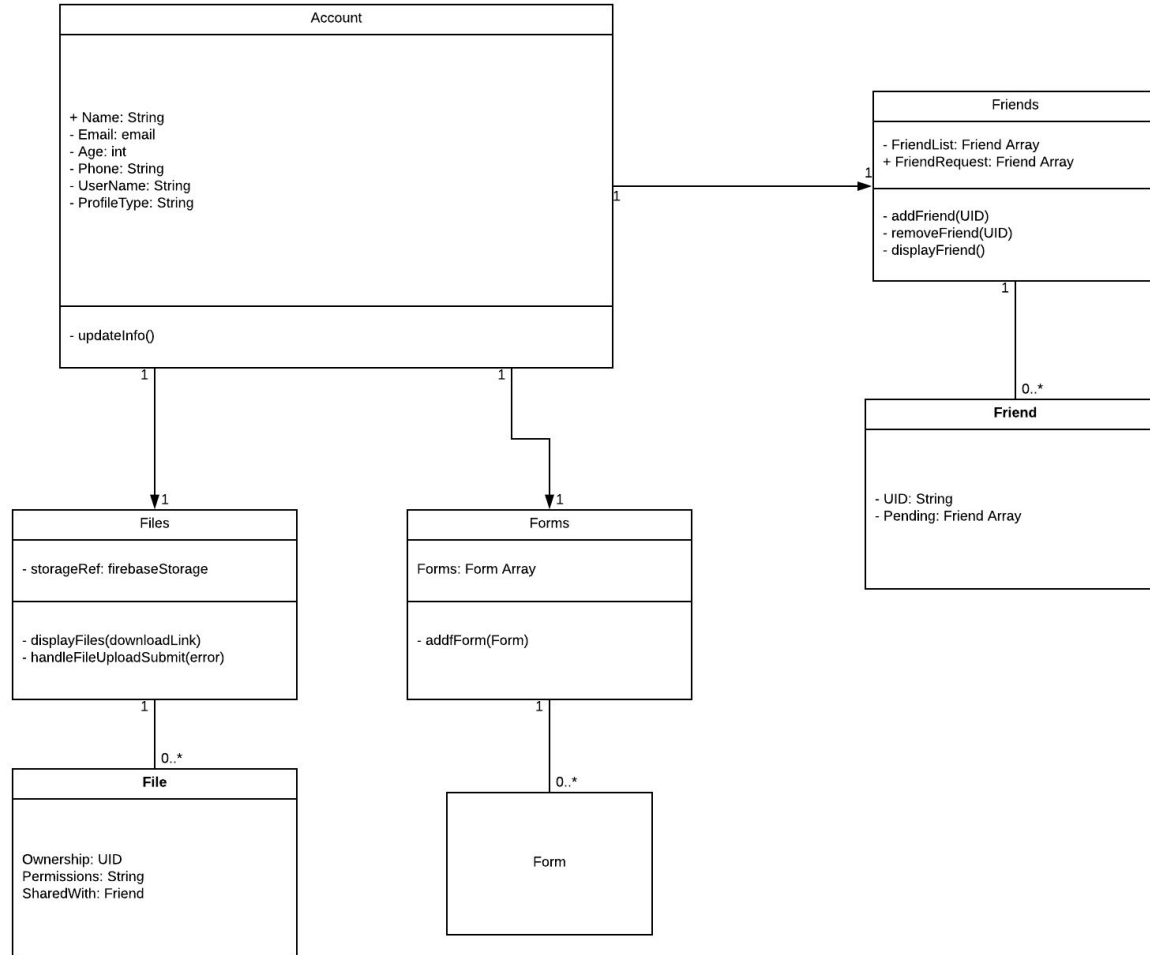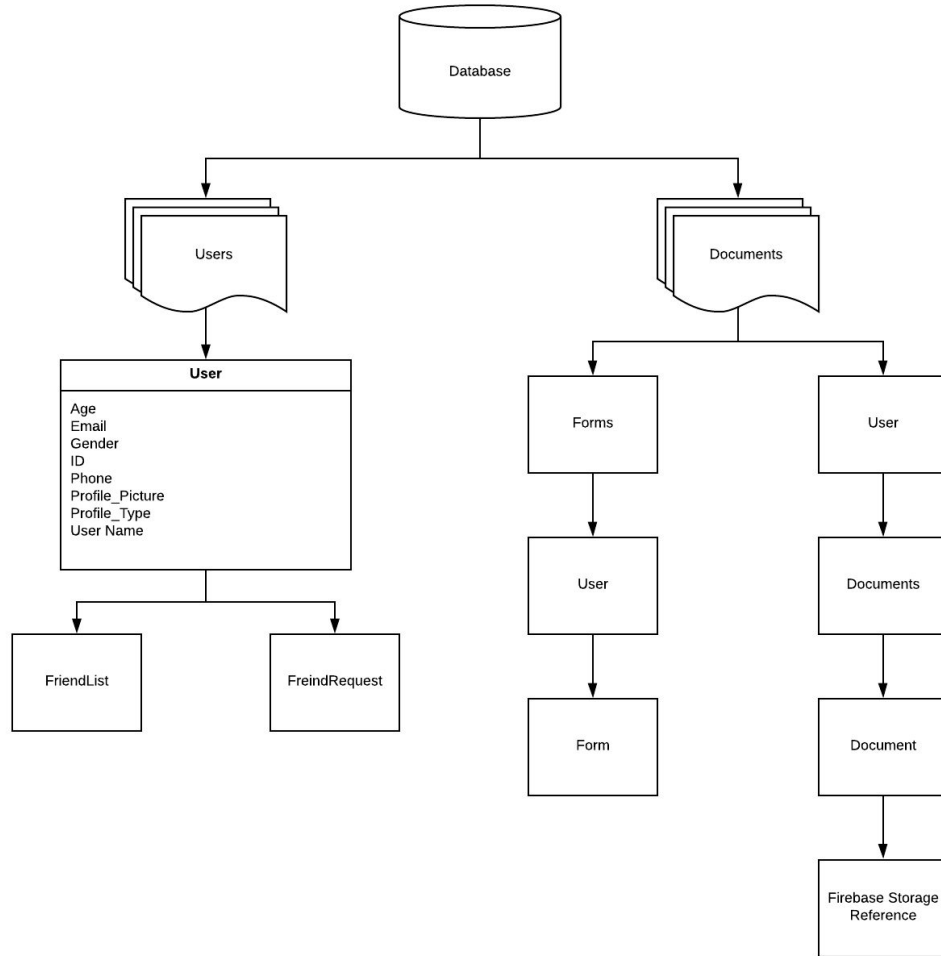# Medical Social Network

Group 9

System Architecture and Design

- Designed as a basic social network with Firebase Realtime database
    - Focusing on sharing information

- Authentication with Firebase Authentication via Google
    - Automatic Med App user creation
    - Login Information

- User information is stored in a JSON Tree
    - Database Schema

- User controls their data
    - Friend Request System

- Ease of use
    - Patients
    - Doctors

Maintenance and Extension

- Firebase
    - Authentication
    - Storage
    - Database

- Using JavaScript

- Accessibility based on level
    - User role is stored

Unit Testing

- White-box testing was used.
- For unit testing the code the JavaScript test framework Mocha was used, along with Istanbul for viewing code coverage/running the tests automatically.
- Selenium was then used for anything not encompassed by the Mocha tests.

Testing Coverage

-Reported with Istanbul as 24.14% of all statements and 35.29% of all functions.

-More of the code had tests for it, using Selenium, so the percentages reported by Istanbul don't accurately reflect how much of the code base was tested.

```
sign up validation
    ✓ Should accept a username with letters only.
    ✓ Should not accept a username with numbers only.
    ✓ Should not accept a username with numbers and letters.
    ✓ Should not accept a username of an empty string.
    ✓ Should accept a userid with length=mx.
    ✓ Should accept a userid with length=mx+1.
    ✓ Should accept a userid with length between mx and my
    ✓ Should not accept a userID with an empty string
    ✓ Should not accept a userID of length my.
    ✓ Should not accept a username of length my+1.
    ✓ Should not accept a username of length mx-1.
    ✓ Should accept an email in the correct format.
    ✓ Should not accept an email in the format of a website.
    ✓ Should not accept an email in the format of just characters.
    ✓ Should not accept an email with a period and @ in the wrong order.

update-validation
    ✓ Should accept 1 as a valid age.
    ✓ Should not accept -1 as a valid age.
    ✓ Should accept 150 as a valid age.
    ✓ Should accept 0 as a valid age.
    ✓ Should accept foo@foo.com as a valid email.
    ✓ Should not accept Dot.Com as a valid email.
    ✓ Should not accept This.isnotanemail@notanemail as a valid email.
    ✓ Should not accept invalidemailAddress@Nothingdotcom as a valid email.
    ✓ Should not accept invalidemailAddress as a valid email.
    ✓ Should accept N/A as a valid gender.
    ✓ Should accept a string with a ? as a valid gender.
    ✓ Should accept an empty string as a valid gender.
    ✓ Should accept female as a valid gender.
    ✓ Should accept a string of 99 char as a valid gender.
    ✓ Should not accept a string that is 101 char long as a valid gender.
    ✓ Should not accept a string that is 100 char long as a valid gender.


31 passing (444ms)
```

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	24.14	23.26	35.29	24.14	
public	18	16.67	27.27	18	
update-validation.js	18	16.67	27.27	18	... ,96,98,103,106
public/auth	32.43	31.58	50	32.43	
signupvalidation.js	32.43	31.58	50	32.43	... 62,63,69,70,71

Special Features in App

- Google Default Info
- Designed to be easy to read

Medical Application