

SENG 2021 - Weekly Cri Sesh - Deliverable 1

Members

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Table of Contents

[Introduction](#)

[Part 1: Problem Statement](#)

[Part 2: Identify and Describe User Stories](#)

[High Level Requirements](#)

[Complex Features](#)

[Split into User Stories](#)

[Part 3. Low-Fidelity Prototype](#)

[Storyboard Interaction Graphs](#)

[UI Component Sketches](#)

[Storyboard Interaction + UI Component Sketches](#)

[Lo-fi components with annotated screenshots explaining which user story it relates to](#)

[Part 4. High-Fidelity Prototype](#)

Introduction

Throughout history there have been epidemics such as the Spanish influenza, ebola, SARS and more recently COVID-19 that have led to mass panic. A major contributor to this mass panic is the large amounts of misinformation being spread, due to the large variety of sources with and without medical basis. In addition to this, the population tends to overburden medical centres during these times of crisis due to hysteria of them possibly contracting the disease.

Furthermore, during an epidemic free time people still die from basic medical problems simply because they were misinformed. People have died from allergies in medicine, incorrect dosages, and preventable diseases since they could not afford the medication. These deaths have exemplified the lack of medical knowledge the general public have.

There are a few products online that collate news sources or allow for medical tracking, but none that will answer all medical queries that individuals, causing for them to not be very successful. As a result, the team at 'Weekly Cri Sesh' saw the need to develop a product that can assist individuals in their everyday medical problems as well as during times of panic to reduce the pressure on medical staff.

Part 1: Problem Statement

- 1) There is no clear consistent message regarding diseases/ treatment from news sources causing people to be over/under cautious.
- 2) Some patients have died from being unaware of the effects or ingredients of drugs they are taking.
- 3) Patients are unable to afford medication advised to them even with cheaper alternatives they are unaware of.
- 4) Patients struggle to keep track of when to take their medicines and what to take.
- 5) Individuals are not up to date or aware of their current medical histories leading to health issues when diagnosing.

Part 2: Identify and Describe User Stories

High Level Requirements

Due to problem statement 1, we require that:

- HL1: As a user, I want access to news that shows all news articles based on a search term that can be sorted how I wish so that I am as well-informed as possible.

Due to problem statement 2, we require that:

- HL2: As a user, I want access to an encyclopedia about all known drugs/diseases and receive alerts if I am taking drugs that can endanger my health to avoid sickness/death.

Due to problem statement 3, we require that:

- HL3: As a user, I want access to a map that will show me the prices of drugs at recognised chemists so that I can compare prices of drugs that will offer me the same help.

Due to problem statement 4, we require that:

- HL4: As a user, I want to be able to track my medication and receive reminders about dosages so that I know what I am taking and when I should take it.

Due to problem statement 5, we require that:

- HL5: As a user, I want to be able to keep track of my medical history so that I can diagnose and be aware of potential future issues.

Complex Features

The high level features above are broken down into lower level features. This is shown in the next segment 'Split into User Stories' denoted by a code after the user story number. E.g. User Story 1 (HL1) denotes that User Story 1 is related to the high level requirement 1.

Split into User Stories

User Story 1: (HL1)

Feature: A news section on your dashboard that shows all news articles in sections of 10 based on a search term.

As a user, I want to attain my information in one location through credible resources with backed-up data **so that** I avoid misinformation.

GIVEN: That I am on my home dashboard.

THEN: I am able to see the news application.

WHEN: I click the 'News' button.

THEN: I am able to search for a term.

WHEN: I type a search term.

AND: Press the search button.

THEN: I will be presented with the first page of 10 results containing that term within 2 seconds.

User Story 2: (HL1)

Feature: A drop down menu on the news section, allowing users to sort articles by date, number of references, viewer numbers, etc.

As a user, I want to be able to sort news sources by credibility and date **so that** I am as well-informed as possible.

FEATURE: A drop down menu on the news application, allowing users to sort articles by date, number of references, viewer numbers.

GIVEN: I am using the news application.

THEN: I can select sorting filters using a drop down menu.

WHEN: I select a filter.

AND: I enter a term into the search.

AND: I press the search button.

THEN: I will be presented with the first page of 10 results sorted in the chosen order within 2 seconds.

User Story 3: (HL2)

Feature: A medical encyclopedia that allows for searches through an API/ database.

As a patient I want to be able to access information about drugs **so that** I can gain knowledge about them.

GIVEN: I am on the home dashboard.

THEN: I am able to select the 'encyclopedia' button.

WHEN: I select the 'encyclopedia' button.

THEN: I am prompted with a search tool.

WHEN: I enter a search term.

AND: Press the search button.

THEN: I will be shown a list of medications and diseases that are relevant to my search.

WHEN: I am viewing the top 10 most relevant results of my search within 2 seconds.

THEN: I am able to select one of the results, showing me information about it.

User Story 4: (HL2)

Feature: An alert system for patients when they enter an unhealthy combination of drugs into their currently used medications.

As a patient, I want to be notified when I am taking an unhealthy combination of drugs **so that** I avoid sickness/ death.

GIVEN: I am using the ‘encyclopedia’ or the ‘calendar’ application.

WHEN: I select a drug.

AND: I have drug(s) in my recorded list of currently used medicines that should not be used in conjunction with the selected drug.

THEN: I will be shown a modal after selecting the result, with an appropriate message within 2 seconds.

User Story 5: (HL2)

Feature: An alert system for patients when they enter drug(s) that can trigger allergic reactions.

As a patient, I want to be able to be alerted if a medication will set off an allergic reaction **so that** I avoid sickness/ death.

GIVEN: I am using the ‘encyclopedia’ or the ‘calendar’ application.

WHEN: I select a drug.

AND: I have allergies or a condition that prevents me from using it that is recorded in the application.

THEN: I will be shown a modal after selecting the result within 2 seconds.

User Story 6: (HL3)

Feature: A ‘Local Chemist’ application that compares the prices of specified medications from chemists in a local radius based on a search term.

As a user, I want to be able to compare prices of certain drugs across local stores **so that** I can find the cheapest price.

GIVEN: I am on the home dashboard.

THEN: I am able to select the ‘Local Chemist’ button.

WHEN: I select the ‘Local Chemist’ application.

THEN: I can enter a search term for a specific drug.

WHEN: I press the search button.

THEN: I am shown a drop down selection of the 10 most relevant drugs.

WHEN: I select one of the drugs.

THEN: I am shown the prices of the selected drug at local chemists in increasing order within 2 seconds.

User Story 7: (HL3)

Feature: (above) 'Local Chemist' application can search by UDI

As a user, I want to find drugs based on their unique drug identifier (UDI) **so that** I can find cheaper equivalent alternatives.

GIVEN: I am using the 'Local Chemist' application.

WHEN: I can enter a certain UDI into the search tool.

AND: I press search.

THEN: I am shown the prices of at most 10 drugs with the corresponding UDI at local chemists in increasing order.

User Story 8: (HL4)

Feature: Reminders to take medications

As a patient, I want to be reminded of when to take my medication **so that** I can stick to my medication schedule.

GIVEN: I am on the main application page.

WHEN: I click on a calendar date.

THEN: I can schedule when to take a specific medication.

WHEN: I need to take my medication.

THEN: I receive a notification reminder.

User Story 9: (HL4)

Feature: A calendar to view reminders

As a patient, I want to see an overview of my medication schedule **so that** I can anticipate when to take them.

GIVEN: I am on the main application page.

THEN: I see my personal schedule immediately.

User Story 10: (HL5)

Feature: A 'Medical History' page where you can view conditions.

As a user, I want to know my medical history **so that** my condition can be diagnosed by my doctor accurately.

GIVEN: I am on the main application page.

WHEN: I click the 'Medical History' button

THEN: I can see an overview of my history within 2 seconds

User Story 11: (HL5)

Feature: A 'Medical History' page where you can enter my conditions or symptoms.

As a user, I want to enter my conditions or symptoms **so that** they can be considered when I am being diagnosed.

GIVEN: I am on the 'Medical History' page.

WHEN: I click the 'Add Conditions' button

THEN: I can add my pre-existing conditions within 2 seconds.

User Story 12: (HL5)

Feature: A 'Medical History' page where you can enter current medications.

As a user, I want to enter my current medications **so that** its effects can be considered when being prescribed new medications.

GIVEN: I am on the 'Medical History' page.

WHEN: I click the 'Add Medications' button

THEN: I can add my new medications within 2 seconds.

User Story 13: (HL5)

Feature: A notification of when to visit the doctor.

As a user, I want to know the severity of my symptoms **so that** I know when to see a doctor.

GIVEN: I am on the 'Medical History' page

WHEN: I enter my current conditions or symptoms

THEN: The application matches the symptoms to the database

WHEN: The condition is severe

THEN: I receive a notification to see the doctor immediately.

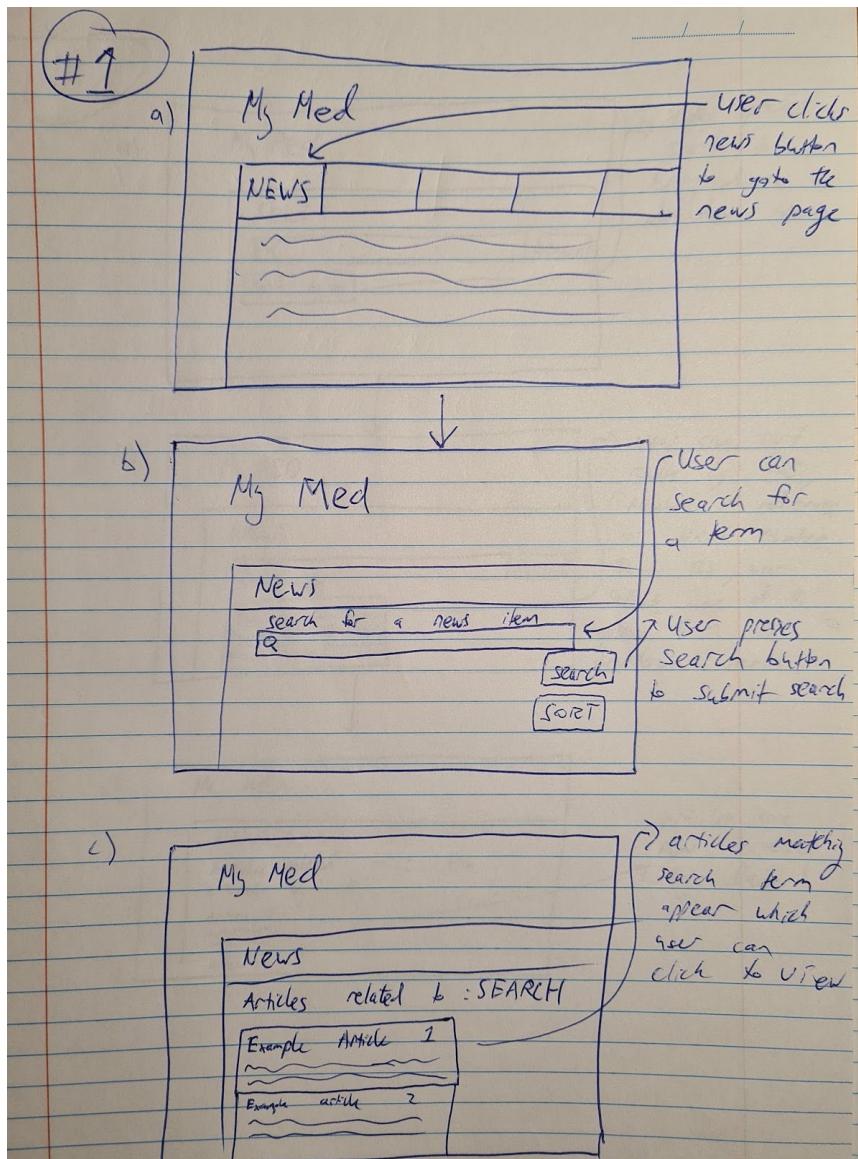
Part 3. Low-Fidelity Prototype

Storyboard Interaction Graphs

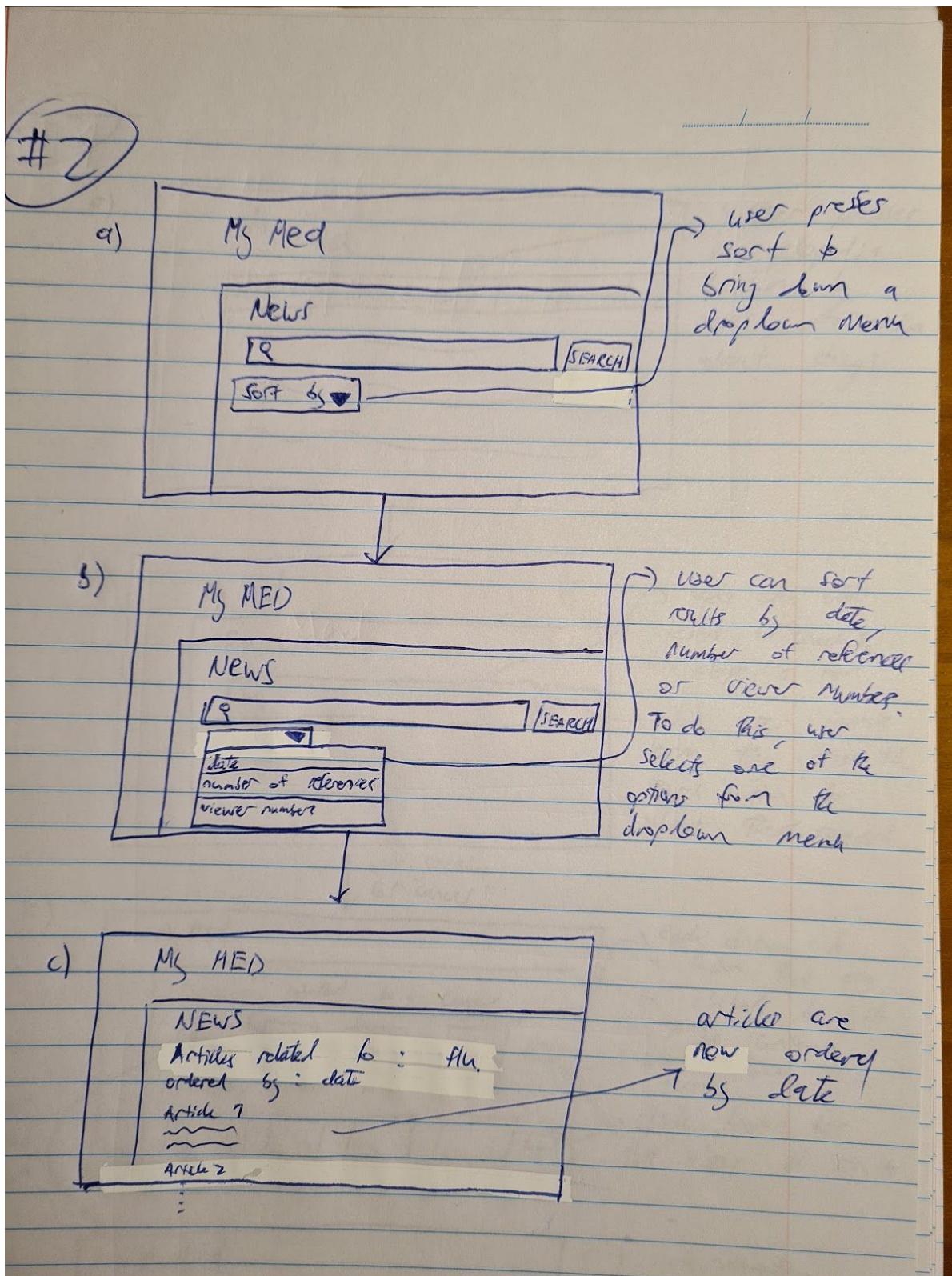
UI Component Sketches

Storyboard Interaction + UI Component Sketches

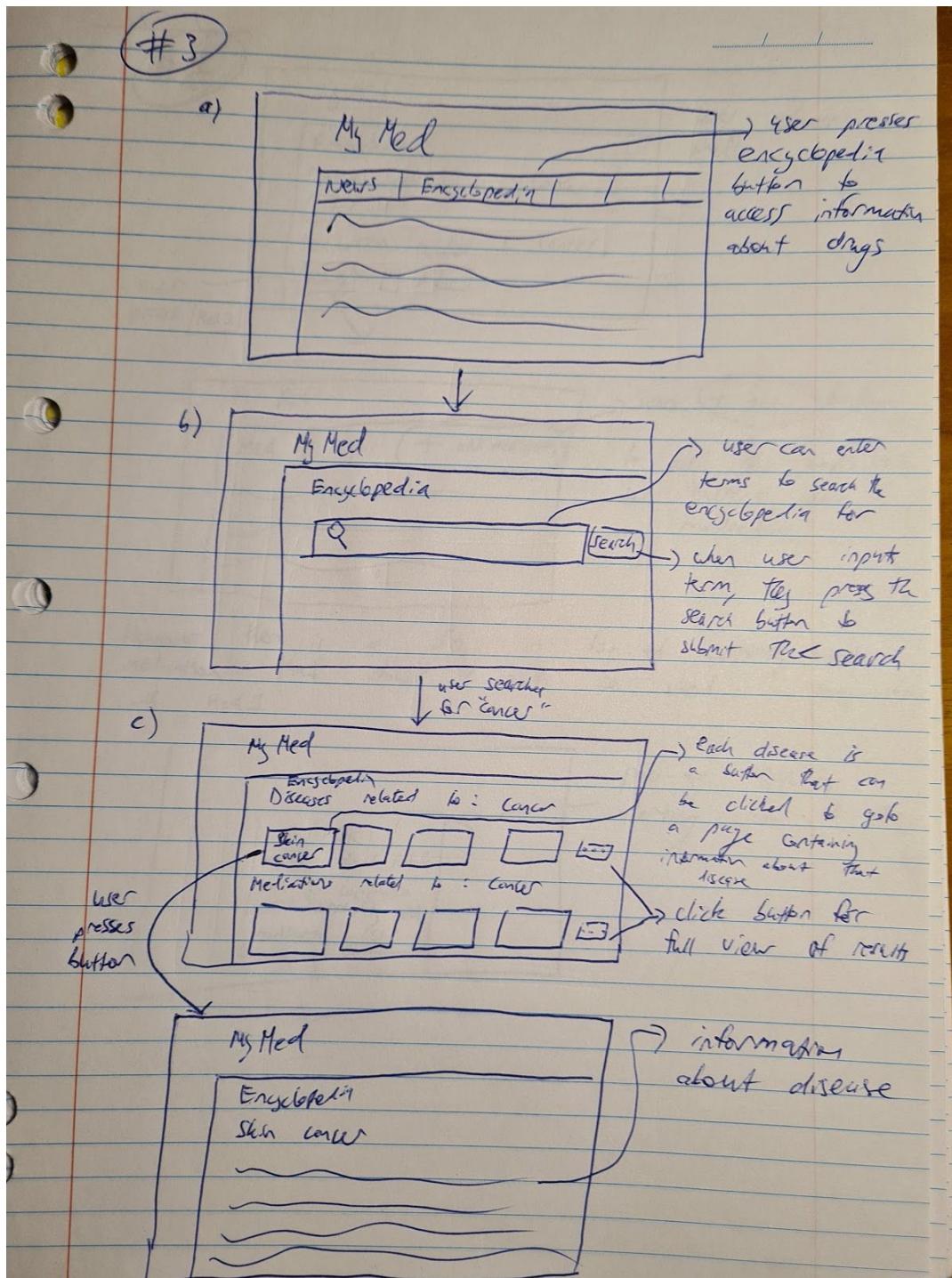
US1 - As a user, I want to attain my information in one location through credible resources with backed-up data so that I avoid misinformation.



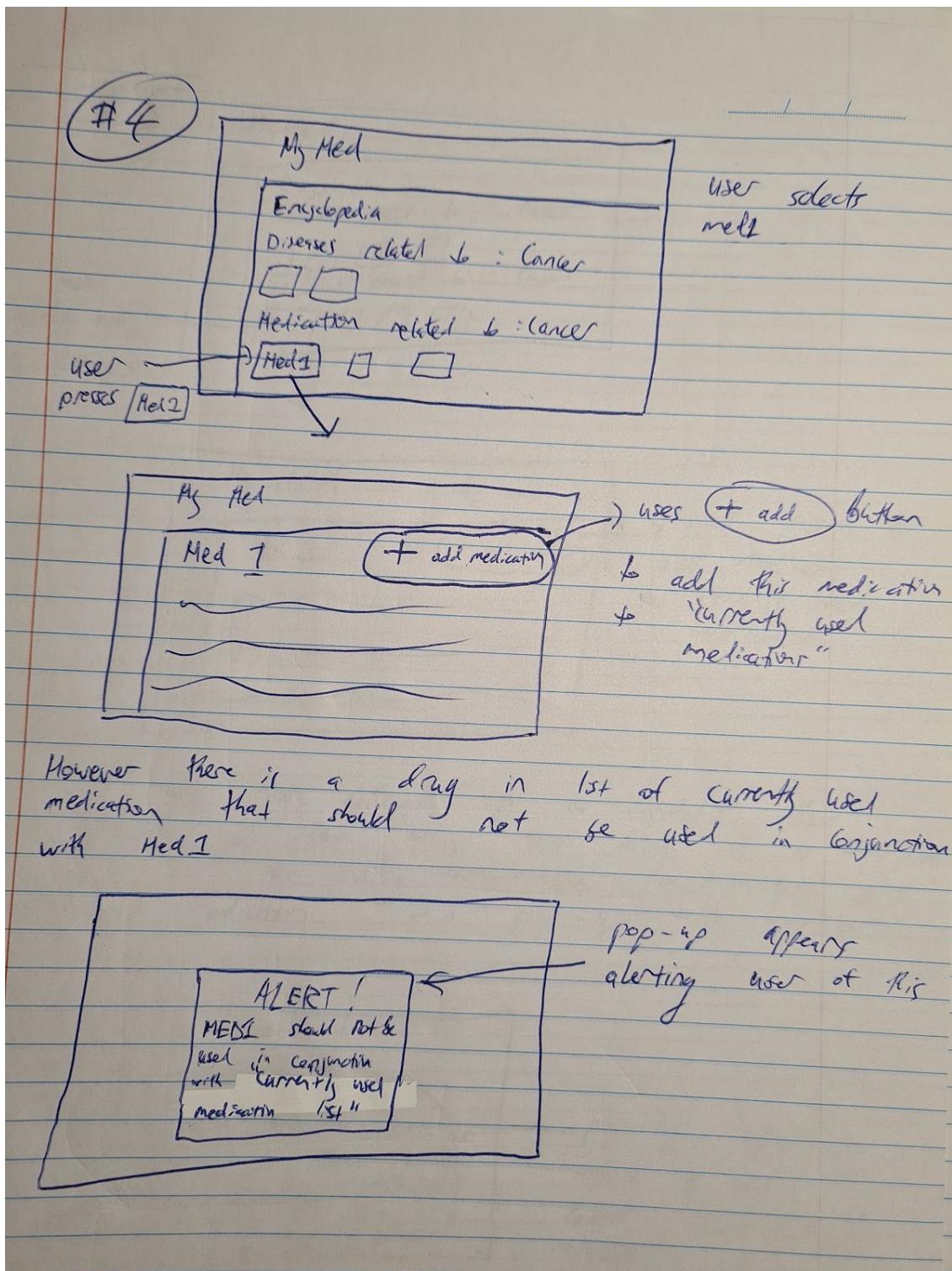
US2 - As a user, I want to be able to sort news sources by credibility and date so that I am as well-informed as possible.



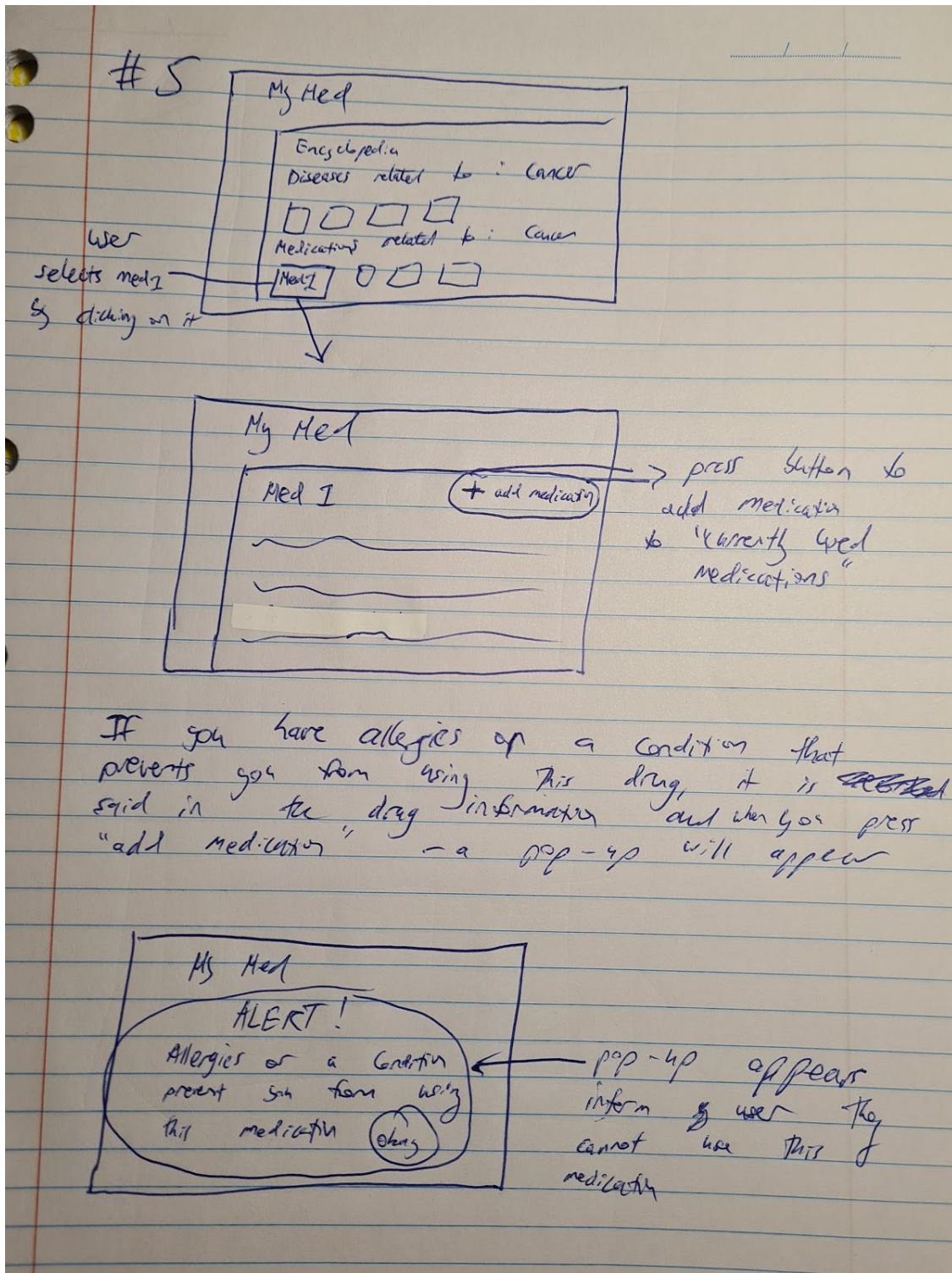
US3 - As a patient I want to be able to access information about drugs so that I can gain knowledge about them.



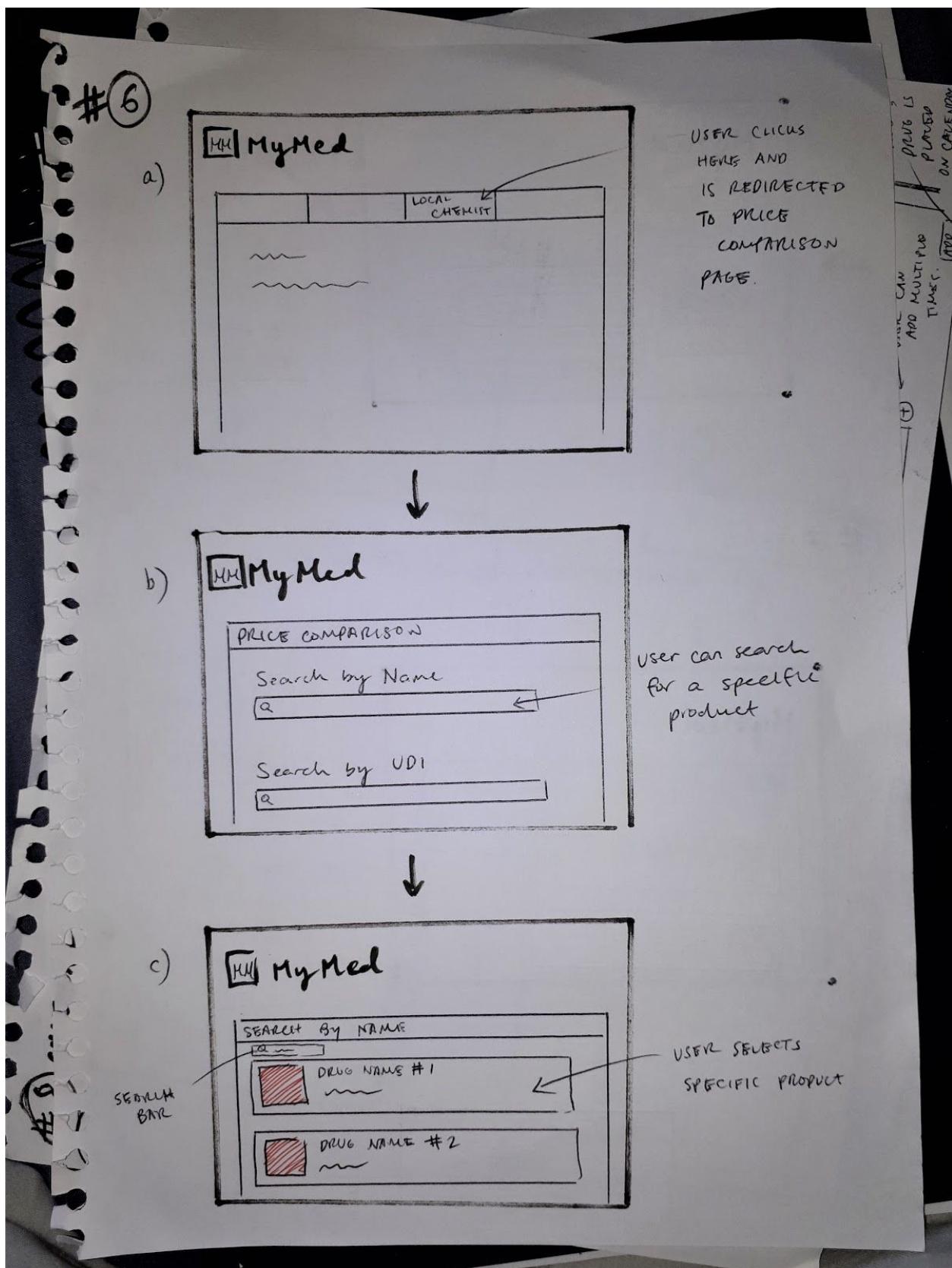
US4 - As a patient, I want to be notified when I am taking an unhealthy combination of drugs so that I avoid sickness/ death.

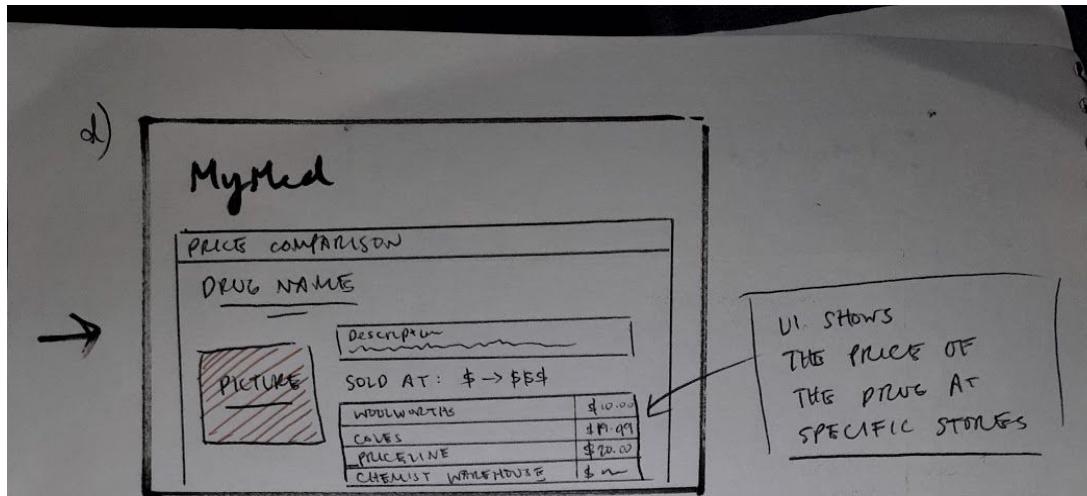


US5 - As a patient, I want to be able to be alerted if a medication will set off an allergic reaction so that I avoid sickness/ death.

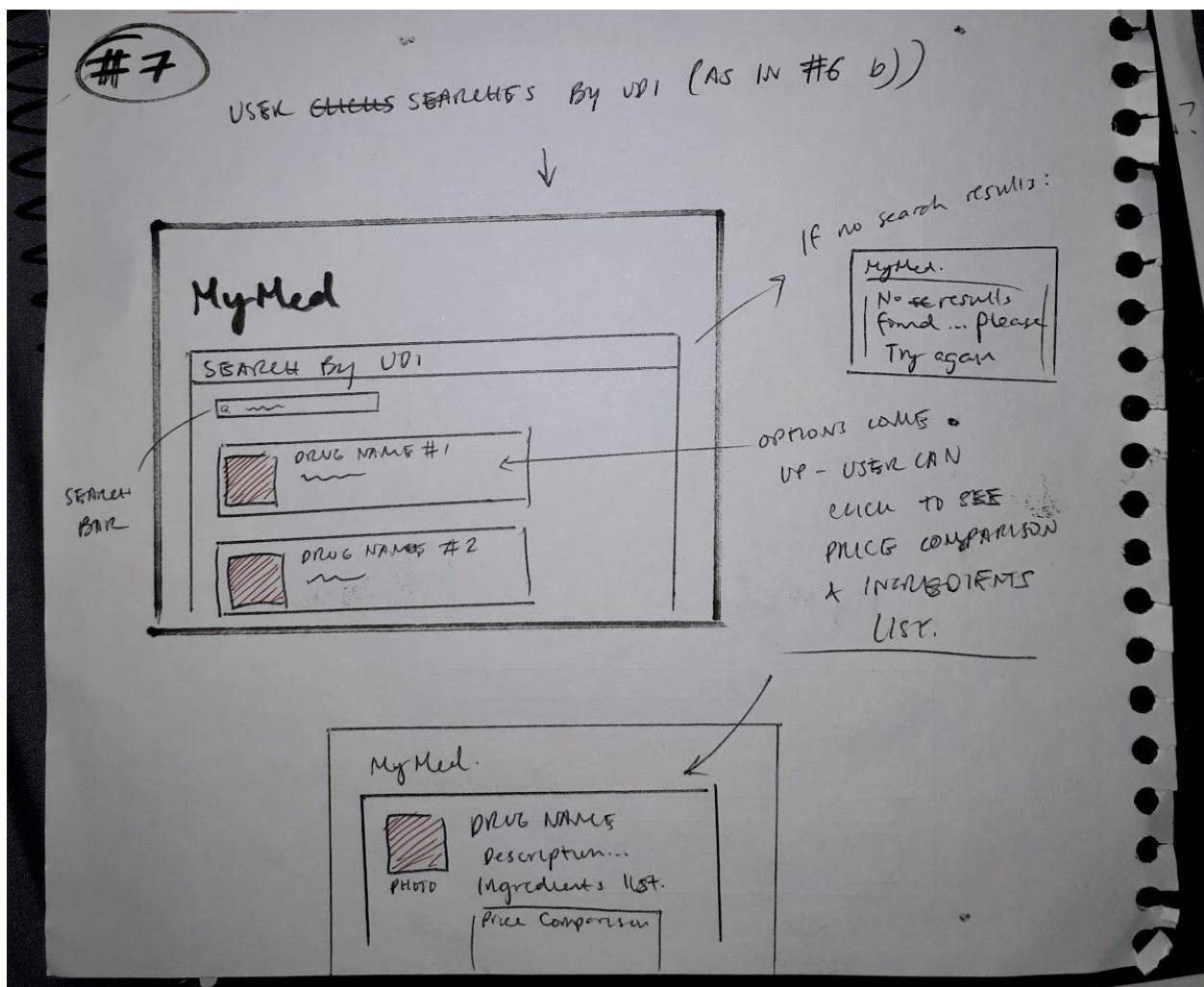


US6 - As a user, I want to be able to compare prices of certain drugs across local stores so that I can find the cheapest price.



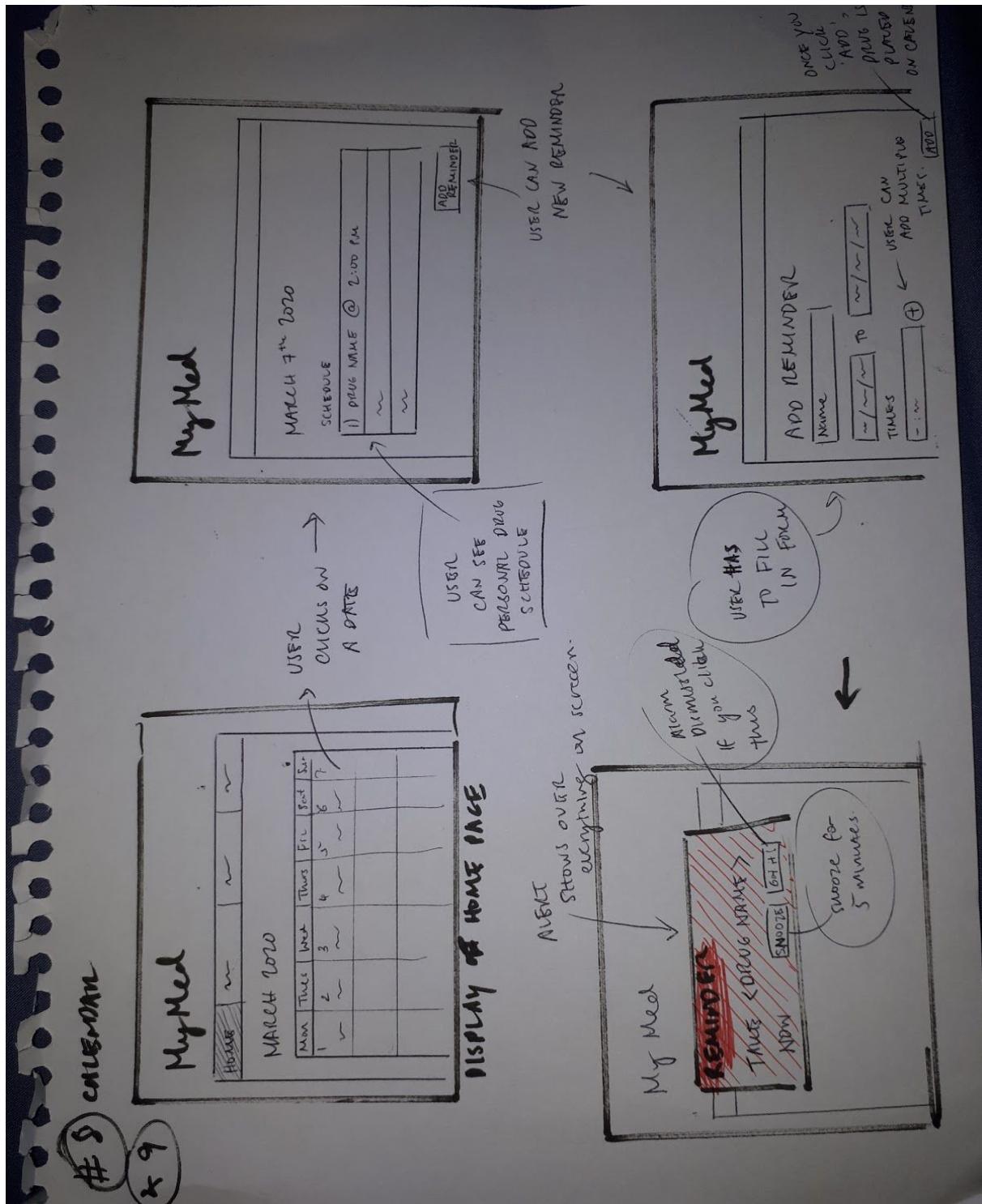


US7 - As a user, I want to find drugs based on their unique drug identifier (UDI) so that I can find cheaper equivalent alternatives.

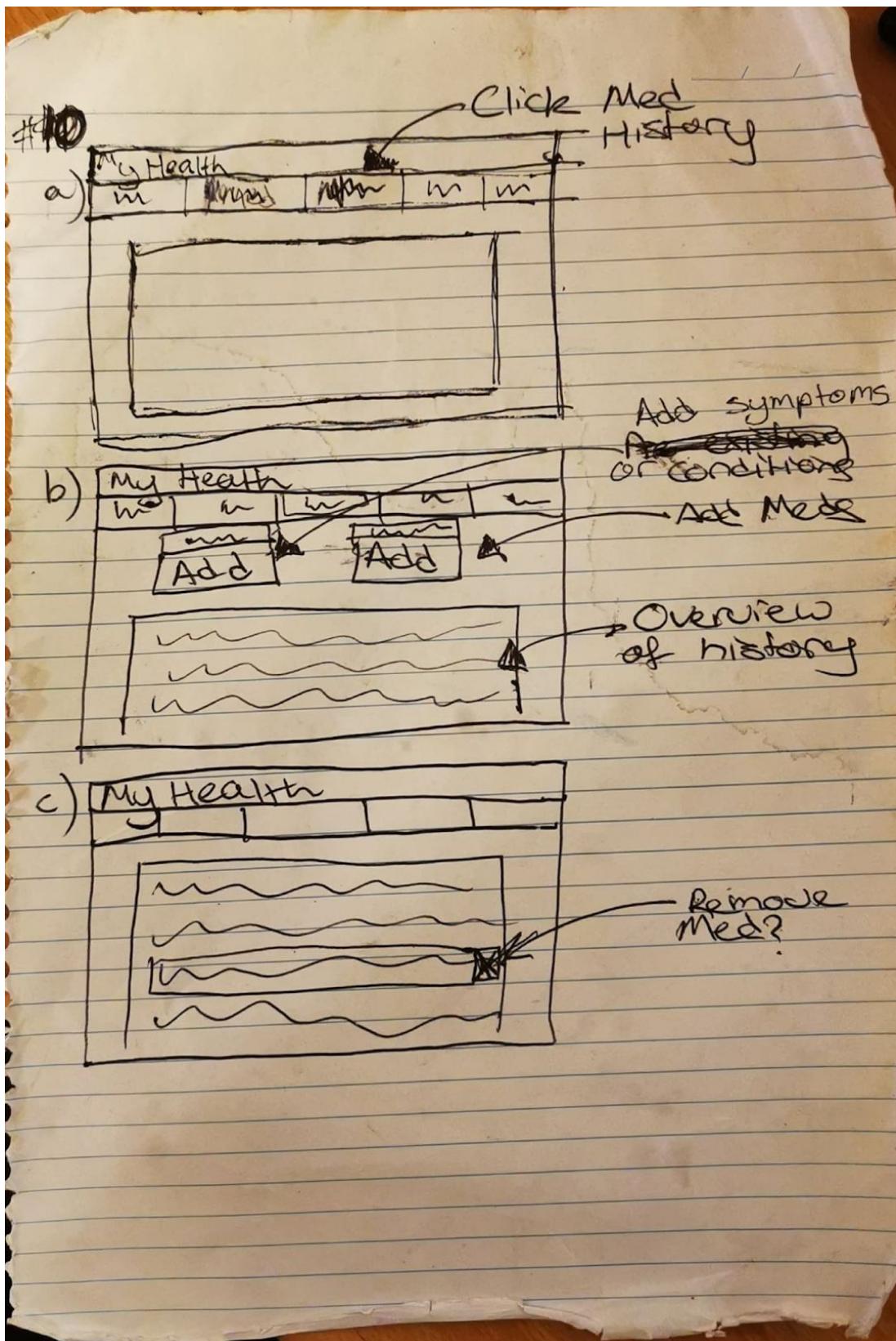


US8 - As a patient, I want to be reminded of when to take my medication so that I can stick to my medication schedule.

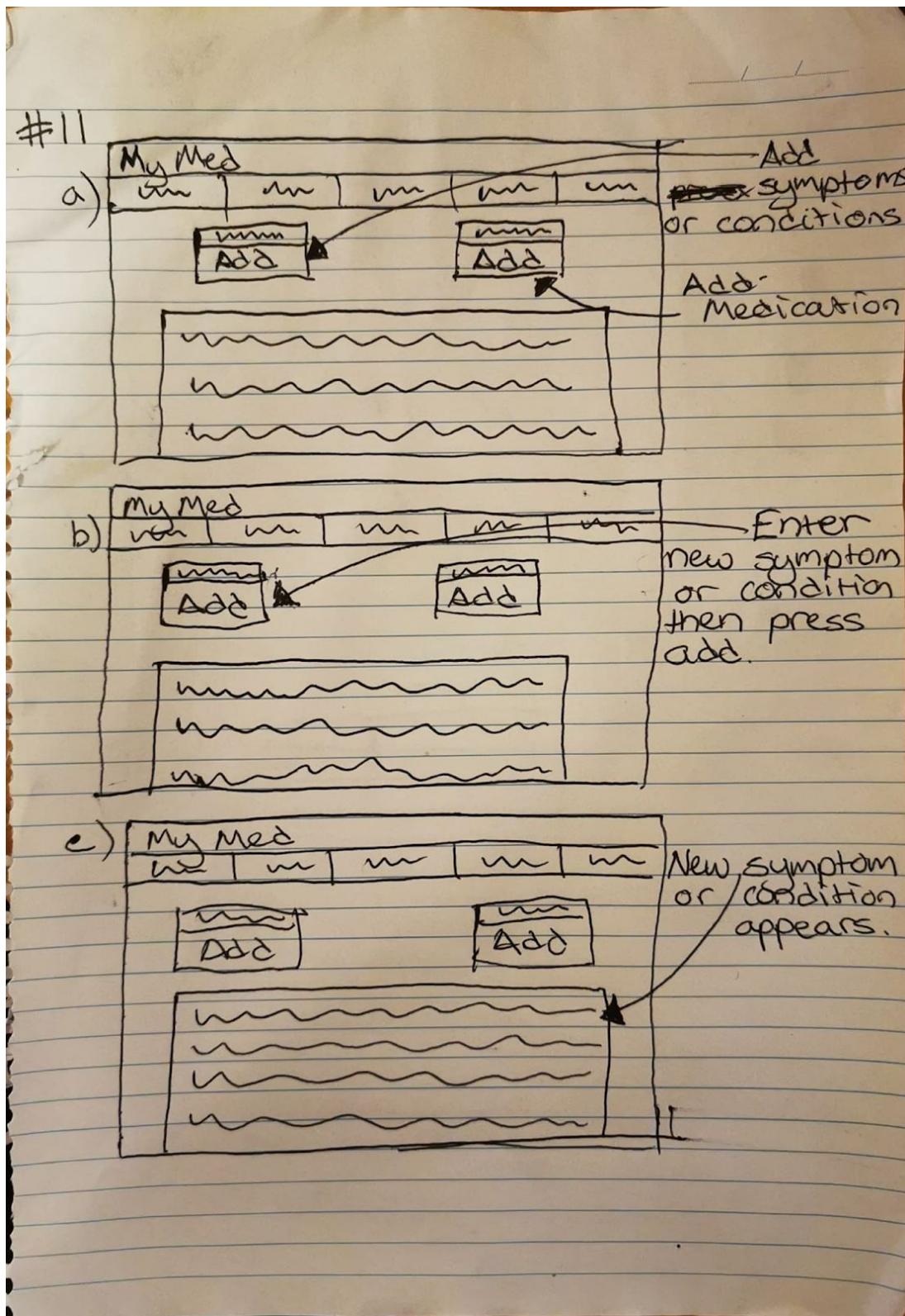
US9 - As a patient, I want to see an overview of my medication schedule so that I can anticipate when to take them.



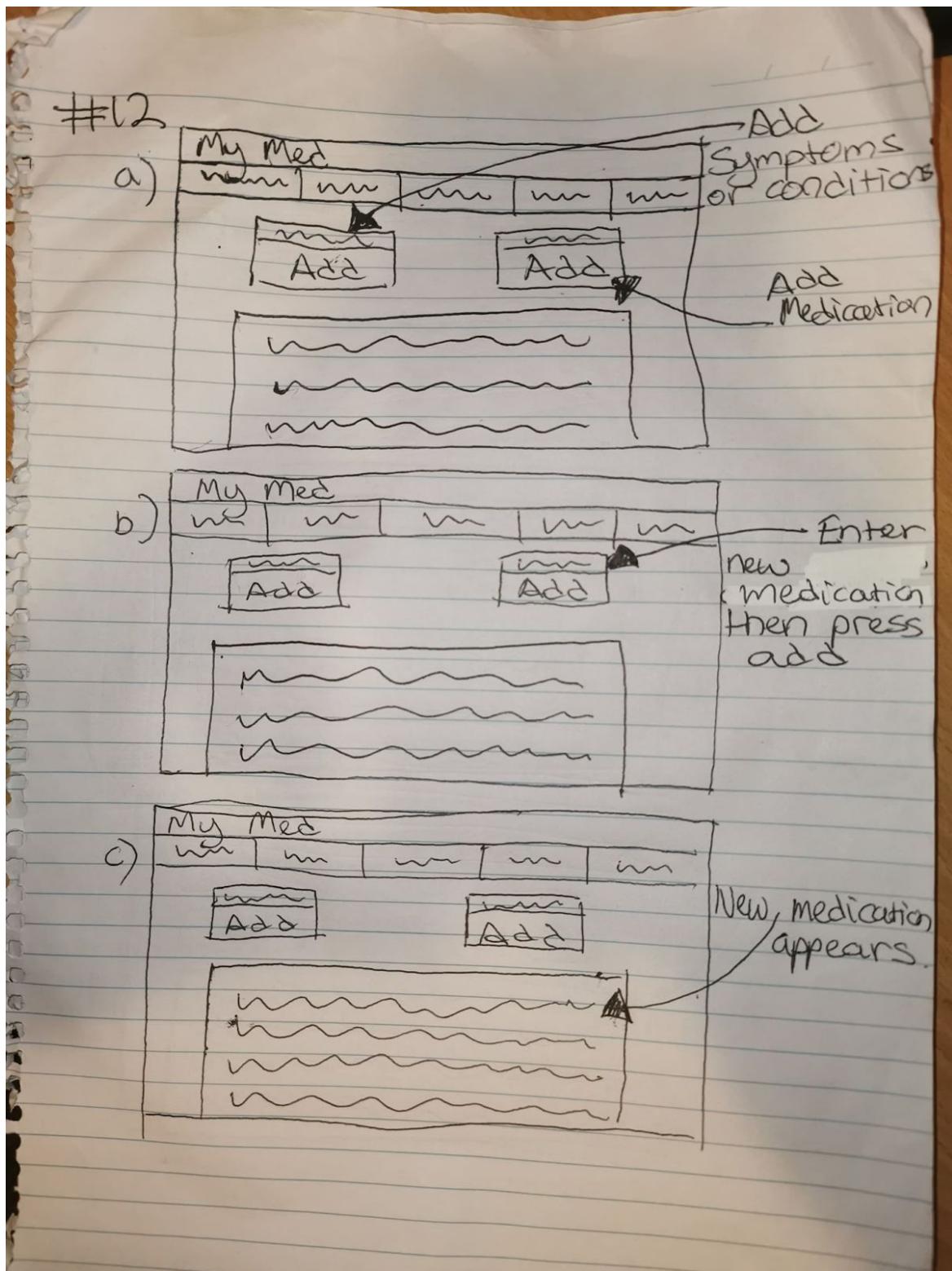
US10 - As a user, I want to know my medical history so that my condition can be diagnosed by my doctor accurately.



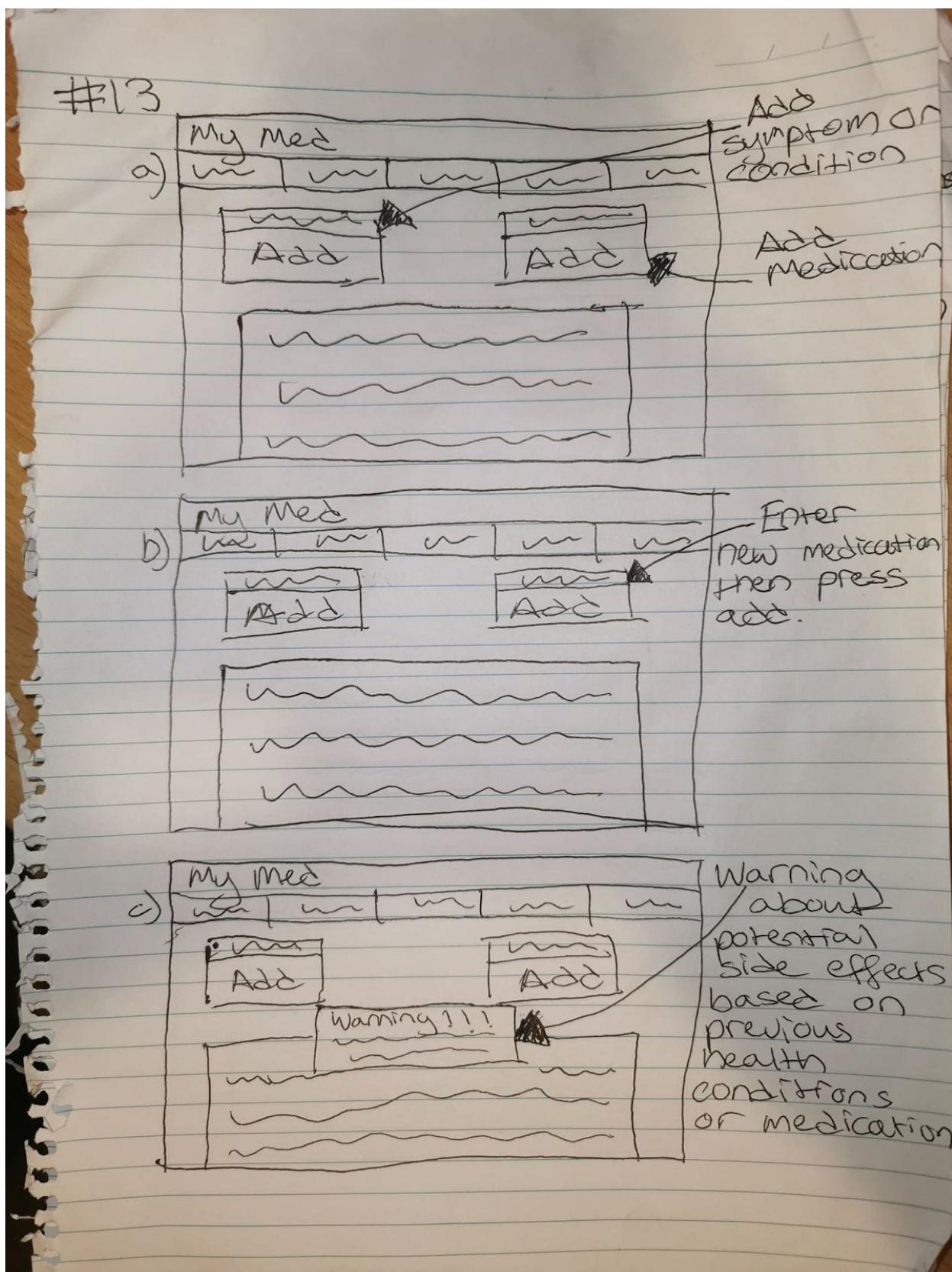
US11 - As a user, I want to enter my conditions or symptoms so that they can be considered when I am being diagnosed.



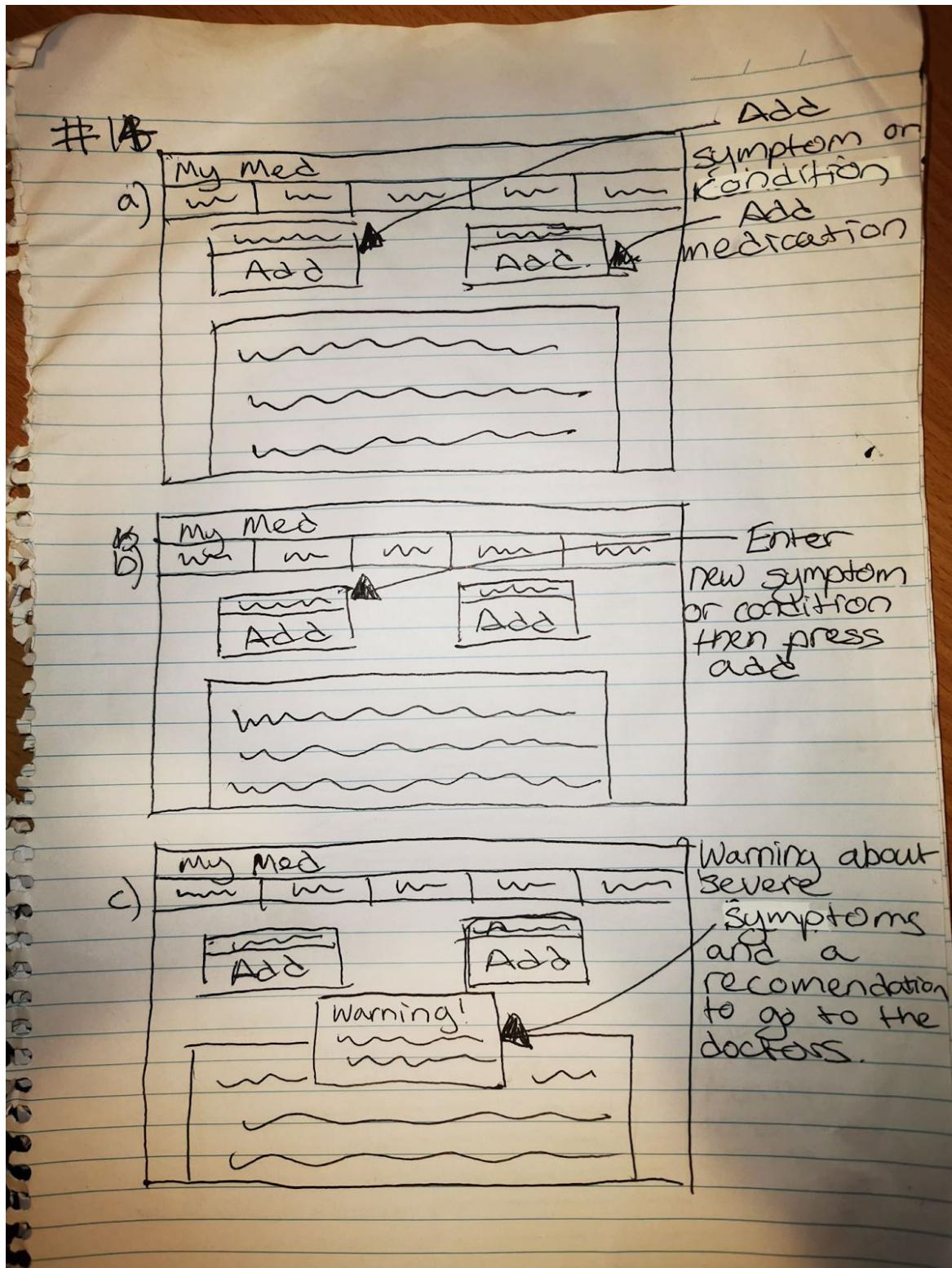
US12 - As a user, I want to enter my current medications so that its effects can be considered when being prescribed new medications.



US13 - As a user, I want to know my medical history so that I can be aware of any side effects I may have after taking certain medications.

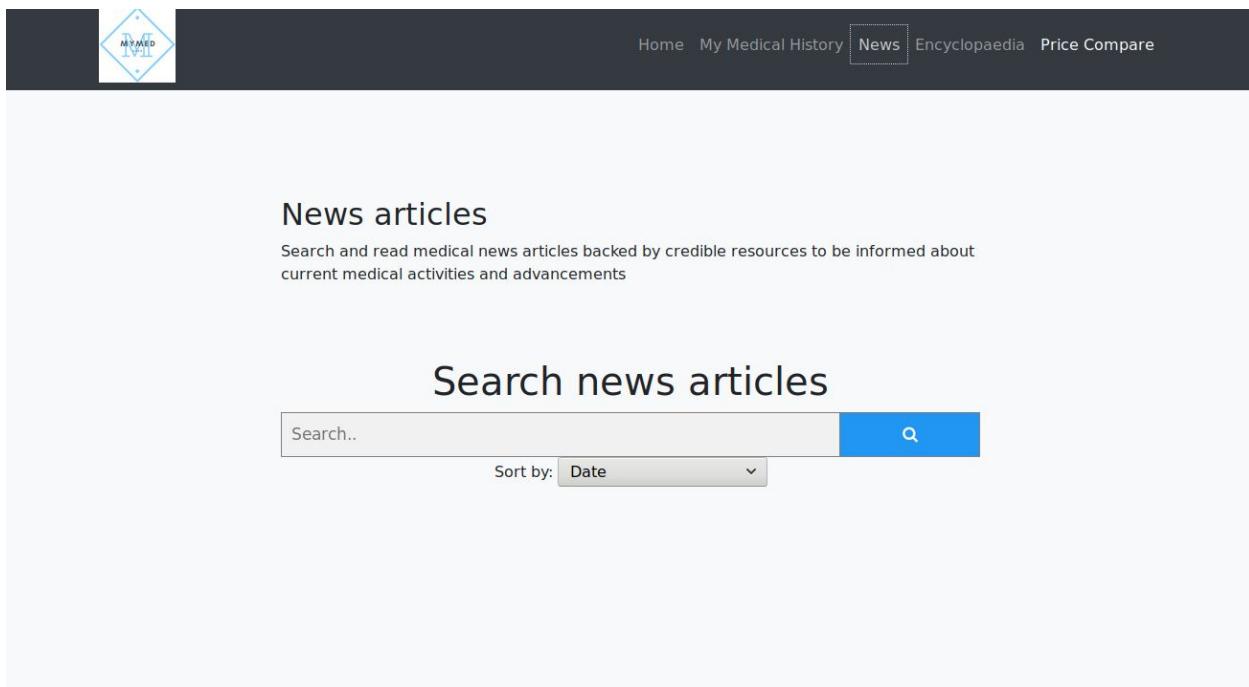


US14 - As a user, I want to know the severity of my symptoms so that I know when to see a doctor.



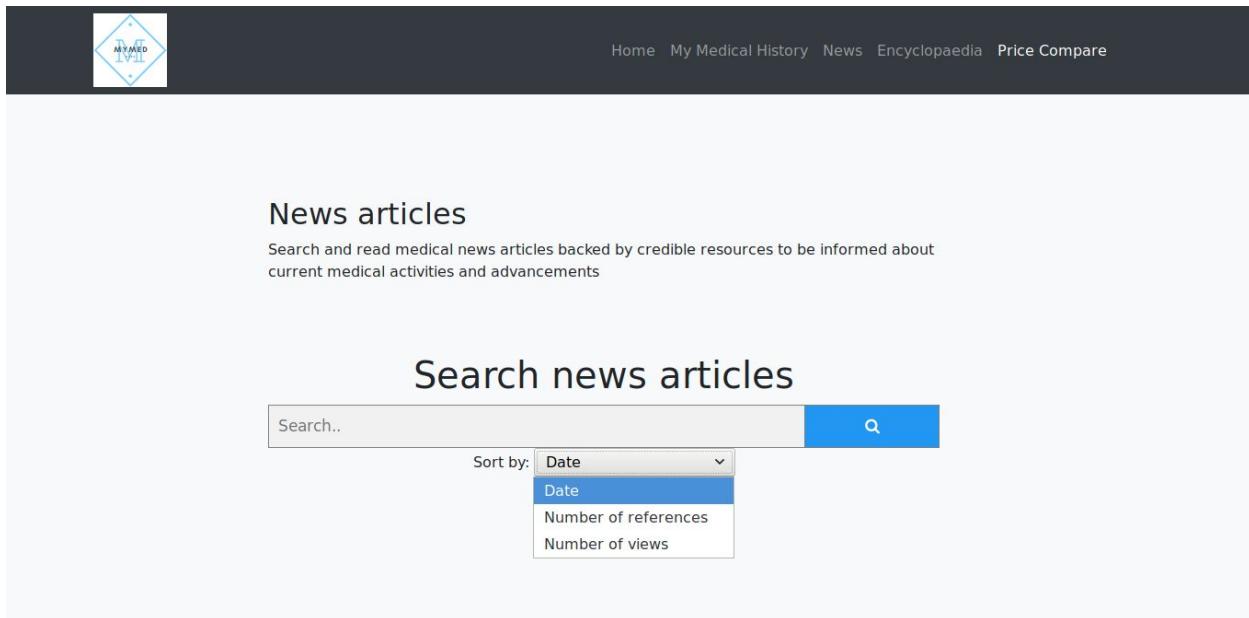
Part 4. High-Fidelity Prototype

US1 - As a user, I want to attain my information in one location through credible resources with backed-up data so that I avoid misinformation.



The screenshot shows a dark-themed medical website interface. At the top, there is a navigation bar with links: Home, My Medical History, News (which is highlighted in blue), Encyclopaedia, and Price Compare. Below the navigation bar, there is a large, empty white area representing the main content. In the center of this area, the text "News articles" is displayed in bold. Below it, a subtitle reads: "Search and read medical news articles backed by credible resources to be informed about current medical activities and advancements".

US2 - As a user, I want to be able to sort news sources by credibility and date so that I am as well-informed as possible.



The screenshot shows the same medical website interface as the previous one, but with a visible dropdown menu for the "Sort by:" field. The "Sort by:" field is currently set to "Date". A dropdown menu is open, showing three options: "Date" (which is highlighted in blue), "Number of references", and "Number of views".

US3 - As a patient I want to be able to access information about drugs so that I can gain knowledge about them.

The screenshot shows a dark grey header bar with a logo on the left. To the right of the logo are several menu items: Home, My Medical History, News, Encyclopaedia (which is highlighted in blue), and Price Compare. Below the header is a large, light-colored search or content area.

Encyclopedia

Search our encyclopedia for information on drugs and diseases

Search encyclopedia

DRUG YOU WANT TO SEARCH



US4 - As a patient, I want to be notified when I am taking an unhealthy combination of drugs so that I avoid sickness/ death.

The screenshot shows a dark header bar with a logo on the left. To the right of the logo are menu items: Home, My Medical History, News, Encyclopaedia, and Pharmacies Near Me. Below the header is a blue banner with the word "Encyclopedia" in white. Underneath the banner, the text "TELFAST 180mg Hayfever Allergy Reliefs" is displayed. At the bottom of the page, there is a note about medication interactions and a product image of Telfast tablets.

+ ADD MEDICATION

x Danger! The medication is not to be used in conjunction with other medicine(s) in your currently used medications list



Lorem ipsum dolor sit amet, consectetur adipisicing elit. Vero odio fugiat voluptatem dolor, provident officiis, id iusto! Obcaecati incidunt, qui nihil beatae magnam et repudiandae ipsa exercitationem, in, qui

US5 - As a patient, I want to be able to be alerted if a medication will set off an allergic reaction so that I avoid sickness/ death.

The screenshot shows a blue header bar with a logo and navigation links: Home, My Medical History, News, Encyclopaedia, and Pharmacies Near Me. Below the header, the word "Encyclopedia" is displayed in large white letters. The main content area features a heading "TELFAST 180mg Hayfever Allergy Reliefs". Underneath the heading is a button labeled "+ ADD MEDICATION". A warning message follows: "x Danger! The medication cannot be added to your list of currently used medication because it may set off your allergic reaction".



Lorem ipsum dolor sit amet, consectetur adipisicing elit. Vero odio fugiat voluptatem dolor, provident officiis, id iusto! Obcaecati incident, qui nihil beatae magnam et repudiandae ipsa exercitationem, in,

US6 - As a user, I want to be able to compare prices of certain drugs across local stores so that I can find the cheapest price.

The screenshot shows a dark header bar with a logo and navigation links: Home, My Medical History, News, Encyclopaedia, and Price Compare. Below the header, the words "Search by Name" are displayed in large white letters. A search bar contains the text "Telfast" and has a blue search icon on its right.

Search by Unique Drug Identifier (UDI)

A screenshot of a search interface showing a search bar with the placeholder "Search.." and a blue search icon on its right.

The screenshot shows a grid of product cards for Telfast Hayfever Allergy Relief tablets. Each card includes the product image, retailer name, price, and a star rating.

Retailer	Product Image	Price	Rating
Priceline		\$14.99	★★★★★
Woolworths		\$12.99	★★★★★
Coles		\$12.00	★★★★★

US7 - As a user, I want to find drugs based on their unique drug identifier (UDI) so that I can find cheaper equivalent alternatives.

The screenshot shows two search input fields. The top field is labeled "Search by Name" and the bottom field is labeled "Search by Unique Drug Identifier (UDI)". Both fields have a placeholder text and a blue search button.

Search Type	Placeholder Text
Search by Name	Search..
Search by Unique Drug Identifier (UDI)	Fexofenadine



Home About Services Contact

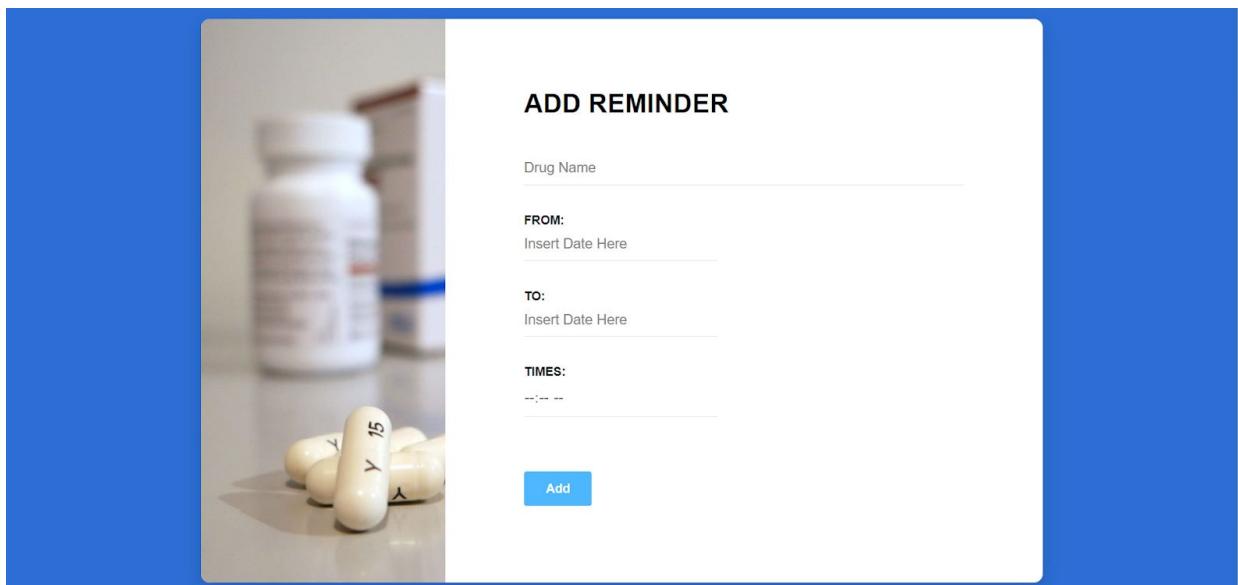
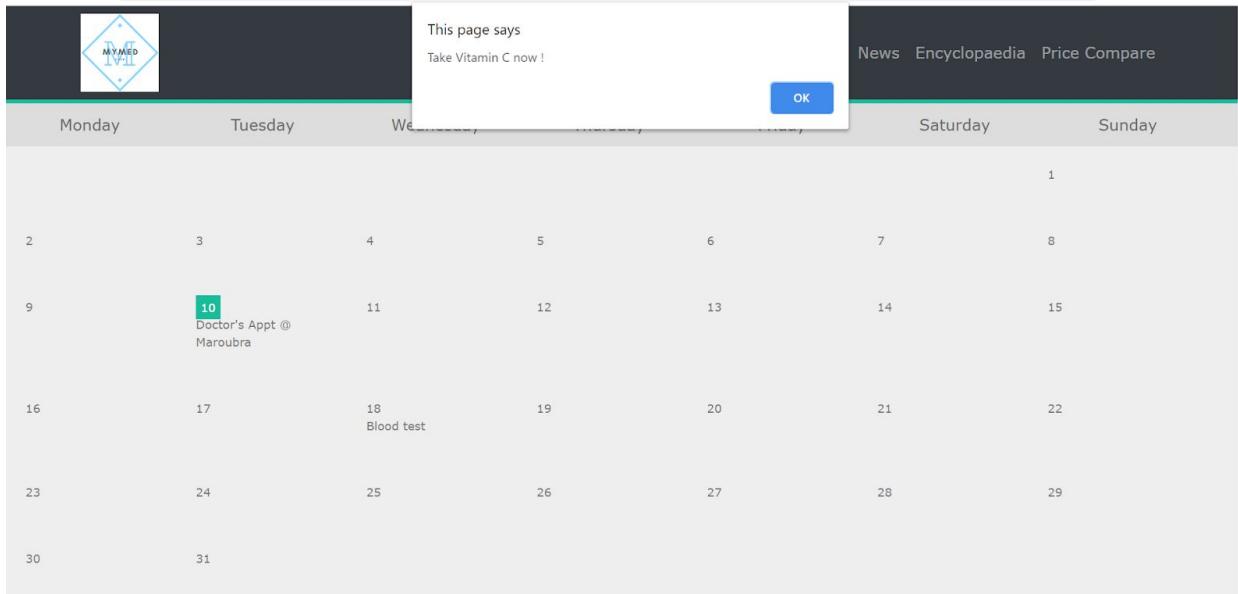
 <p>Zyrtec Allergy & Hayfever Antihistamine Tablets 30 Pack</p> <p>\$14.99</p> <p>Zyrtec Allergy & Hayfever Antihistamine Tablets 30 Pack</p> <p>★★★★★ 5 stars</p>	 <p>Claratyne Hayfever & Allergy Relief Antihistamine Tablets 75 pack</p> <p>\$12.99</p> <p>Claratyne Hayfever & Allergy Relief Antihistamine Tablets 75 pack</p> <p>★★★★★ 5 stars</p>	 <p>Telfast Hayfever Allergy Relief Non Drowsy 120mg 10 pack</p> <p>\$12.00</p> <p>Telfast Hayfever Allergy Relief Non Drowsy 120mg 10 pack</p> <p>★★★★★ 5 stars</p>
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MyMed

Home About Services Contact

 <p>Zyrtec Allergy & Hayfever Antihistamine Tablets 30 Pack</p> <p>\$24.99</p> <p>ALWAYS READ THE LABEL. FOLLOW DIRECTIONS FOR USE. IF SYMPTOMS PERSIST TALK TO YOUR HEALTHCARE PROFESSIONAL. THIS MEDICINE MAY NOT BE RIGHT FOR YOU. READ THE WARNINGS BEFORE PURCHASE. THE PHARMACIST RESERVES THE RIGHT TO NOT SUPPLY CONTRARY TO OUR PROFESSIONAL AND ETHICAL OBLIGATION.</p> <p>★★★★★ 4.0 stars</p>
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US8 - As a patient, I want to be reminded of when to take my medication so that I can stick to my medication schedule.



US9 - As a patient, I want to see an overview of my medication schedule so that I can anticipate when to take them.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
					1	
2	3	4	5	6	7	8
9	10 Doctor's Appt @ Maroubra	11	12	13	14	15
16	17	18 Blood test	19	20	21	22 Take Vitamin C @ 12PM
23	24	25	26	27	28	29
30	31					

US10 - As a user, I want to know my medical history so that my condition can be diagnosed by my doctor accurately.

Medical History

New Symptom or Medical Condition

Add

New Medication

Add

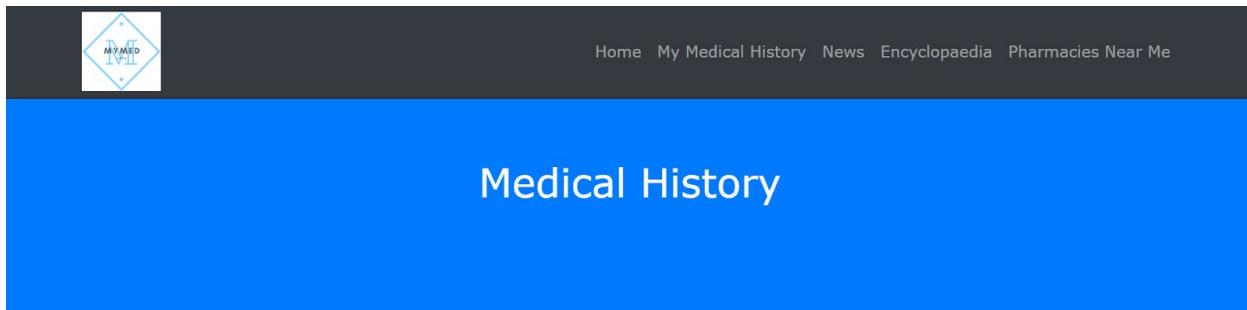
Stomach Ache
1 days ago

General Symptom

Nausea
2 days ago

General Symptom

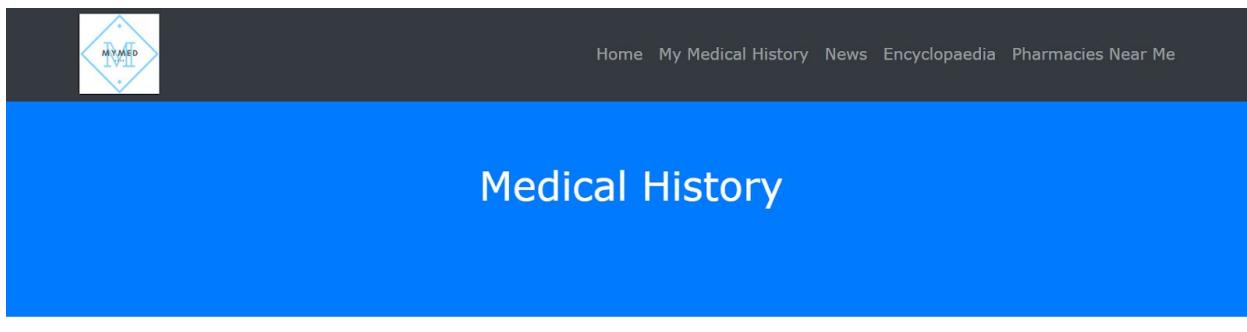
US11 - As a user, I want to enter my conditions or symptoms so that they can be considered when I am being diagnosed.



The screenshot shows a medical history application interface. At the top, there is a dark header bar with a logo containing a stylized 'M' and the word 'MYMED'. To the right of the logo are links for 'Home', 'My Medical History', 'News', 'Encyclopaedia', and 'Pharmacies Near Me'. Below the header is a large blue section with the title 'Medical History' in white. At the bottom of this blue section are two buttons: 'NEW MEDICAL CONDITION' and 'New Medication', each with an 'Add' button to its right.

Stomach Ache	1 days ago
General Symptom	
Nausea	2 days ago
General Symptom	

US12 - As a user, I want to enter my current medications so that its effects can be considered when being prescribed new medications.



The screenshot shows a medical history application interface. At the top, there is a dark header bar with a logo containing a stylized 'M' and the word 'MYMED'. To the right of the logo are links for 'Home', 'My Medical History', 'News', 'Encyclopaedia', and 'Pharmacies Near Me'. Below the header is a large blue section with the title 'Medical History' in white. At the bottom of this blue section are two buttons: 'New Symptom or Medical Condition' and 'NEW MEDICATION', each with an 'Add' button to its right.

Stomach Ache	1 days ago
General Symptom	
Nausea	2 days ago
General Symptom	

US13 - As a user, I want to know my medical history so that I can be aware of any side effects I may have after taking certain medications.



SEVERE SYMPTOM

Add

New Medication

Add

Stomach Ache

General Symptom

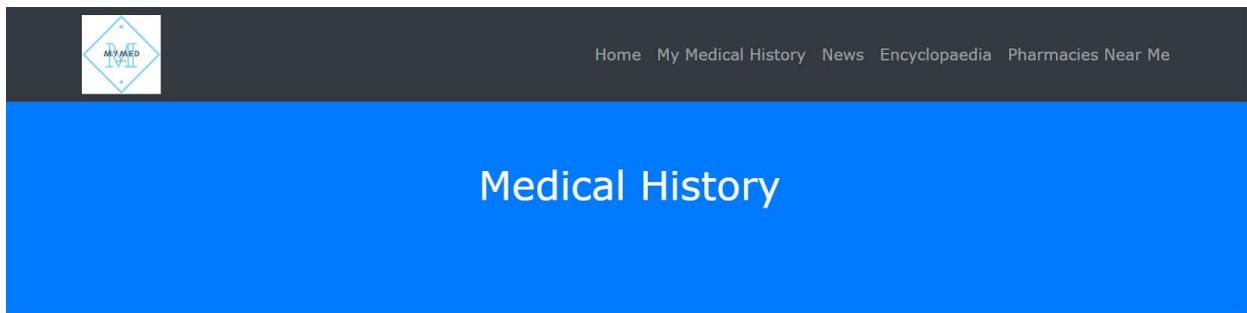
1 days ago

Nausea

General Symptom

2 days ago

US14 - As a user, I want to know the severity of my symptoms so that I know when to see a doctor.



New Symptom or Medical Condition

Add

CLASHING MEDICATION

Add

Stomach Ache

General Symptom

1 days ago

Nausea

General Symptom

2 days ago