*Bachler FYP Report*

*Software and Electronic Engineering*

*Student no: G00335896*

**Electronic Health Records**

**Requirements, Design, and Development**

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**Declaration**

This project is presented in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Software & Electronic Engineering at Galway-Mayo Institute of Technology.

This project is my own work, except where otherwise accredited. Where the work of others has been used or incorporated during this project, this is acknowledged and referenced.



# ACKNOWLEDGEMENTS

I would like to take this time to thank many people who over the years and course of the project have helped motivate, encourage, and pushed me through hard time inside and outside of college.

I would specifically like to thank and name individuals who have been there for me throughout my college years and supported me through and through.

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I would like to thank my lectures who have helped and assisted me over the years when necessary especially my project mentor Mairtin O’Conghaile, I would like to thank Codec for giving me work experience and valuable skills which have been in my favor in my final year.

# ABSTRACT

For my final year project, I choose to work through a project on the medical sector. The main reason for choosing this project and where I had come up with the idea was on internship at Codec, I was working on a project with the Health Information Quality Assurance (HIQA) on implementing registration for hospitals online.

The idea had sparked as I realized the absence of online implementation in the medical industry, my project is to implement an online patient records for doctors to review patient records, with the bare information they need while proceeding with the task at hand, Electronic Health Records. The main goal of my project was to create an online patient recording that systematically organized their data making working life for any medical practitioner easier.

In defining the project scope and understand what features would be best suited for this application I had surveyed medical practitioners to understand the demands of the project. Most medical practitioners would prefer organization in a system making it easier for them to follow, I have organized out patients in member’s cards with filters allowing doctors to search for patients, then when they have found set patient they will be able to read/write into the patient’s data to the most up-to-date information.

In setting up the project and the approach taken I had received advice from my mentor at Codec.

I had used the same technologies and methods as Codec, Visual Studio Code, Dot Net, Microsoft Entity Framework Core, JavaScript (Angular) and Azure. The reason being was to gain more experience in this field of full stack development as I will be working with them again in 2021.

Throughout the duration of the project I have accomplished a great understand for the Dot Net Core Framework and Angular Framework which I hadn’t worked on in college. I have accomplished full communication between the 2 main applications in my project Single Page Application (SPA) and Application Programming Interface (API) through a HTTP Pipeline.

In conclusion, in developing this full stack project I have furthered my knowledge of front-end to back-end development and communication. I have also gained great knowledge of the medical industry as to why this project has not been developed as technology advances. I would hope that in future my project could be seen as a steppingstone for future development with a project similar to this.

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# Introduction

This is Software Documentation forthe project “Electronic Health Records”. It provides overall description of the project. This documentation includes product perspectives in form of its functional requirements and non-functional requirements providing the description for each functionality. It also encircles the scope of the project and main functionalities of the system. It is included design and architecture of this system, which explains the backend structure of this system.

## **Purpose**

This document shows the software documentation for the project **“Electronic Health Records”** underdevelopment, and to give insight of the project lifecycle as I developed it throughout my academic year.

## **Problem Statement**

As for the doctors and medical practitioners face different problems in keeping record of patients and doctors. To keep the track of patient medical history is also a great challenge for hospitals and doctors. Keep all these records manually and updating these records on daily bases add irrelevant efforts for the medical staff in form of time consumption and financial expanses. In this modern era, they must waste their precious time for keeping records and managing these records.

## **Proposed Solution**

I decided to develop a web application for medical practitioners which will systematically organize their set patients, allow them to read information from patients, editing information to current up to date information and also to register new patients to the system.

## **Scope**

This system will have Web application. There will be web application for Administrator. Application will have all functionalities mentioned below in the section-1.6. It will also meet the quality requirements of security, privacy usability, performance and other aspects as mentioned in detail in section-4.5 below in this document.

## **Product Functions:**

The under-development system will have following functions:

* **Login/Register**
* **User Profiling**
* **Photo Uploading**
* **Forms and Reactive Forms**
* **Managing Records**
* **Watch List**
* **Advance Search (Filters)**
* **Messaging** 
  1. **Intended Stakeholders**
* Project Supervisor
* Medical Practitioners (Doctors/Nurses)
* College Lectures

# Overall Description

In this section, we will provide background information about technological information of the system. Although we will not describe them in detail, we will introduce general factors that affect the product.

## **Product Perspective**

**Electronic Health Records** is implemented as a full stack project back-end and front-end development. Back-end communicating with the database and the front-end converting data to graphical interface for the user with both back-end and front-end communicating through a HTTP Pipeline. There are major benefits to this project as it will reduce the main errors in recording data, organization of records and request time for health records. My project is aimed at a small-scale local GP, which will give a more realistic view of how the project would be put into place in the real world and then could possibly be implemented into hospitals.

## **User Classes and Characteristics**

|  |  |
| --- | --- |
| **Class Name** | **Characteristics** |
| **Admin** | Admin is a role in the system which can use all administrative functions of application to perfume required functionalities. |
| **Doctor** | Doctor is a role in the system which can manage the record of the patients. |
| **Patient/User** | Patient/User role in the system can register, create profile and have Read only rights. |

## **Technologies Used for Development**

### **Version Control**

#### **GitHub**

I used GitHub as version control for recording changes to the project.

### **Languages**

#### **HTML & CSS**

HTML is a software solution stack that defines the properties and behaviors of the web page content by implementing a mark-up-based pattern to it [5].

CSS is a style sheet language used for describing the presentation of a document written in a mark-up language like HTML [6].

With the front-end of the project being developed in Angular, which designs web applications in components, each component that was made has a specific HTML and CSS file allocated to it.

I found this very helpful when designing the webpage as I could design the components without having to go too far inside the index HTML page and the Style CSS file, this also helped to keep high standard of organization to the front-end application and the files/components involved.

#### **NodeJs (Angular)**

Angular is a front-end Typescript-based open source web application framework led by Angular Google Team. [7]

Angular has a vast number of downloadable libraries and packages, which were very helpful when designing the Web Application. I used a HTTP Client library which made it easier making HTTP Requests to the back end of the application.

Agular’s approach to developing web application is component-based [8], meaning that the web application can be divided into each component, each component can be then used to give off data graphically to the client. In my project on the front-end side, I have a many list of components which include the nav component, message component, member’s folder which contains 5 components all related to the member, I will be discussing these in more detail in SPA section.

#### **ASP .Net Core (ASP Dot Net Core)**

ASP .Net Core is a cross-platform open-source framework for building modern, cloud-base, internet connection applications. [9]

.NET is a Microsoft led framework and Microsoft community base application. I have used .NET in my project as the back end of the project, which focuses on databases, scripting and the architecture of the website. [10]

#### **Microsoft Entity Framework Core**

Microsoft entity framework is an open source object rational mapping framework for .Net. [11] It is used to communicate across to the database from the API. Using Microsoft Entity Framework along with .Net Core really complimented each other and made it easier for installing extensions and packages which have helped throughout the project. [12]

#### **Database**

Throughout the duration of the project I have used SQLite as it is a server less database meaning you do not have to set up a server for the database to run on, it is not a client-server database engine, rather it is embedded into the end program. SQLite uses a spread sheet like format and no need for learning SQL commands making it easier for developer with no database experience. [13]

Later, in the project lifecycle as I wanted to deploy it, I would have to switch from SQLite to MySQL which required a new migrations update and database to be installed.

For both MySQL and SQLite, I was able to install through the command line of VSCode. [14]

#### **Azure**

I deployed my web application to Azure at the end of the project lifecycle. Azure is a cloud computing service created by Microsoft for building, testing, deploying, and managing applications and services through Microsoft-managed data centers. [15]

I picked Azure out of all other cloud computing services because the company I worked for on placement deploys business applications to Azure, I felt this would be the best experience for me as I had not used Azure before this project.

# Specific Requirements

## **Background and Research**

The software project is concerned to business needs of its users to attain business objectives. Early in the development cycle of a system it is to guide the design of the future system.

### **Research**

In my research I was able to find that in England they have spent 12 billion developing an HER project, which still hasn't been fully developed or deployed, it was also considered one of the most expensive health care IT failures [1]. In my findings, I have discovered that a project for EHR in Ireland was in talks over 10 years ago, the project was not developed due to funding and the laws of GDPR regulations which halted the project [2].

The project that was in development was only a card to give the PPS number of a patient, their address, their name, their date of birth and allergies which applied to this patient. I have also come across an American EHR which gives the patients notifications of their next appointments, their pill refills and allows them to schedule an appointment with their doctor [3].

In Ireland medical practitioners work off an application called evolve which scans in patients records what comes up as a PDF for medical practitioners this makes it very difficult and inefficient for them to research for search true patient records this also doesn't eliminate recording errors [4].

### **Survey Results**

After conducting surveys to multiple medical practitioners, this helped me get a better grasp on the demand for the project. I have taken the approach of working at Codec and seeing the demand of the client (medical practitioners) while also pleasing the external client (lectures). This helped me get a realistic view of the working environment as I was aiming to meet both high standards for medical practitioners and lectures.

In finding results are as the following, with almost over 70% of medical practitioners giving notice that the main reasons for errors/issues in medical records is due to incorrect information recorded and unorganized documents, also with delays in requesting the documents up to 3 weeks.

Considering the epidemic that is occurring in 2020, COVID-19, these mistakes could be crucial for some patients who would be in ICU. In my opinion, I feel that with the development of an online application for EHR, workflow would be less stressful and more efficient.

### **Business Requirements**

|  |  |
| --- | --- |
| **Sr. No.** | **Description** |
|  | System must help the users to manage the records of patients to reduce the efforts. |
|  | System must provide facility to add new patients in the system so that system can handle maximum patients record. |
|  | System must have facility to add medical history of the patient so that doctor can find the medical record of any patient automatically. |
|  | System must have functionality to see the medical history of all patients so that patients do not need to carry medical tests reports everywhere. |

### **3.1.4 User Interface Requirements**

|  |  |
| --- | --- |
| **Sr. No.** | **Description** |
|  | System must have responsive user web base interface for all possible devices. |
|  | System must have different interface (GUIs) for each user. |
|  | System must have simple and easy to understand interface. |
|  | System must have icons and pictures in its graphical user interface. |

## **Functional Requirements**

Following are the functionalities of the system under consideration.

### **Actor: User**

When in editor mode, user will be able to change descript, last visit, conditions, and location fields. They will also be able to add, delete and set photos as main image.

User will be able to save changes on member card after adding new information or after deleting information, the save button will become active after sensing the page has become ‘dirty’, this is a Boolean check for the editor Form.

As you will see below Patient user does not have access to editor mode of other users, this is to prevent non-medical users from editing other patients’ information.

### **Actor: Doctor**

I added the Updating Resources feature for doctor use only giving them Create Read Update Delete rights (CRUD), for patients they will only be allowed to Read other patient’s information. I added this feature as it is very valuable for medical practitioners to be able to edit notes and records. The doctor will be able to edit user info when they click on editor button, this button will only display to doctor/admin.

### **Actor: Admin**

I have given admin access right to updating user roles as, there will be less admins in the system then doctors, this will also make sure that users will go through a process of updating their roles.

### **Critical**

* Set up database
* Set up local storage capabilities
* Set up server-client capabilities
* Set up server-client communication
* User Interface

### **Suggested**

* Ability to contact medical professional
* On request medical records for patients
* Vaccination history
* Inclusion of notable features from successful medical professionals

## **Non- Functional Requirements**

### **Usability**

Usability is a key aspect of my application design, functionality, and purpose. It is important to have an easy to use application. Therefore, the user interface will flow smoothly, with minimal delay. I implemented easy navigable features. There is no need to frustrate or decrease any workers flow, especially in this pandemic.

* It must have a user-friendly interface in which users can clearly identify the buttons, links and controllers of the system.
* System will have capability to sort the cab offices on nearest location bases.
* The system shall provide a uniform look and feel between all screens.

### **Responsiveness**

System will have a responsive user interface for all deices and browsers.

### **Performance**

The application should have high performance because multiple users will be entertained by the system.

* System must response to user action within one second to minimize the latency and speed up the process.
* System must update change in state according to transection at real time (2 sec maximum).

### **Security**

As this application keep personal information of the users so security of the application becomes key concern.

* Application will never disclose information to users that are not authorized to see it.
* Clearance that differentiates between patients, medical practitioners, and admins.
* Preventative measures against illegal access of user authorized features.

### **Availability**

Application needs to be 100% at 24hours per day, 7days a week, 365 days a year (99% of the time.), except during web site updates or maintenance.

### **Expendability**

My application is aimed for small scale local GP office, this would be who the application would benefit the most, but the long-term goal would be to implement this application into hospitals too.

### **Integrity**

System should have the capability to integrate with other software systems or modules and data transections must be handled between the modules of both systems.

### **Sustainability**

It is necessary for any successful application to keep content updated with relevant material and features. As new information is discovered, software improved, the application will be continuously updated and adjusted to meet a high standard of content.

### **Project Timeline**

Setting up the project timeline so that the project and tasks would not be sidetracked during the academic year. You can find the full view of the timeline in project appendix chapter.

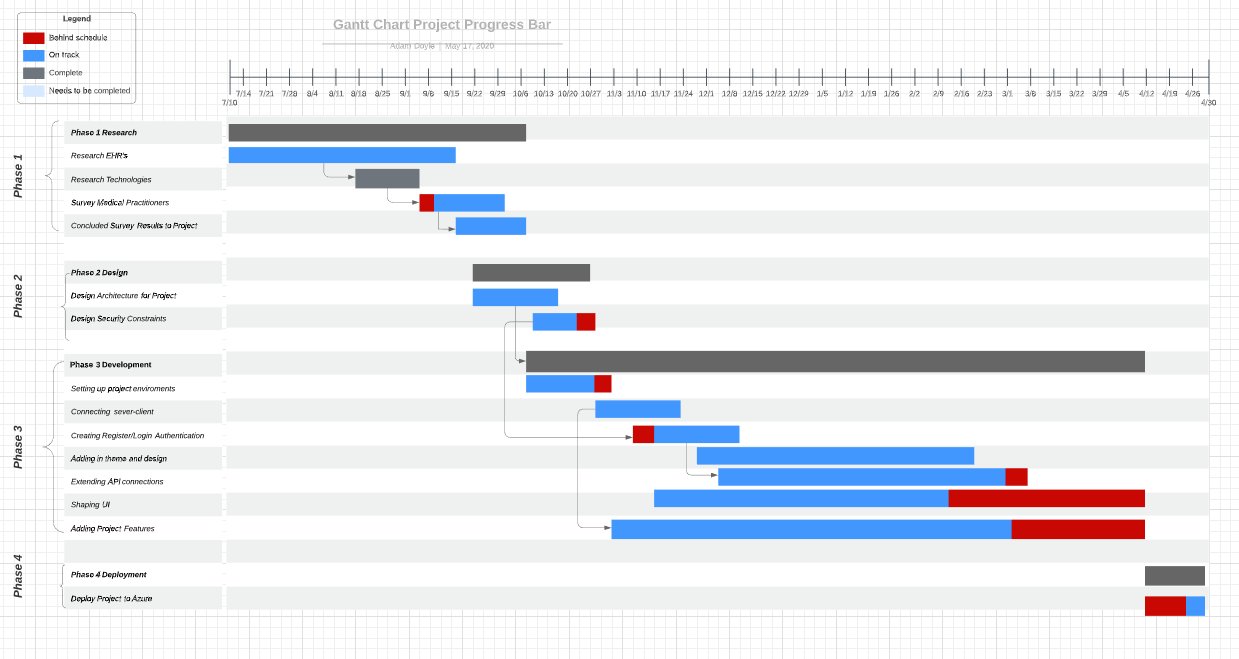


Figure 1 Project Timeline

The project was split into 4 Phases, Research, Design, Development and Deployment. The project start date, Phase 1, began in July.

Phase 1 Research – July – October

Phase 2 Design – September – November

Phase 3 Development – October – April

Phase 4 Deployment – April(start) – April(end)

# System Design and Architecture Diagrams

## **Use case Diagram**

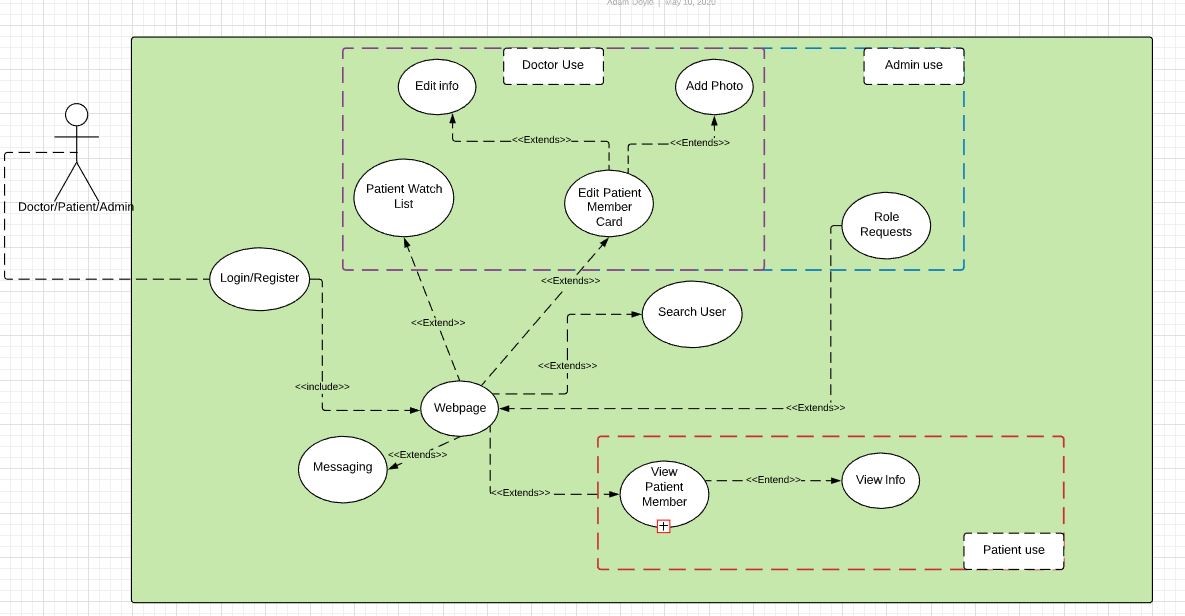


Figure 2 Use Case Diagram

***Use case Diagram:*** Use case Diagram of the system explains the interlinks of functionalities. It provides the information that which functionalities are independent or which ones are dependent on others.

## **Architecture Diagram**

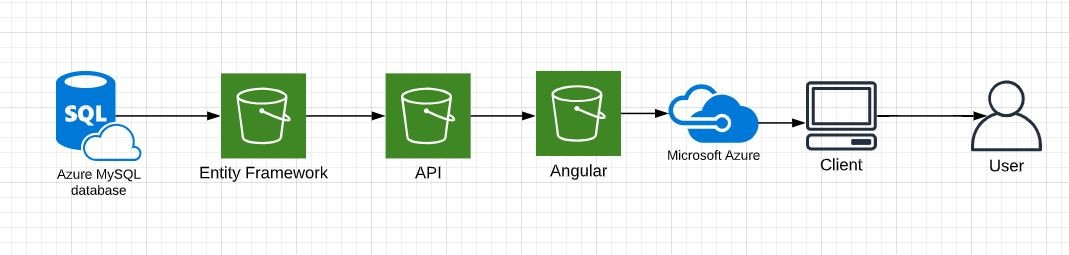


Figure 3 Architecture Diagram

***Architecture Diagram:*** Architecture Diagram of the system provides the information about overall working structure of the application. It also explains the dataflow of the system.

## **Connection Diagram**

## **Cloudinary**

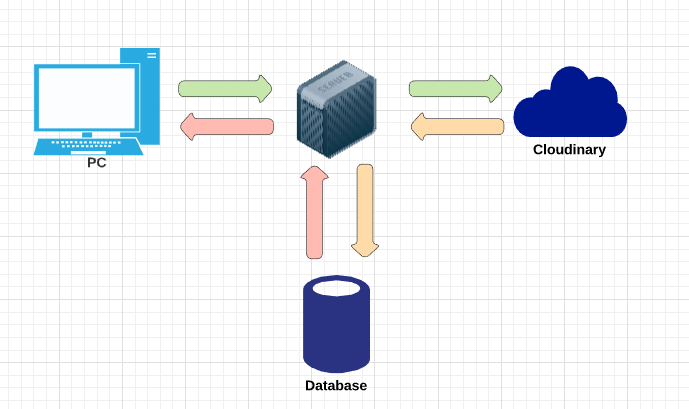


Figure 4 Cloudinary Connection

***Connection Diagram:*** Connection Diagram of the system explains the followings:

•Client uploads photo to API

•Sever Uploads photo to Cloudinary

•Cloudinary Stores photo, send response

•API saves photo URL and Public ID back to DB

•Save in DB and given Sql ID

•Response message photo added successfully

## **Json Web Token (JWT)**

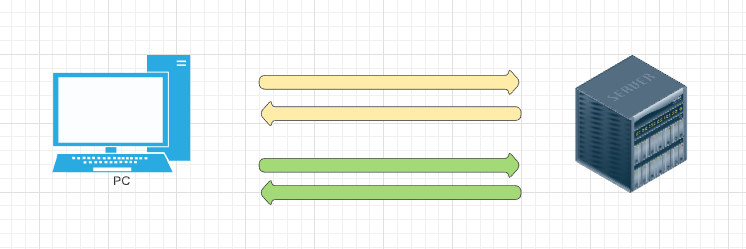


Figure 5 JWT

***Connection Diagram:*** JWT Token Authentication:

• Sends username and password

• Validates and send back JWT

• Send JWT for Further Requests

• Validates JWT and send back response

## **Conceptual Model**

Here are the conceptual models I have designed to give a better understanding of the UI and its components before I developed them. Having a blueprint to work off made designing the application on front-end much easier.

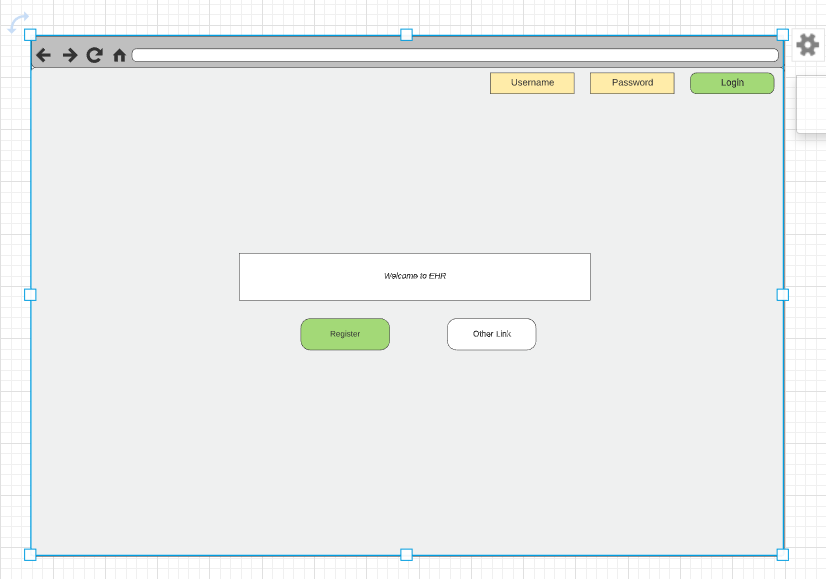


Figure 6 Login/Register Wireframe Diagram

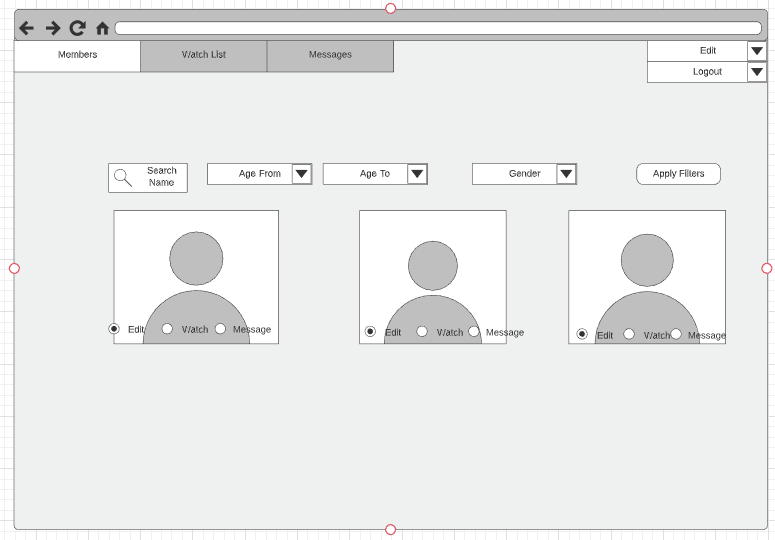


Figure 7 Homepage Wireframe Diagram

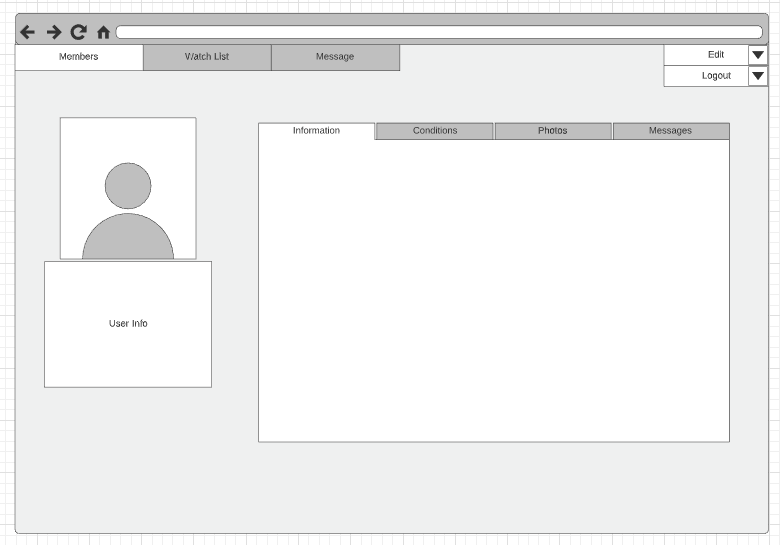


Figure 8 Member Card Wireframe Diagram

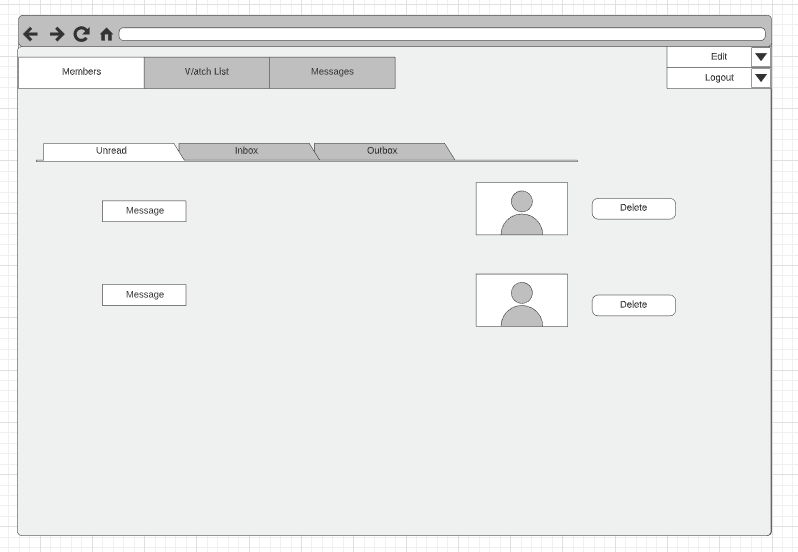


Figure 9: Messages Wireframe Diagram

## **Context flow Models**

### **Update Member Card**

![A picture containing text, lot, white, table

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFkYW0gRG95bGUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2NwAAkpIAAgAAAAM2NwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 10 Update Resources Context flow

### **Filter Context Flow**

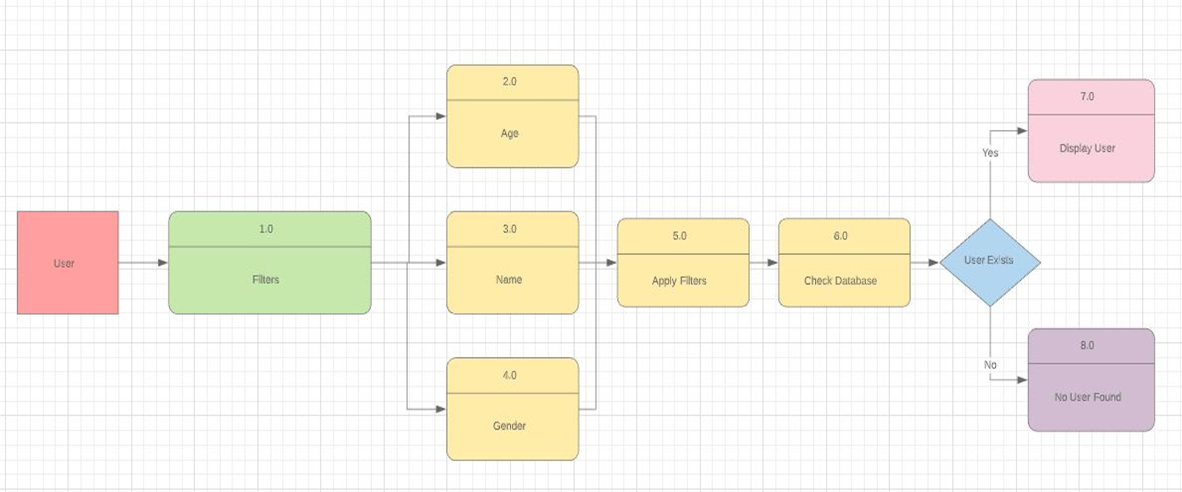


Figure 11: Filter Context Flow

### **Watch List Context Flow**

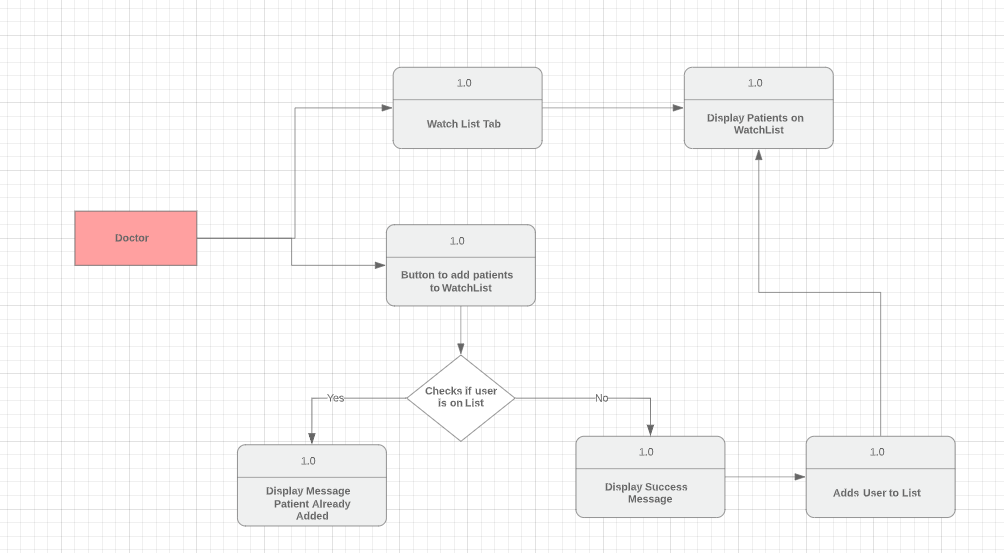


Figure 12: Watchlist Context Flow

### **Messaging Context Flow**



Figure 13 Messaging Context Flow

### **Roles Context Flow**

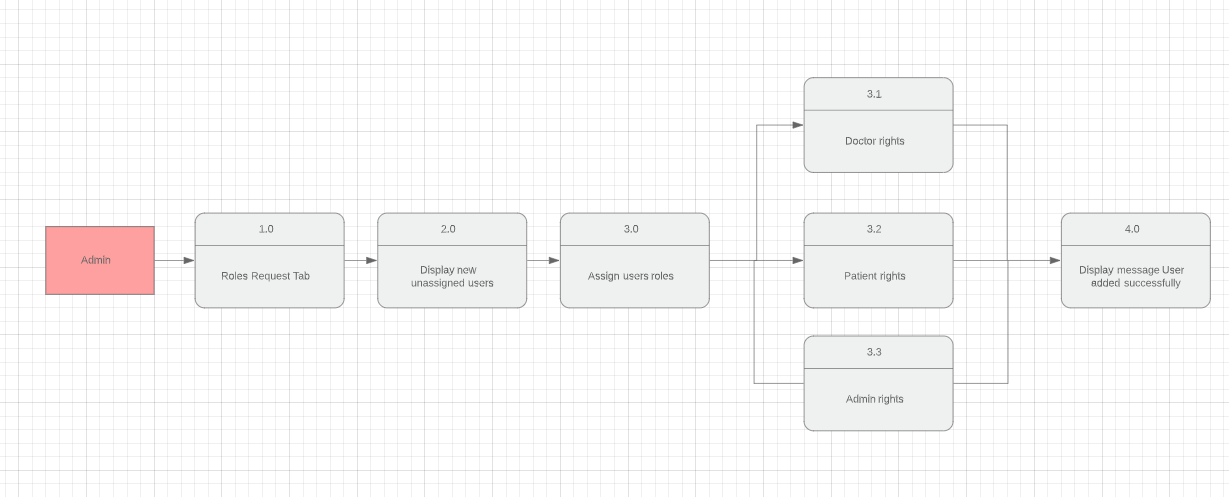


Figure 14 Roles Context Flow

# Development of System

## **Functionality**

A full-stack application requires communication, between server-side and client-side, I will be going through the communication between these applications, communication within the applications and shaping the User Interface.

### **Http Pipeline**

The Front-End and the Back end are connected through a Http Pipeline, the User Interface will handle the interactions with the user and react to the actions they make on the interface. When the user interaction with the web application, the application will respond to their request. The method inside a component will call to a service, the service will then follow through to actions of the http request. The Back end (API) then responds to the Http Request.

Is this application there is 4 different type of Http Methods (Requests), GET, POST, PUT, DELETE.[16]

GET – Is used to request data from a specified resource

POST – Is used to send data to a server to create/update a resource

PUT – Is used to send data to a server to create/update a resource

DELETE – Is used to delete specified resource

### **Forms and Reactive Forms**

Forms Modules and Reactive Forms we are very helpful when handling user interaction such as when user is filling in register forms and when user is updating information. The forms module will track the information on the front-end and manipulate the user input so that they do not make many errors, this will reduce the errors inputted and being sent to API.

### **Theme**

Designing the User Interface and theme I used a several different plugins, the main ones for shaping the UI were NgxBootstrap, NgxGallery and Bootswatch. NgxBootstrap and NgxGallery we’re extremely helpful for styling, adding in buttons, alerts and icons, rather than reinventing the wheel, I felt it would be better to user designs people would be familiar with. Bootswatch was used for adding theme and color to the application, which was very helpful, as this way I was able to set out an overall color to the application rather than having to change it every time.

### **Connecting to the Database**

I will go through the setup of creating the variables in the API, how their used, setting up the variables to the Database, laying out the blueprints for the migration, creating the table in the database and then being able to output the data to UI through the SPA.

Creating the getters and setters in the model’s folder, I have created a User Class which will be the user’s info that will get stored to the database. These variables will be able to be used throughout the API in other folders such as Controllers, Data,

A screenshot of a cell phone

Description automatically generated

Figure 15 Models User

Using ‘dotnet ef migrations add AddedUserEntity’ will scaffold the DataContext ‘Users’ into the migration.

A picture containing sitting, monitor, screen, table

Description automatically generated

Figure 16 Data Context

A screenshot of a cell phone

Description automatically generated

Figure 17 User Migrations

A screenshot of a cell phone

Description automatically generatedThen using ‘dotnet ef database update’ this will update the database using Migrations as a blueprint for layout.

Figure 18 User Table Database

### **Token**

I have added the package JwT Bearer, this gives the user a Token when registered successful and when the user logins in the next time that the system will not have to check in the database. The Web Token will contain an algorithm, I have chosen HMAC512, this algorithm will then decode the password entered and check each element in its array. If it is correct the user will then be logged in successfully. The token will also contain a claim identify which will expire after 1 day, meaning the user will have to log back in after expiry.

## **Features Base**

The project consists of 8 main features that the user can interact with on User Interface. I will be discussing the benefits of these features, why I added them in, and how the Front-End and Back-End react to these features when being used. I will be providing aided diagrams to help understand the flow of these features.

### **Login/Register**

I added the login and register feature as this web application will be holding valuable information about users. This feature is to protect the data of users within the application.

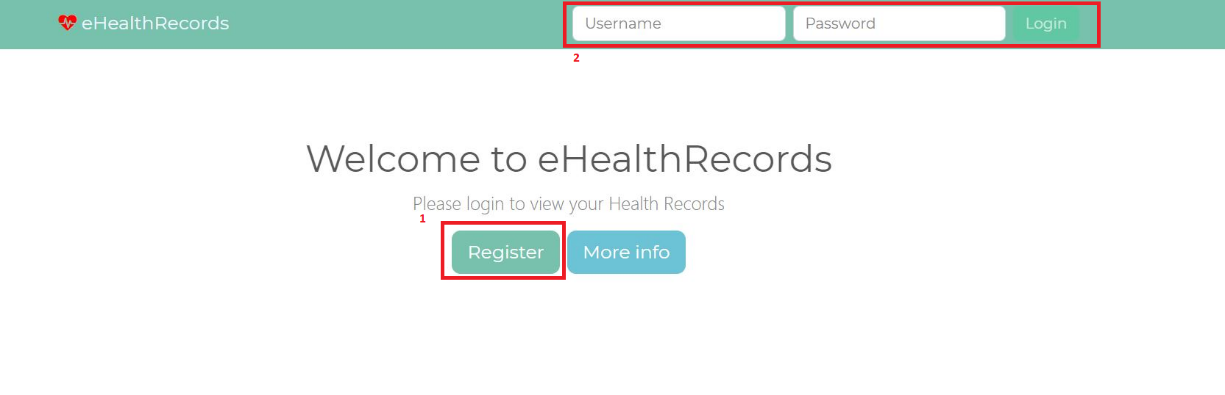
Here is the login and register displayed on the UI.

Figure 19 Login/Register UI

These buttons are displayed with html and css, as you will notice the Login button is disabled until the username and password is entered. For the register button when the user clicks the index html with be rendered to show the register form.

#### **Login**

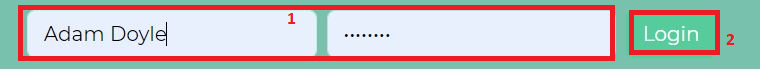
User will be required to enter username and password, once these fields are entered the login button will be available to press.

Figure 20 Login UI

I have set the login function to only show when the user is not logged in, and that they are required to enter username and password, once this is correct then the login button will be active.

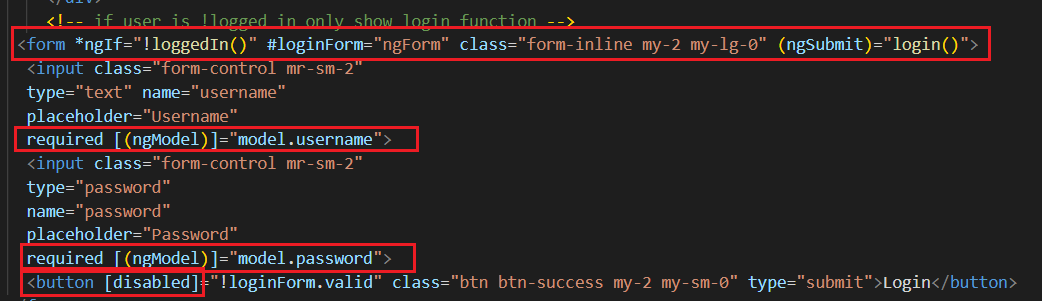
When the user clicks login, it will call on the login function in nav component typescript, which will trigger the http post in auth service to login.

Figure 21 login nav.html

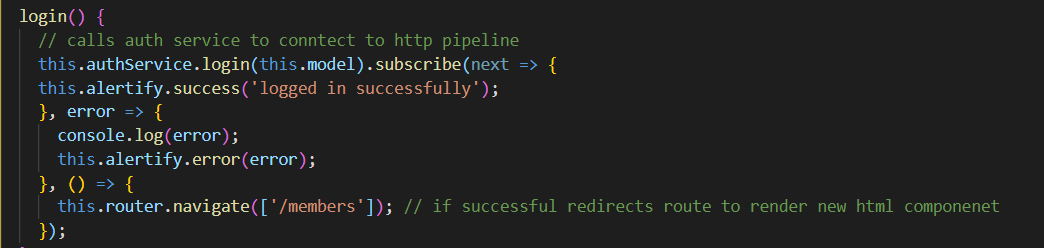


Figure 22 login method



Figure 23 Login service pipeline

Login will check and decode token to verify username and password. In the backend the decoded username and password will then be checked against the username and password stored in the database. If username and password match user will be given new claims token which allows login for 1 day, after the day then user will have to login again.

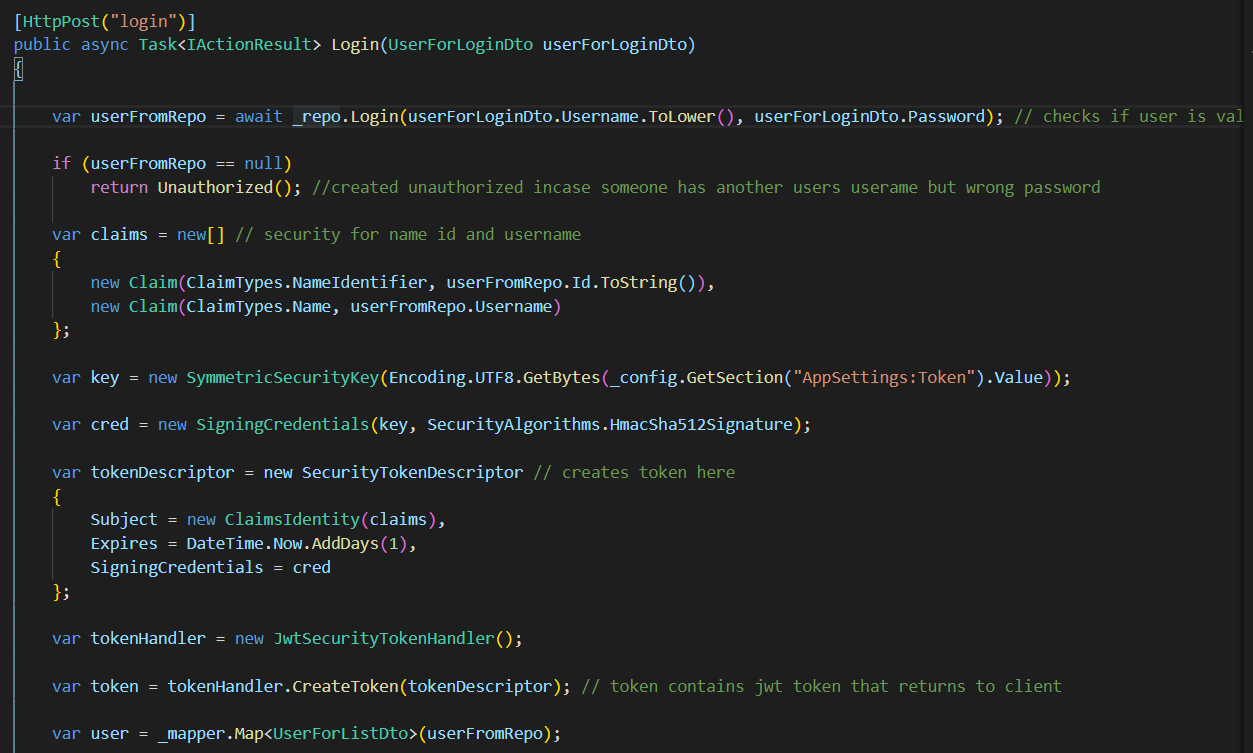


Figure 24 login auth controller

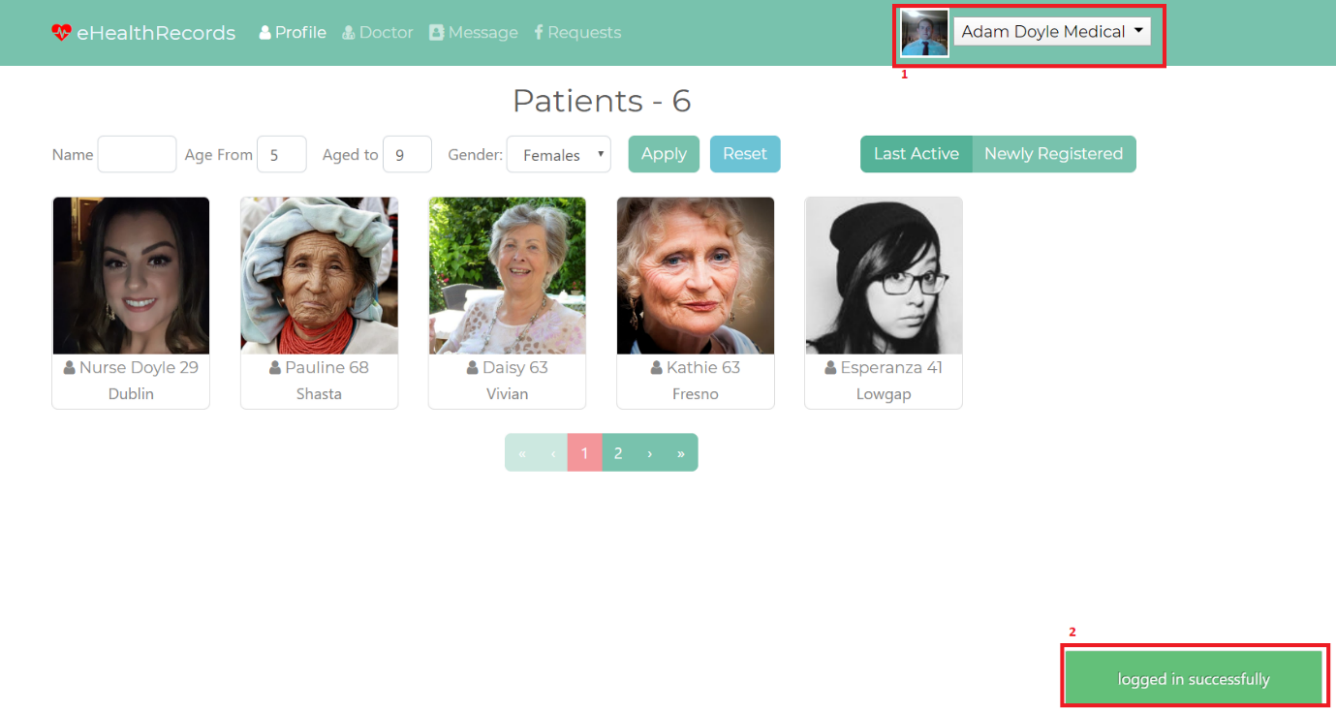
Once the checks are successful the user will be redirected using routes to the new rendered html page \members.

Figure 25 Logged in Success



Figure 26 routes direct to members



Figure 27 Routes’

The routes will redirect logged in user to the member list component html where it will display the members.

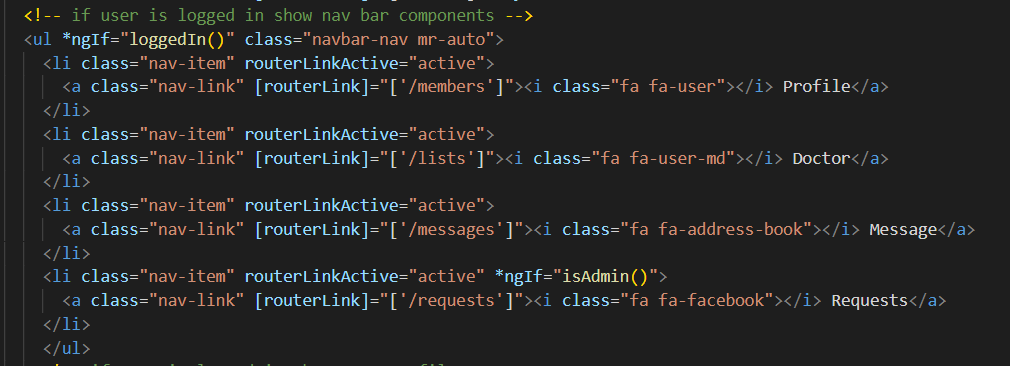


Figure 28 Show tabs nav.html

Now that user is logged in the nav tabs will show.

#### **Register**

In the register I have used the form module package from angular to help create the register form.

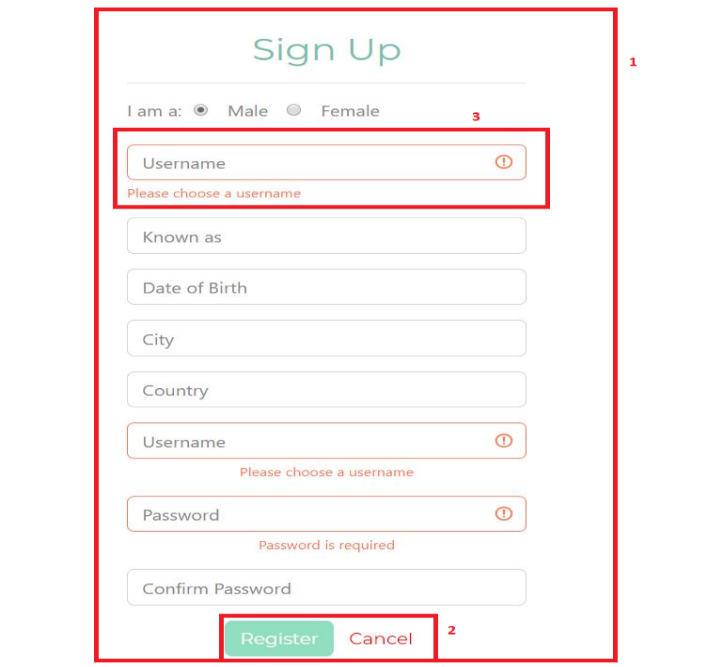


Figure 29 Register Form

I’ve put required checks in on all the fields as this will make the user fill in the whole form without skipping any information, once all the fields are complete the user will then be able to click register.

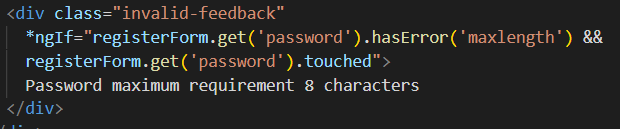


Figure 30 Register Requirements

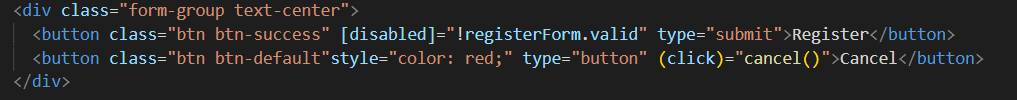


Figure 31 Register Button

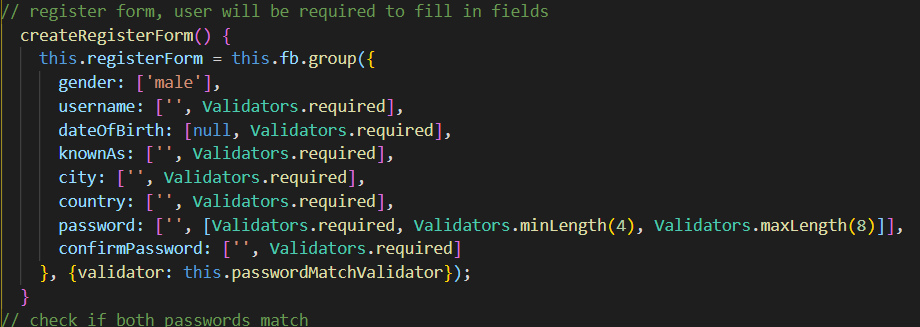


Figure 32 Register Validators

When the Register button is pressed it will activate the register method to post the filled in register form to the API where it will be checked and stored in the database, the users password will be hashed and salt , if all requirements are met and completed the user will be given a token

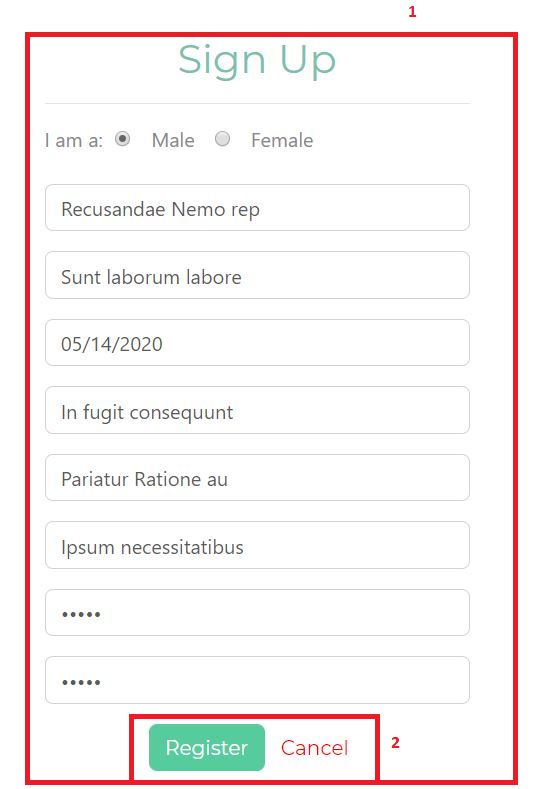


Figure 33 Register Button Active

### **Updating Resources**

I added the Updating Resources feature for doctor/admin use only giving them Create Read Update Delete rights (CRUD), for patients they will only be allowed to Read other patients information. I added this feature as it is very valuable for medical practitioners to be able to edit notes and records.

The doctor/admin will be able to edit user info when they click on editor button, this button will only display to doctor/admin.

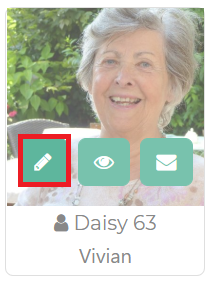


Figure 34 Edit Member

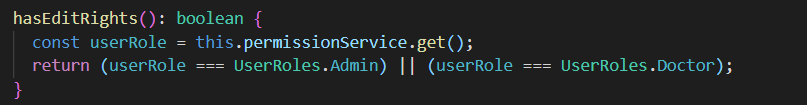


Figure 35 User Permission

When in editor mode, user will be able to change descript, last visit, conditions, and location fields. They will also be able to add, delete and set photos as main image.

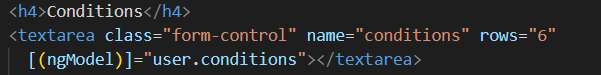


Figure 36 Conditions Box

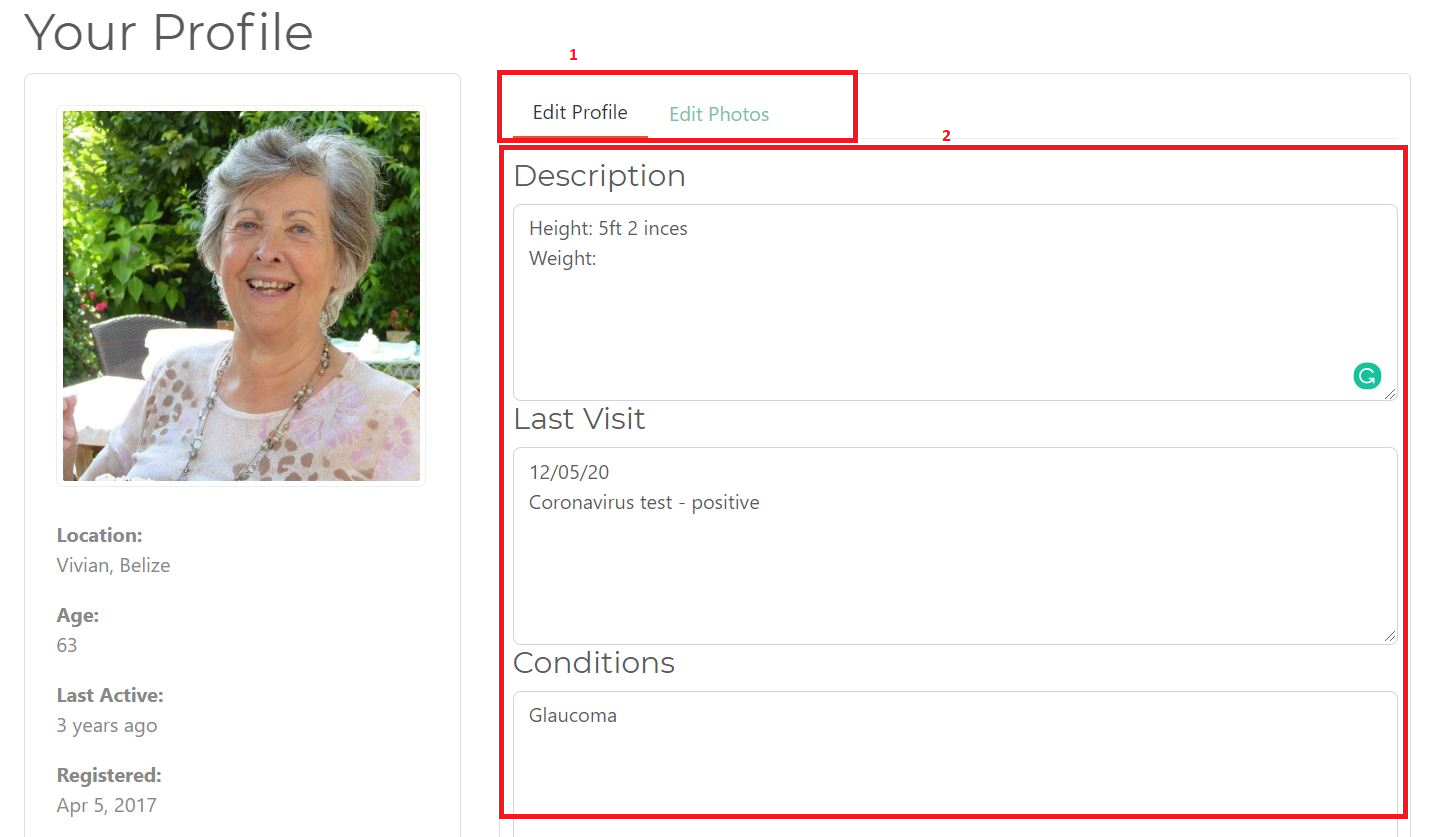


Figure 37 Member Editor

User will be able to save changes on member card after adding new information or after deleting information, the save button will become active after sensing the page has become ‘dirty’, this is a Boolean check for the editor Form.



Figure 38 Save Changes Button



Figure 39 Save Changes Button Active

If user forgets to save changes, there is a guard to prevent unsaved changes being lost

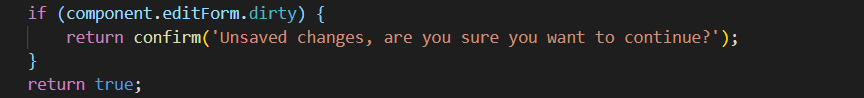


Figure 40 Unsaved Changes Statement



Figure 41 Unsaved Changes Alert

As you will see below Patient user does not have access to editor mode of other users, this is to prevent non-medical users from editing other patients’ information.

### **Photo Uploader**

The photos feature can only be accessed when in editor mode. I have used Cloudinary to store the actual photo and the URL path of the photo is being stored in the database. I’ve used Cloudinary because if feel if I was to store many images to the one database that the database would fill up very quickly, and considering I was in development with SQLite it would fill up the database quicker than others and then would run into performance issues but mainly that a database is used to store data and not images.

* Client uploads photo to API
* Sever Uploads photo to Cloudinary
* Cloudinary Stores photo, send response
* API saves photo URL and PublicId back to DB
* Save in DB and given Sql ID
* Response message photo added successfully

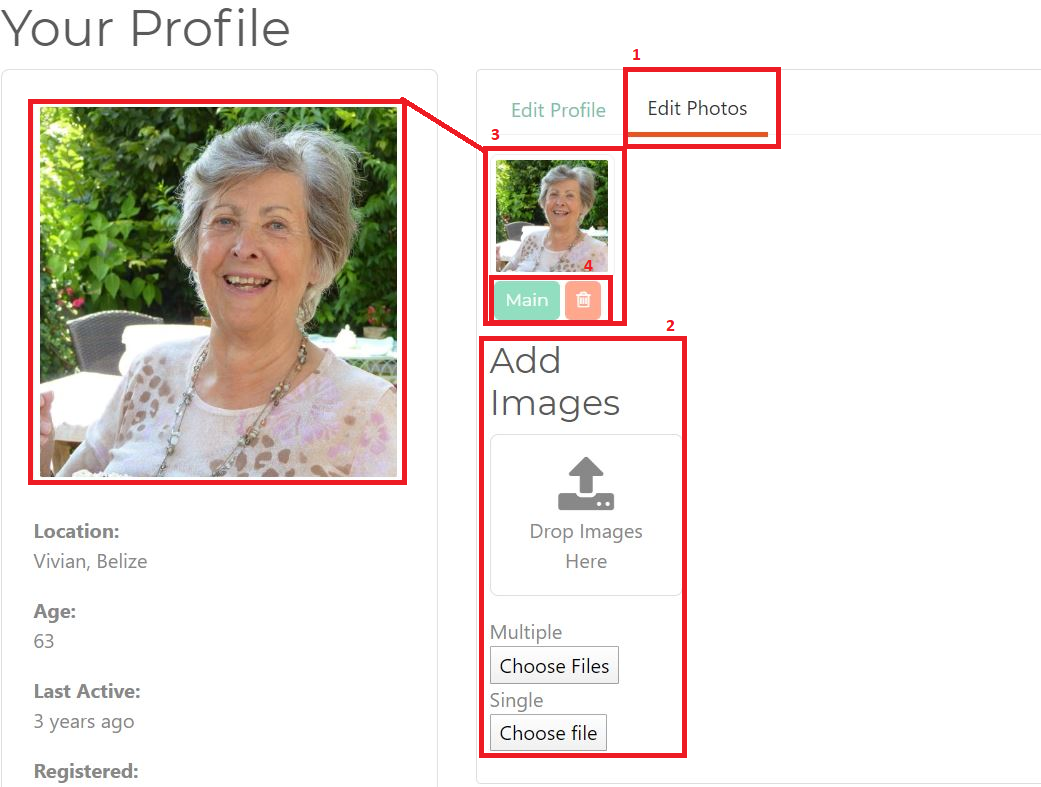


Figure 42 Photo Tab

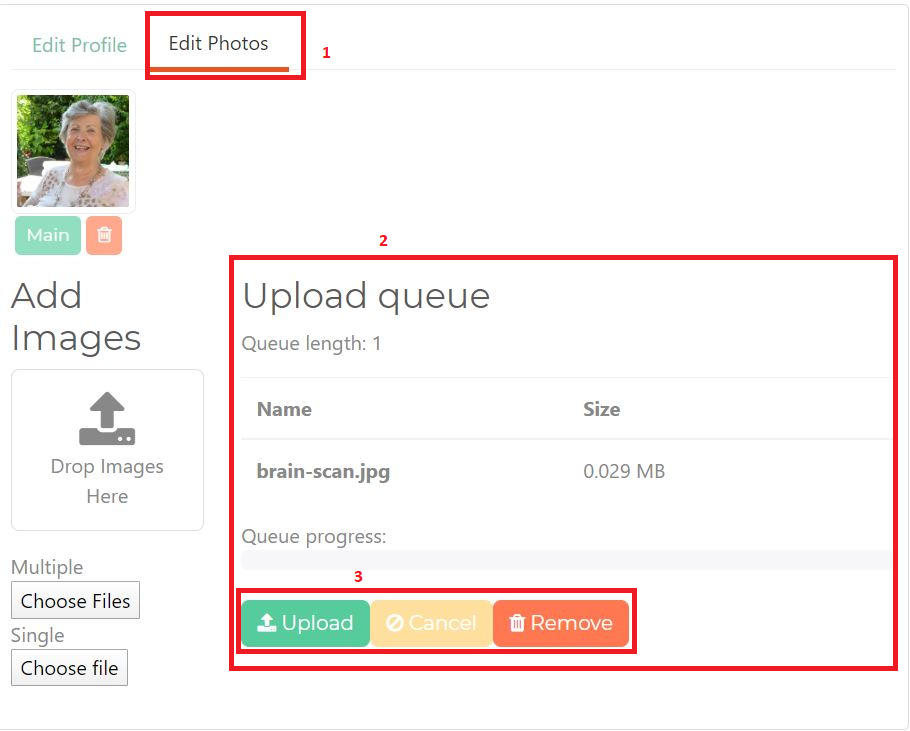


Figure 43 Upload Photo

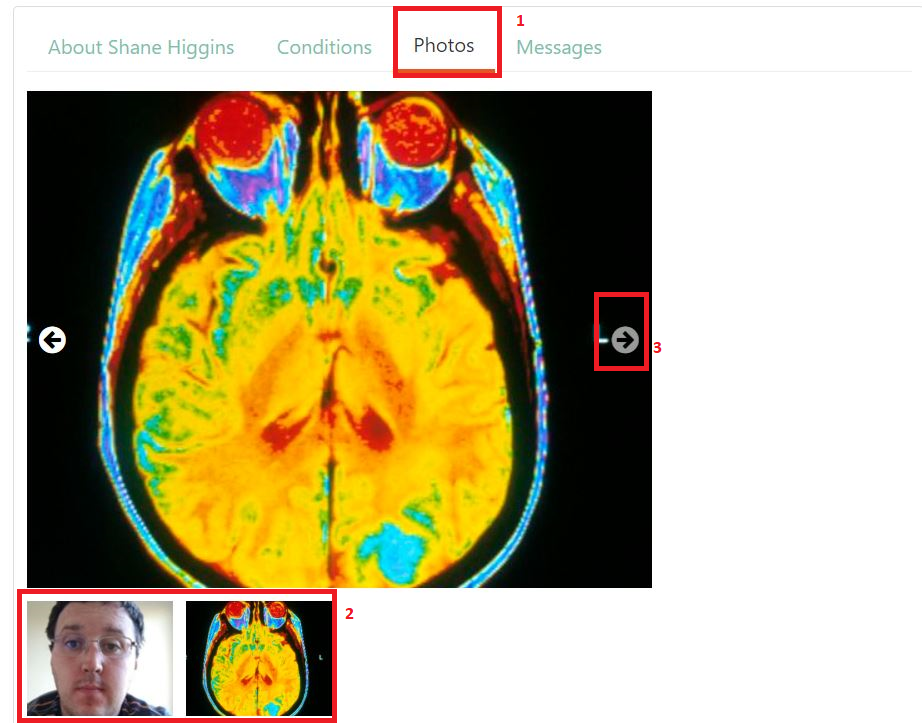


Figure 44 View Photos

### **Filters**

This feature I have added will help doctors/admins when searching through for users on a larger scale. The user will be able to search using 3 filters, name filter, age filter, gender filter then once applied the filters will get the users within these brackets.

User will be able to select a filter and apply it to who they wish to seek.

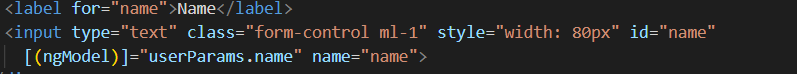


Figure 45 Filter Name



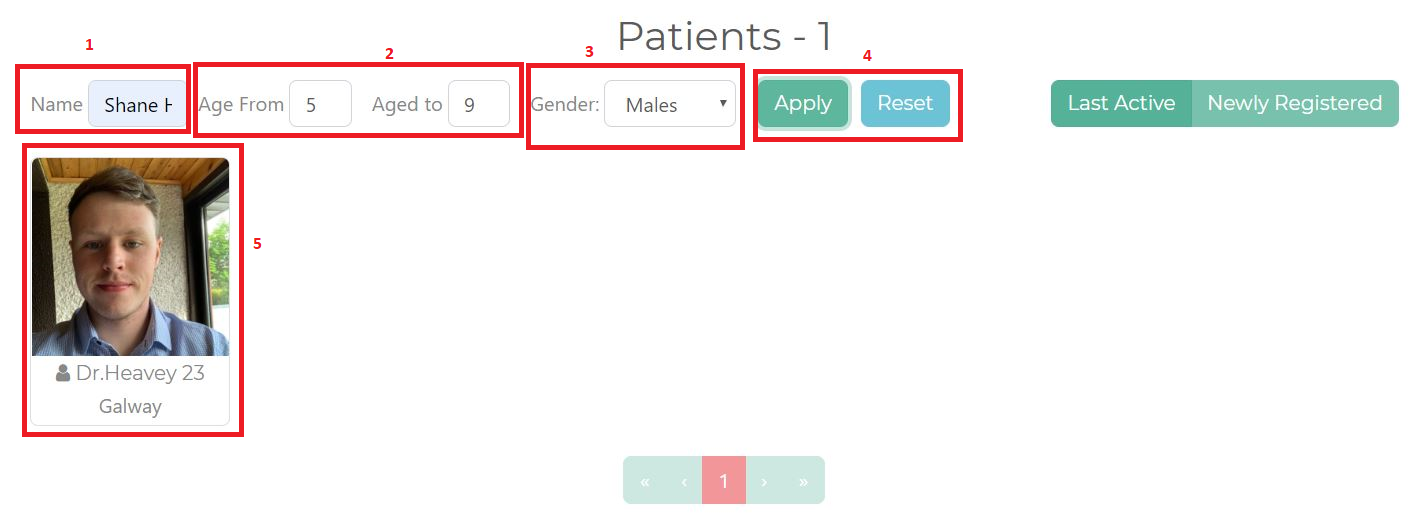
Figure 46 User Param Name

Figure 47 Filters UI

### **Watch List**

The Watch List feature I have added, I have based off a ‘Like function’, where the user can click add to ‘Watch List’ (like button), then that selected user will be added to the list of users on watch list.

I added the Watch List feature in as I feel during times of this pandemic where doctors might find it difficult on who to closely monitor all at once, or even a list to closely monitor patients. This feature I based off a ‘Like’ feature or ‘Add button’ where the user can click Watch which will add them to the user’s collection of patients on watch list.

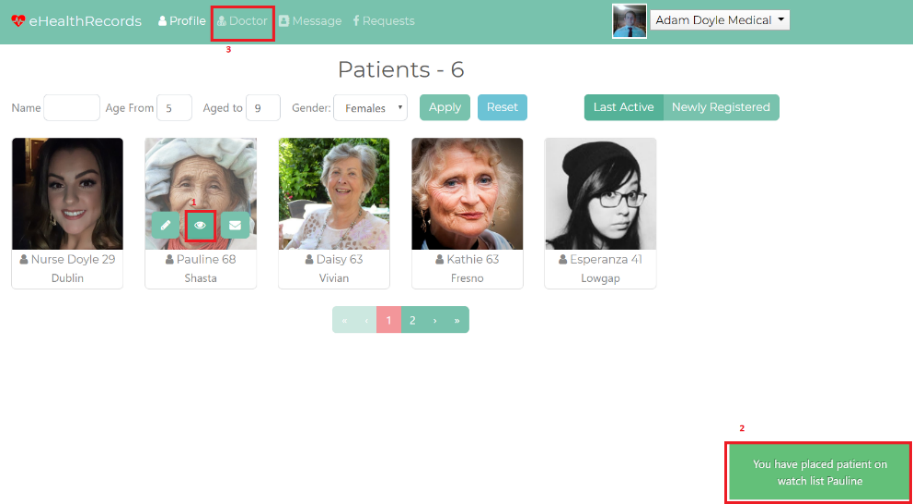


Figure 48 Add User to Watchlist

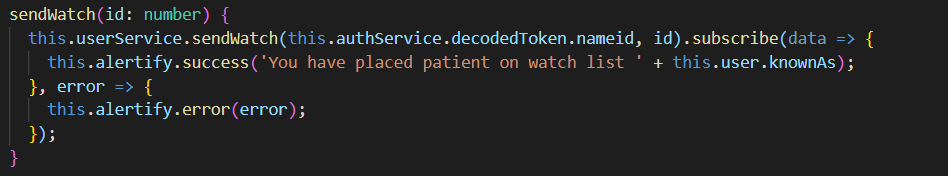


Figure 49 Send Watch

When the user then goes onto the Watch List, they will get the List of Patients they have added to the list

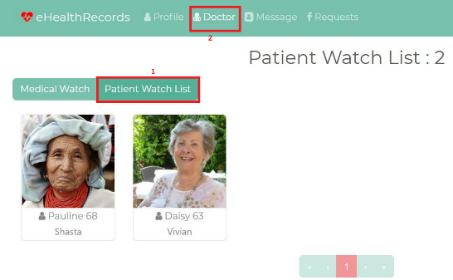


Figure 50 Watchlist

### **Messaging**

I’ve added this feature for doctors/admins for communication through the application so that they will not have to jump between EHR and emailing application, also one of the main errors the medical practitioners noted in the surveys that there was a loss of communication, as there is in every industry. This feature I feel will help aid mainly doctors, for example to check who operated last on a patient.

The message feature should help with the loss of communication with medical workers, this will save them a small amount of time switching between email applications and EHR.

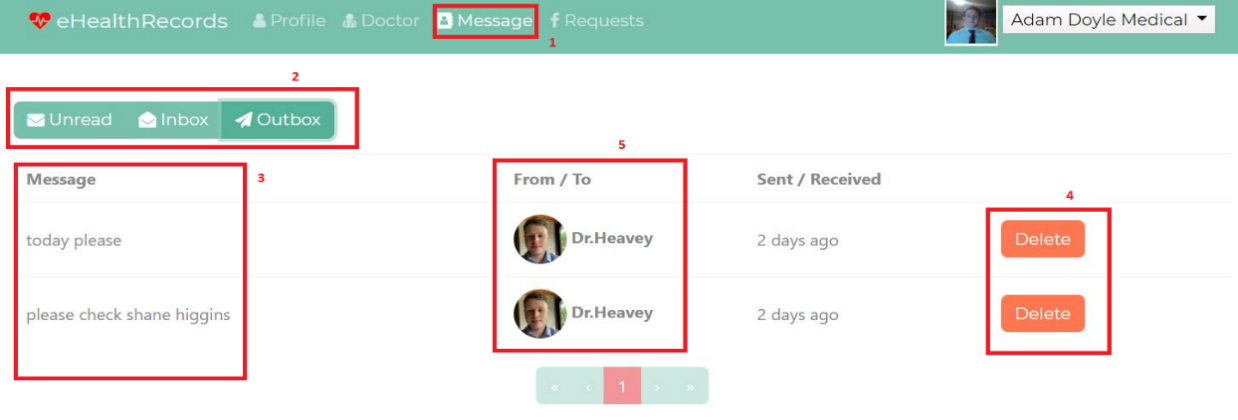
I’ve created a unread box, inbox, and outbox for the user so they can check new messages and current/previous conversations.

Figure 51 Messages Tab

I’ve also added in a delete message which would remove the message from users view, the message will only properly be deleted if both users involved in this conversation delete the message.

The conversations/messages are brought up with a load messages method which is a thread of all the messages sent in that conversation. The user will be allowed to send a message once they have entered text. It will also show when the user has sent the message and show the users icon next to the message so there is no confusion over who sent the message.

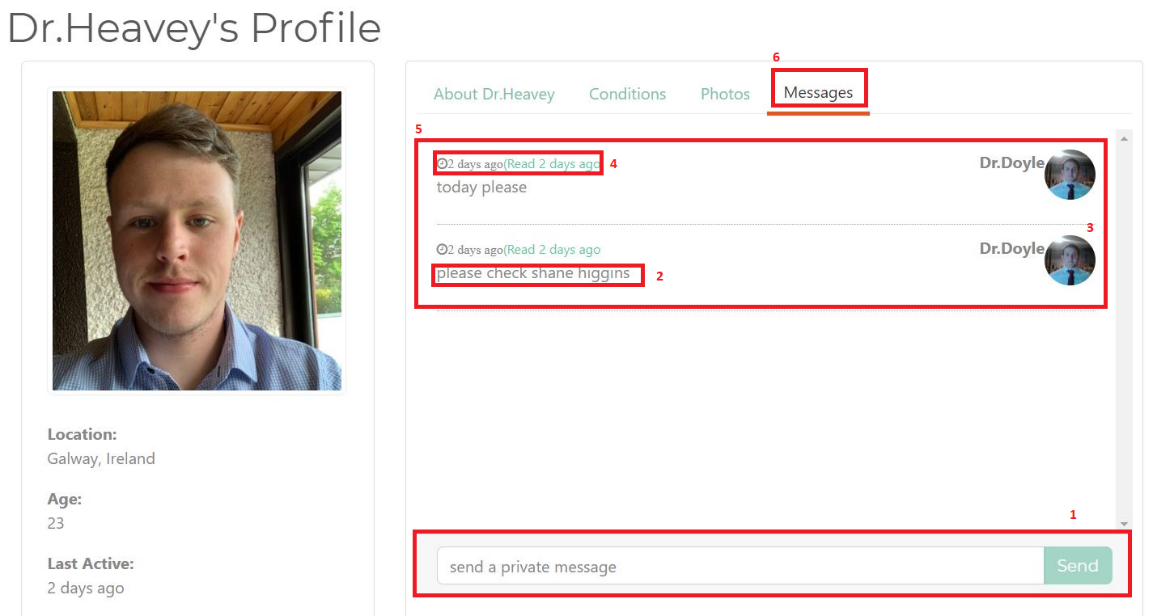


Figure 52 Messages Thread

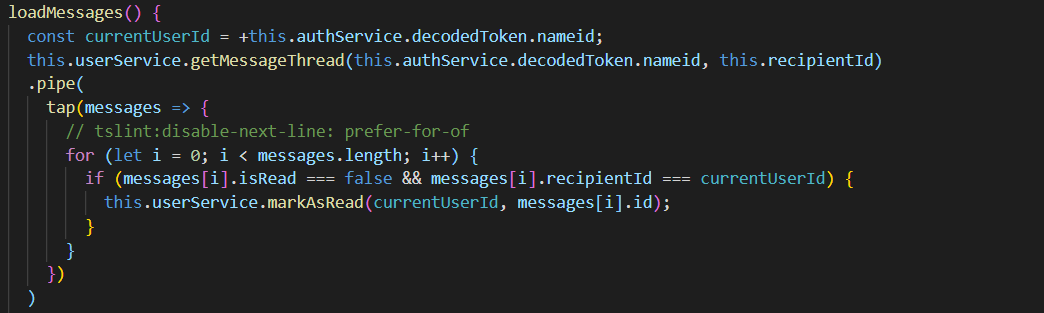


Figure 53 Load Messages

### **Roles**

I added the Request feature as this will be able to give specific users rights on whether they can update member information or read member info. This is a major feature because in the medical industry medical practitioners cannot have people outside the medical industry editing people’s information. I have given admin access right to updating user roles as, there will be less admins in the system then doctors, this will also make sure that users will go through a process of updating their roles.

The application will check if user has admin rights, if user has admin rights they will be allowed to check into new users and assign them roles.



Figure 54 Requests Tab



Figure 55 Admin Check

Admin will be displayed new users in the request tab, they will be able to assign them new roles by clicking the button on which role they choose. Once button is clicked user will be given new role which will be sent to the http pipeline and then into the API where it will be saved into the database. The user will then be taken off the list using splice.

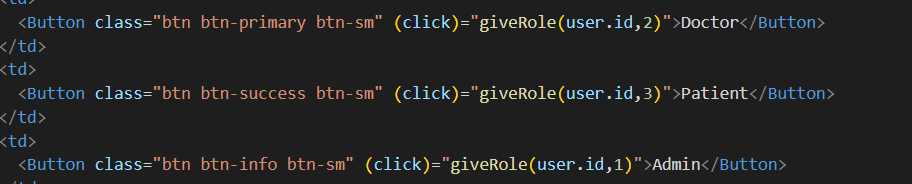


Figure 56 User Roles

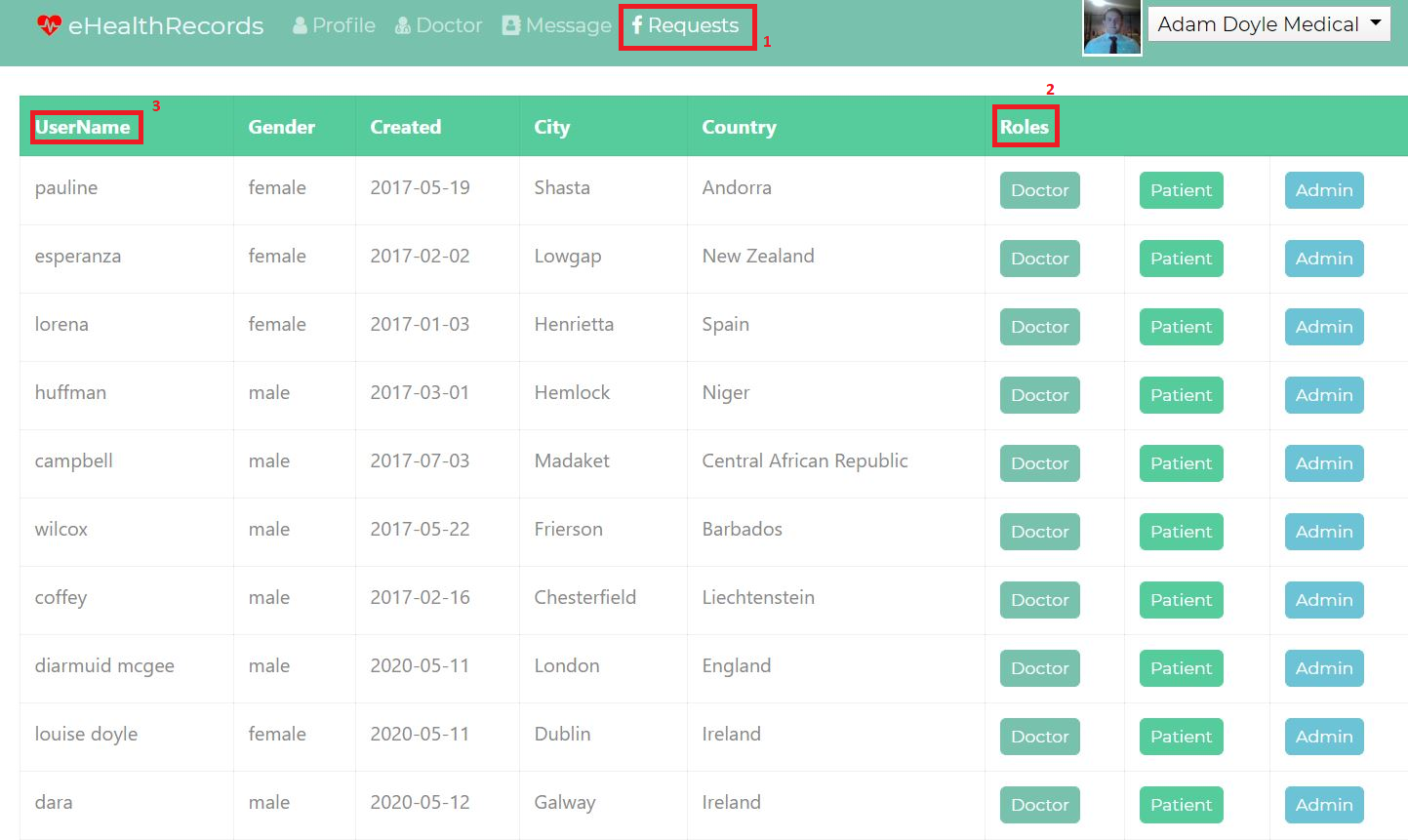


Figure 57 Assign Roles

# Deployment of System

I published/deployed the application to Azure. I did this by adding a resource group and inside resource group selecting MySQL + WebApp, which suited my application.

I had to selecting pricing tier and sever size that I think would be suited to my web application, as users are being stored with data and photos and the lowest tier for sever you can apply for is free which give your 32MB of storage, considering this application it would be to be 100% functional at all times as you are dealing with medical records and peoples data.

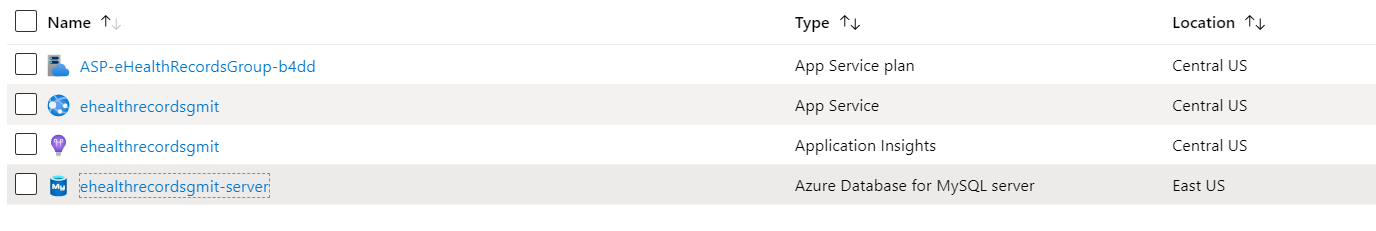


Figure 58 Resource Group

After setting up Resource group, I published the application so that I would be able to deploy it as the published folder.

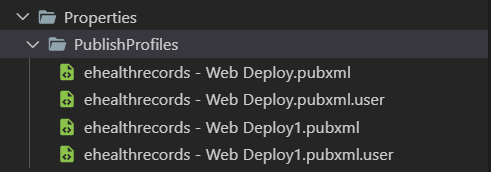


Figure 59 Publish Project

For deploying the app on Visual Studio Code, I was about to add an extension plugin.

This allowed me to login to my account and deploy the application from VSCode, making the process quick and easy.

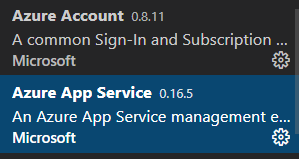


Figure 60 Azure Plugins

Then after signing in I was able to then deploy the folder by clicking deploy webapp and finding the folder in my files

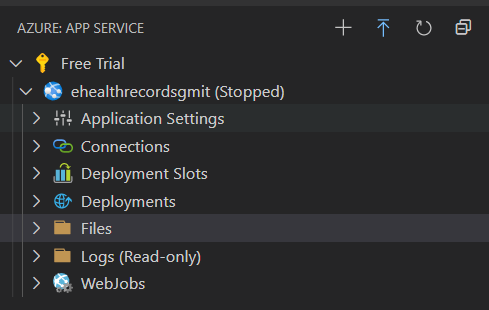


Figure 61 Deploy Project

## **Issues**

There was a small miscalculation when selecting pricing tier as I had run out of credits before project demonstration, I was about to do some disaster recovery by creating a new email and deploying the project to this new account.

# Social Issues

## **Ethical**

Many ethical issues would plague this application due to certain features. One such feature as user information, where user’s medical data will be stored on their member card. As an ethical software engineering, it is required that we protect user’s private information to safeguard from malicious attacks. Due to GDPR user is have every right for their data to not be shared as their data is a valuable resource, so we must ensure that every users data is protected.

## **Social**

My application is centered around improving workflow, reducing recording errors and overall improvements to the medical industry. I understand this application could also achieve the opposite effect and could inadvertently backfire. The idea came up as I researched and realized that a project for EHR in Ireland was scrapped due to GDPR. I do feel that people’s mindset would change as this was a project 10 years ago where computers we are not as efficient as they are now.

## **Economic**

The cost involved in developing a project such as this would be huge. The development of the project itself, I do believe wouldn’t be the major cost, but the maintenance, as each person would require their own portal, such as revenue, the database and server cost, maintenance and sustainability would but a large dent on the budget. Considering that the UK have spent 12 billion on developing EHR and failed, does put into perspective how complex this project would be in the real world, and also considering the HSE/HIQA spend 16 billion each year on medical supplies, office equipment etc. If we are to consider views from the public, they might see if as a waste of taxpayer money as they do not benefit from this.

## **Environmental Impact**

As a web application, there is no need for any sort of physical deployment. The application will also help by reducing the need for paper working environment in hospitals and will reduce the impact on the environment around us.

Although there is a need for a large database so this could cause some environmental interferences, as we might need to build a data center for storing these records and they require a large amount of power to sustain these datacenters.

## **Usability**

Usability is a key aspect of my application design, functionality, and purpose. It is important to have an easy to use application. Therefore, the user interface will flow smoothly, with minimal delay. I implemented easy navigable features. There is no need to frustrate or decrease any workers flow, especially in this pandemic.

# Conclusion

## **Overall Conclusion**

I started this project with the mindset of developing the web application as a business level, trying to include stakeholders, which were lectures and medical practitioners.

I quickly came to realize the toughest aspect to a project and that is to please everyone, whether it was to make the application user friendly and have no complexity running behind the scene which would be pleasing non-technical users, or to be pleasing lectures by making it complex but not useful to non-technical users.

I had to find a balance to building this application, which I feel I have met as my main goal was to create a steppingstone for future EHR in Ireland.

In conclusion, I believe the reason EHR has not been developed yet in Ireland is due to financial cost, difficult in sharing data due to GDPR and the large number of stakeholders involved with formidable requirements.

## **Obstacles Encountered**

As I did not have much experience in full-stack development there were a few obstacles I had to encounter along the way such as connecting front-end to back-end, connecting photoUploader and switching migrations from SQLite to MySQL. These obstacles were very challenging at times and tested my patients, but I am happy to have a fully functional application.

## **Experience Gained**

After doing research and development throughout the year, I have gained a tremendous amount of knowledge in developing a full stack web application. Having worked with ASP.Net Core throughout my placement I feel I furthered my understanding of how to set up a backend application through ASP.Net Core. I also feel that my skills at project management have been tested by including many stakeholders but also strengthened as the project went on.

## **Future Enhancements**

I feel there will be a high demand for EHR considering the rapid advancement in technology and if we remain in a paper environment for medical recordings. I understand medical practitioners go by oath by not sharing patient’s medical information, so this makes it difficult for IT to transfer patient information to digital interface when they cannot view the information going on the system. The best solution for this would possible be block-chaining. Although the more features added to the system will make the application more complex and harder for first time users to understand and use.

# Appendix

## **References**

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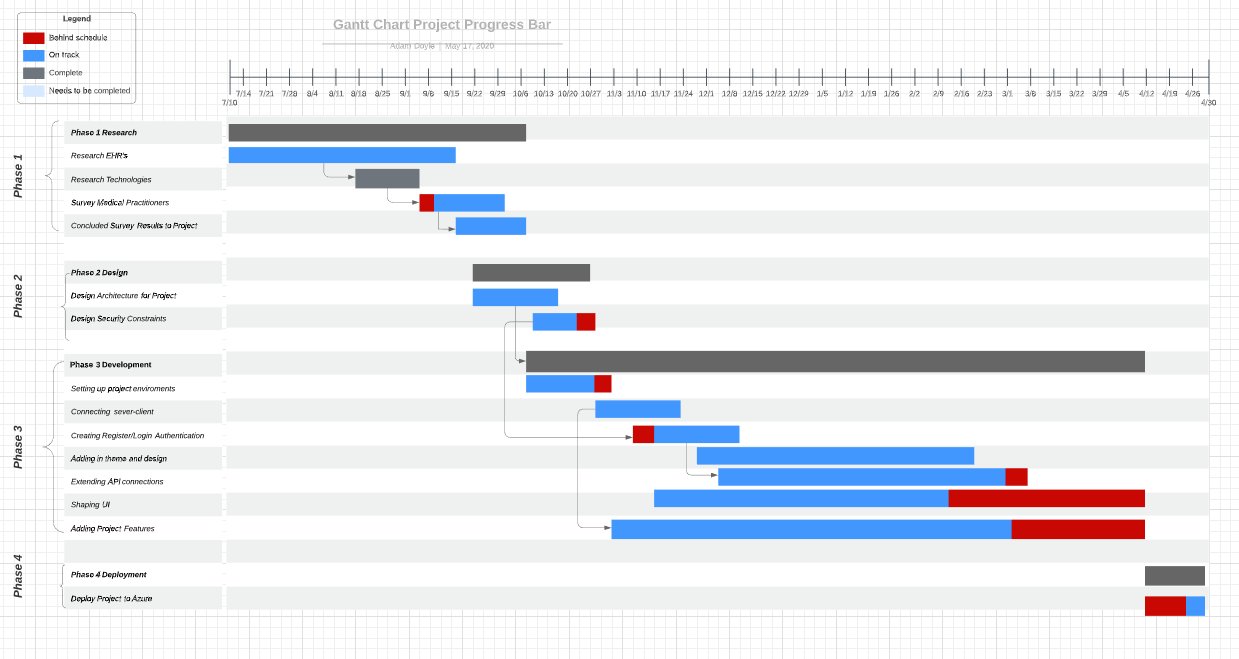
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## **Project Timeline (Full View)**



## **Packages**

### **API**

* Microsoft.Net SDK Web
* Cloudinary DotNet
* Microsoft Authentication JwtBearer
* Microsoft NewtonsoftJson
* Microsoft Entity Framework Core
* Microsoft Entity Framework SqLite
* Newtonsoft
* Token Jwt
* AutoMapper Dependency Injection
* Node Js SDK

### **SPA**

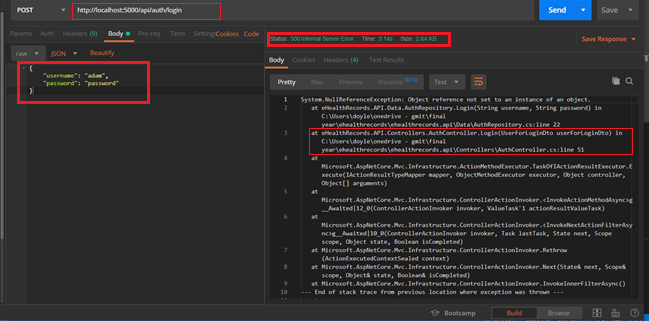
* Time Ago Pipe
* Browser Module
* HttpClient Module
* Forms Module
* Reactive Forms Module
* BsDropDown Module
* BsDatePicker Module
* Tabs Module
* Button Module
* Router Module
* Pagination Module
* Ngx Gallery Module
* File Upload Module
* Browser Animation
* Jwt Module
* Bootstrap

### **Visual Studio Code Extensions**

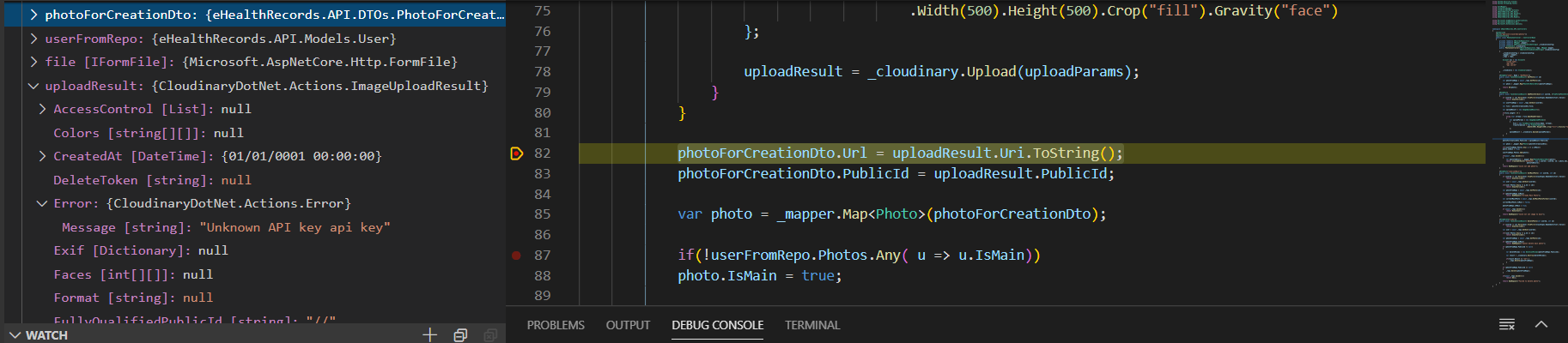
* Angular Files
* Angular Language Service
* Angular Snippets (Version 9)
* Angular 2 Switcher
* Auto Rename Tag
* Bracket Pair Colorized 2
* C#
* C# Extensions
* Debugger for Chrome
* Dotnet core commands
* Git: Add Remote
* Material Icon Theme
* NuGet Package Manager
* Prettier – Code formatter
* SQLite
* TSLint

## **Error Log**

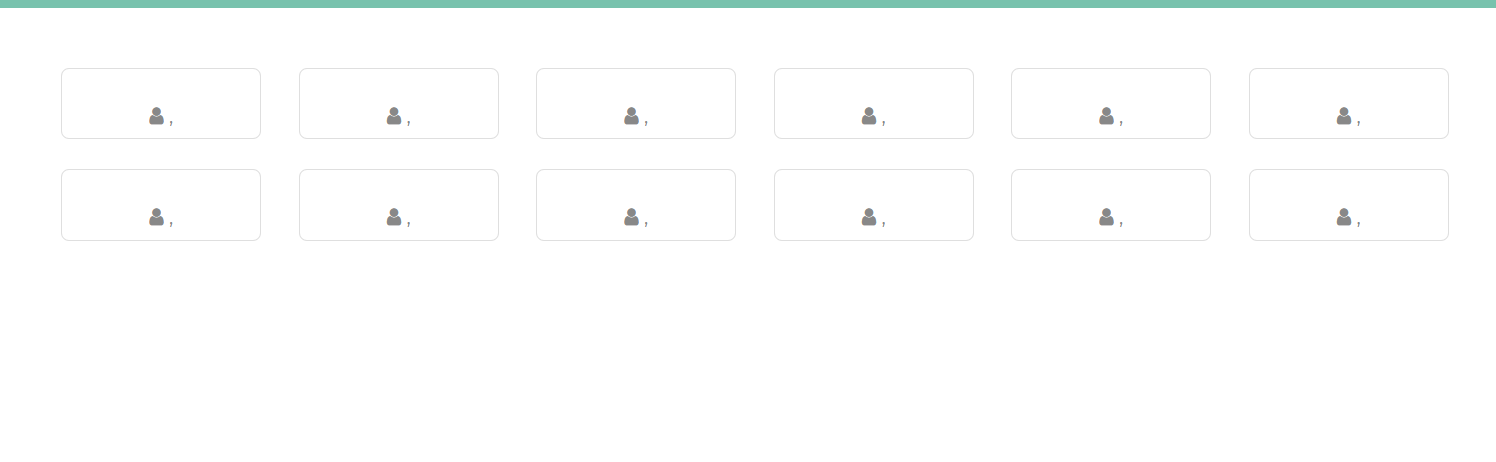
Throughout the project I kept an error log for all the problems I encountered, whether it was from errors in development to simple syntax errors. I was gone through some of the errors I encountered and how I overcame them.



Status: 500 Internal Server Error, Http status code meaning there was an error in request, which links back to the controller handling the requests from the DTO.



When storing the Photo, there was an error retrieving the photo’s URL from Cloudinary, this was due to mistaken credentials put in for API key.



This error was due to the GetUsers request in backend as I had stored the users in string of user and not users, so the system did not see any error because it was in a string and would still continue to run the project.



This was from the html aspect of having user !loggedIn, when it should have been if user loggedIn.