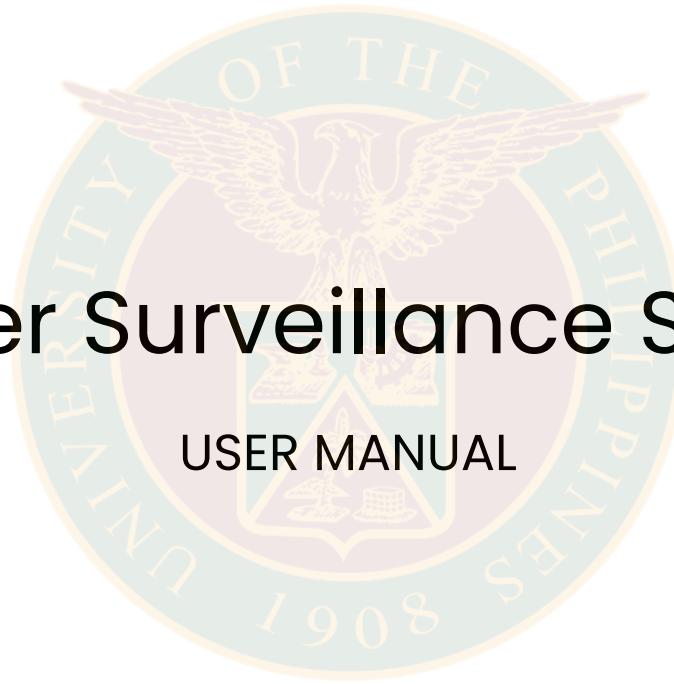


University of the Philippines Manila
College of Arts and Sciences



Cancer Surveillance System

USER MANUAL

System Developers:
Callang, Nathan Gerard
Gomez, Ron Brylle
Parinas, Currie Ezekiel
Ercia, Demi Gail Ashley

Project Managers:
Dr. Ma. Katrina Guillermo
Ms. Alanna Panes

TABLE OF CONTENTS

TABLE OF CONTENTS	2
1.0 GENERAL INFORMATION	4
1.1 System Overview	4
2.0 SYSTEM SUMMARY	5
2.1 System Configuration	5
2.2 User Access Levels	5
3.0 SETUP	7
3.1 Languages and Frameworks	7
3.2 Installation Guide	7
3.2.1 Frontend Setup (Locally)	7
3.2.2 Backend Setup (Locally)	13
4.0 USING CANCER SURVEILLANCE SYSTEM	14
4.1 Landing Page	14
4.1.1 Login Page	14
4.1.2 Static Patient Page	15
4.1.3 Static Doctor Page	16
4.1.4 Static Contact Page	17
4.1.5 Static About Page	18
4.2 Doctor Pages	19
4.2.1 Dashboard	19
4.2.1.1 Search Box	19
4.2.1.1.1 Patient Profile	20
4.2.1.1.2 Disease Profile	20
4.2.1.1.3 Treatment Profile	21
4.2.1.1.4 Schedule consultation	22

4.2.1.1.4 Consult	24
4.2.1.1.4 Message	25
4.2.2 Enroll patient	25
4.2.2.1 Temporary Password	26
4.2.3 Disease Profile	27
4.2.4 Treatment Profile	28
4.2.5 Consult	31
4.2.6 Notification	32
4.2.7 Message	33
4.3.6 Log out	33
4.3 Patient Pages	34
4.3.1 Report Symptoms	34
4.3.2 Request Documents	35
4.3.3 Submit Laboratory	36
4.3.4 Notification	37
4.3.5 Message	38
4.3.6 Log out	38
4.4 Registration Page	39
4.4 Forgot Password Page	41
4.4 Page not found	43

1.0 GENERAL INFORMATION

1.1 System Overview

The Cancer Surveillance System is a hospital-level information system designed to monitor cancer patients' treatment progress, post-treatment symptoms, and disease status, and to serve as a research database for healthcare providers. It aims to address challenges such as manual record-keeping and the loss of long-term patient data.

The Cancer Surveillance System supports two primary user roles: Doctors, and Patients. Each user type has distinct access privileges. Doctors can track patient progress, customize treatment plans, interact with patients remotely, and generate cancer research reports. Patients can receive notifications about follow-up treatments, and submit lab results.

The system features a user-friendly interface with clearly labeled buttons and intuitive navigation, ensuring that users can quickly understand and operate the platform. Key functionalities include a reminder and notification system, submission of lab results, and tracking of patient progress. It also provides access to an extensive database of cancer research and survivorship profiles.

Since the Cancer Surveillance System is primarily used for critical healthcare purposes, it requires high availability and robust performance. Updates to patient records should be reflected in real-time, and system responsiveness is expected to meet stringent requirements—showing dashboard contents in under a second. Security and data privacy are enhanced with audit trails and strict access controls.

2.0 SYSTEM SUMMARY

2.1 System Configuration

The Cancer Surveillance System is designed to be used on computers and is not yet optimized for mobile phones. It is recommended to use the system on Windows since the provided instructions are tailored for Windows systems.

A stable network connection is required to perform various functionalities of the system, such as accessing and updating the database. Data stored in the database can be accessed through any web browser, ensuring flexibility and ease of use across devices with internet connectivity.

2.2 User Access Levels

USER TYPE	USER PRIVILEGES
Doctor	<ul style="list-style-type: none">• Viewing of doctor specific patients• Viewing of patient's specific disease profile, treatment history, surgery, hormonal, radiotherapy, immunotherapy, and chemotherapy information• Viewing of date specific scheduled consults• Viewing of all submitted workup/cancer specific laboratories• Enrollment of patient• Can schedule a consultation• Can add a consultation• Can add patient disease profile, treatment history, surgery, hormonal, radiotherapy, immunotherapy, chemotherapy

	<ul style="list-style-type: none">• Can send emails to patients• Can receive emails and laboratory submission from patients
Patient	<ul style="list-style-type: none">• Can report cancer-specific symptoms• Can request cancer-specific laboratory• Can submit cancer-specific laboratories• Can send emails to doctor• Can receive emails from doctors• Can receive laboratory-specific reminder via emails

3.0 SETUP

3.1 Languages and Frameworks

Languages used:

- Frontend
 - 1. Typescript
 - 2. HTML
- Backend
 - 1. Java
 - 2. SQL

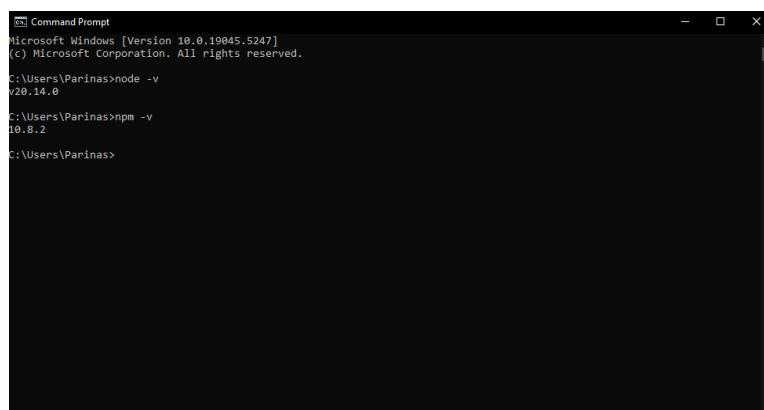
Frameworks used:

- Frontend
 - 1. NextJS
- Backend
 - 1. Spring (Java SpringBoot)
 - 2. PostgreSQL

3.2 Installation Guide

3.2.1 Frontend Setup (Locally)

1. Install Node.JS to use NextJS Framework.
 - a. Link: <https://nodejs.org/en/download>
 - b. Verify if NodeJS is installed by using "node -v" in the command prompt.



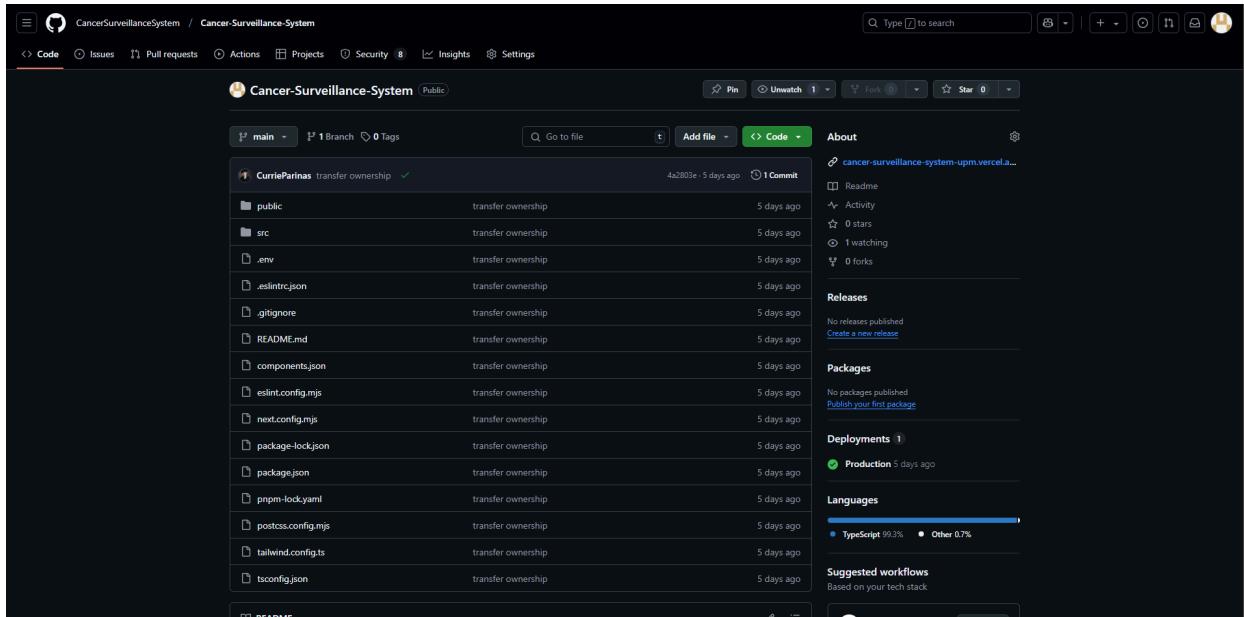
```
cmd Command Prompt
Microsoft Windows [Version 10.0.19045.5247]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Parinas>node -v
v20.14.0
C:\Users\Parinas>npm -v
10.8.2
C:\Users\Parinas>
```

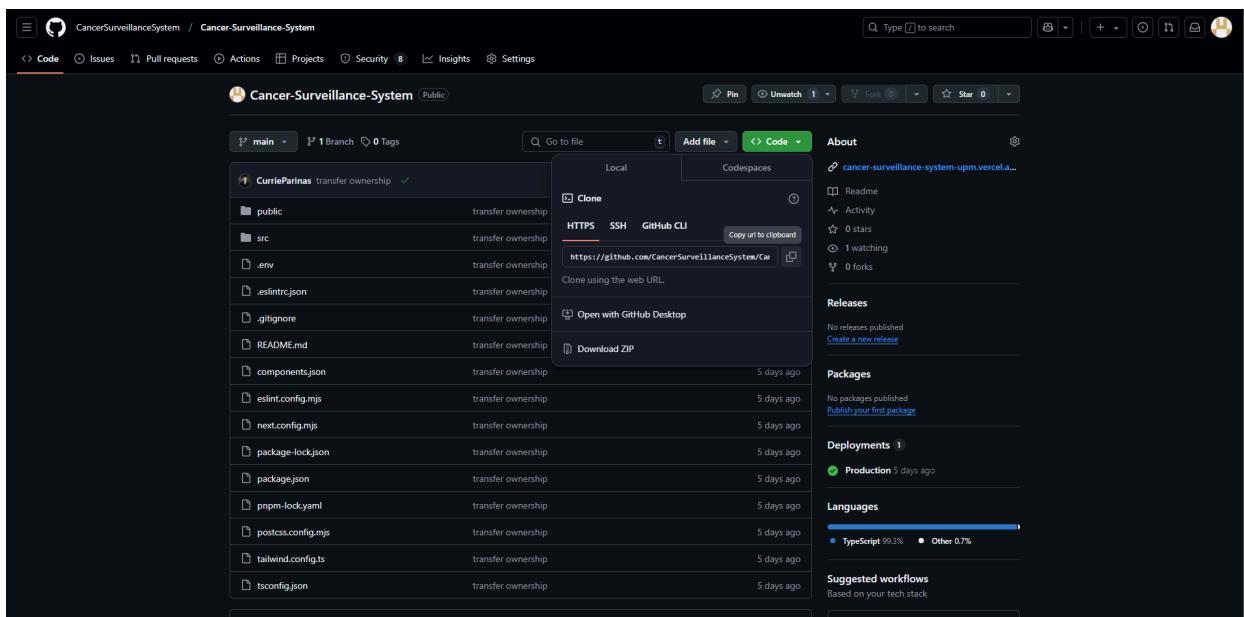
2. Install Git to download git repositories.
- a. Link: <https://git-scm.com/downloads>

3. Go to

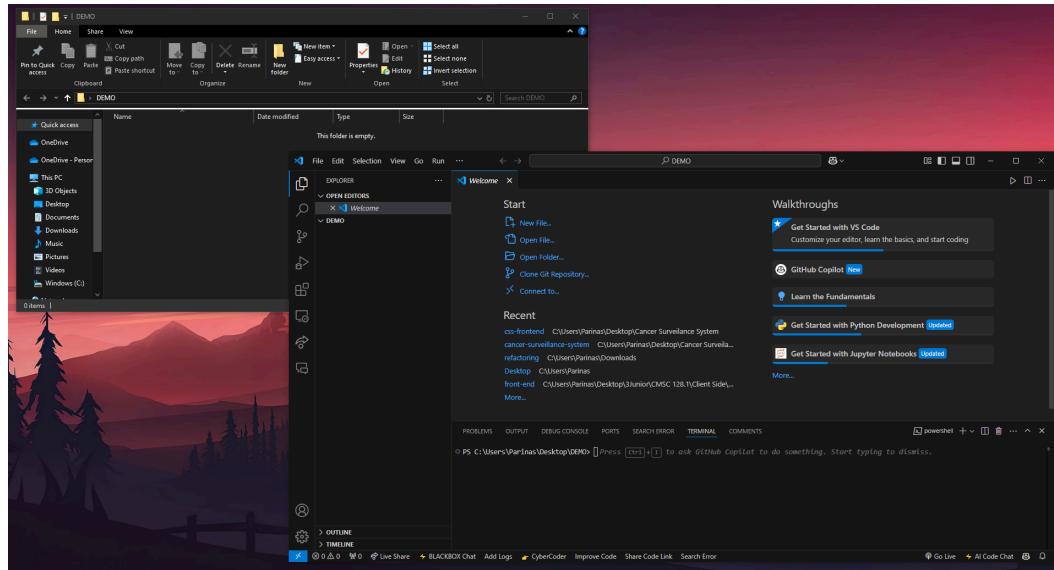
<https://github.com/CancerSurveillanceSystem/Cancer-Surveillance-System>



4. Copy the HTTPS web url of the github repository.



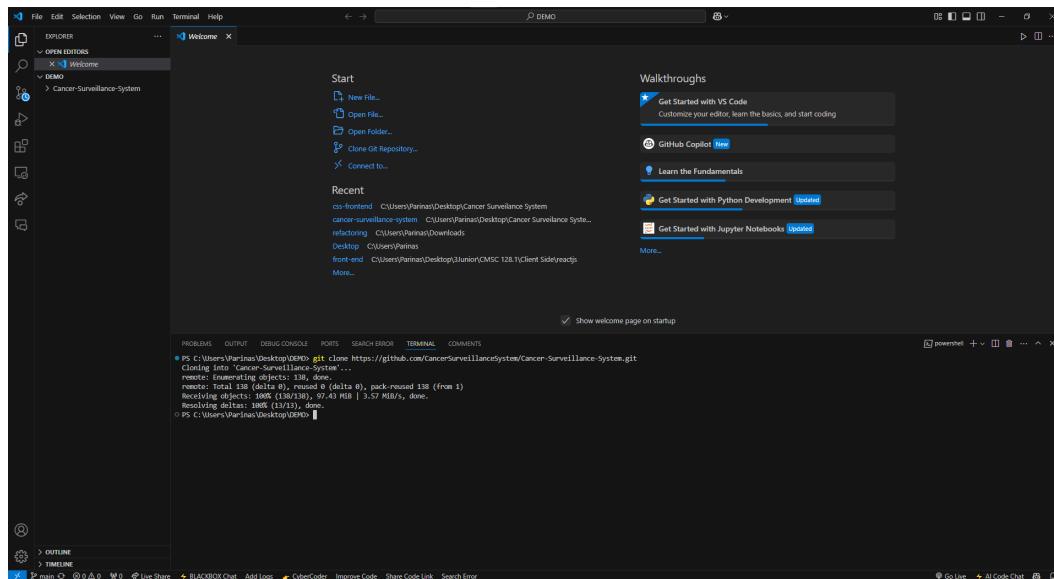
5. Create/select your desired installation folder and open your desired IDE in that folder. [Visual Studio Code is recommended]



6. Open a terminal and paste the HTTPS web url of the repo as such:

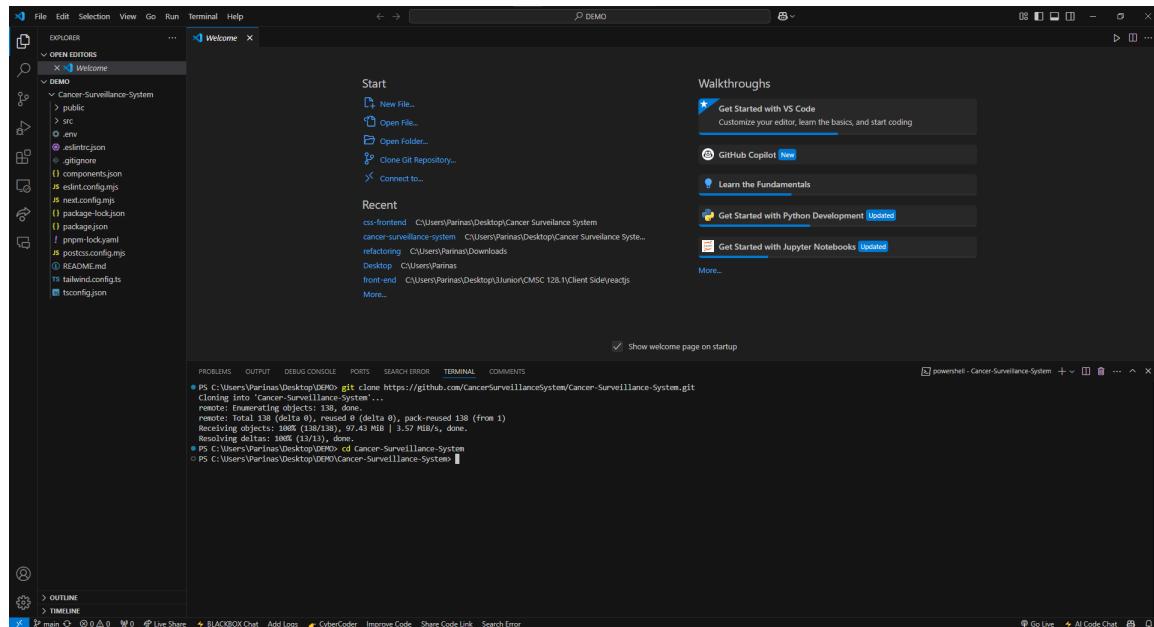
```
git clone https://github.com/CancerSurveillanceSystem/Cancer-Surveillance-System.git
```

After entering the command, you should have the repo cloned into your desired folder like this:



7. Go to the cloned repository by using the command in the terminal:

cd Cancer-Surveillance-System

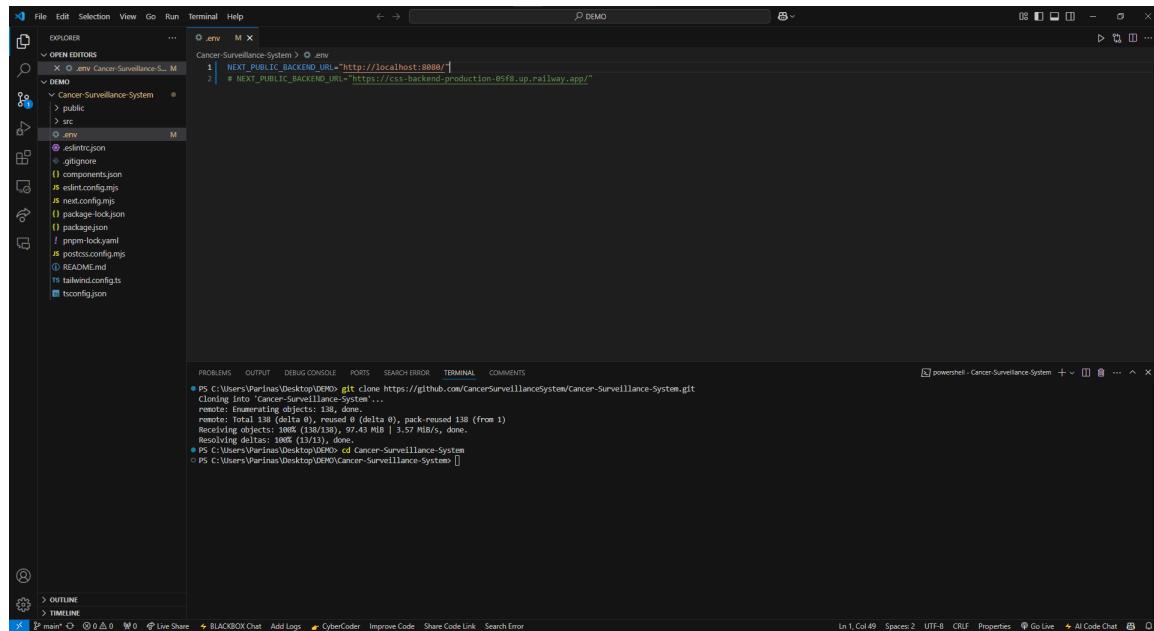


VS Code interface showing the terminal cloning the repository and the file structure in the Explorer.

```
PS C:\Users\Parinasi\Desktop\DEMO> git clone https://github.com/CancerSurveillanceSystem/Cancer-Surveillance-System.git
Cloning into 'Cancer-Surveillance-System'...
remote: Enumerating objects: 138, done.
remote: Counting objects: 100 (delta 0), pack-reused 138 (from 1)
Receiving objects: 100% (138/138), 97.43 KB | 3.57 MB/s, done.
Resolving deltas: 100% (13/13), done.
PS C:\Users\Parinasi\Desktop\DEMO> cd Cancer-Surveillance-System
PS C:\Users\Parinasi\Desktop\DEMO\>
```

8. To run the project locally, change the **.env** file located in the root directory.

Uncomment the `localhost:8080` and comment the `railway.app` url for the local backend then save the file.

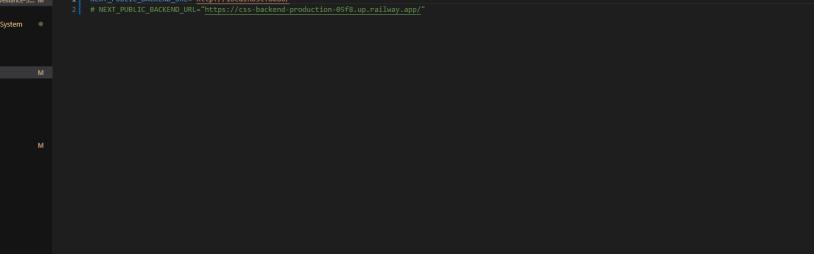


VS Code interface showing the .env file open and modified, and the terminal cloning the repository.

```
PS C:\Users\Parinasi\Desktop\DEMO> git clone https://github.com/CancerSurveillanceSystem/Cancer-Surveillance-System.git
Cloning into 'Cancer-Surveillance-System'...
remote: Enumerating objects: 138, done.
remote: Counting objects: 100 (delta 0), pack-reused 138 (from 1)
Receiving objects: 100% (138/138), 97.43 KB | 3.57 MB/s, done.
Resolving deltas: 100% (13/13), done.
PS C:\Users\Parinasi\Desktop\DEMO> cd Cancer-Surveillance-System
PS C:\Users\Parinasi\Desktop\DEMO\>
```

9. To install all the modules used, paste the following command in the terminal:

npm i



```
PS C:\Users\Varun\Desktop\OHO\Cancer-Surveillance-System> npm audit
npm notice Beginning October 4, 2021, all connections to the npm registry - including for package installation - must use TLS 1.2 or higher. You are currently using plaintext http to connect. Please visit the GitHub blog for more information: https://github.blog/2021-08-23-npm-registry-deprecating-tls-1-0-tls-1-1/
npm notice Beginning October 4, 2021, all connections to the npm registry - including for package installation - must use TLS 1.2 or higher. You are currently using plaintext http to connect. Please visit the GitHub blog for more information: https://github.blog/2021-08-23-npm-registry-deprecating-tls-1-0-tls-1-1/
npm audit [email protected]@0.6: This module is not supported, and leaks memory. Do not use. Check out lru-cache if you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated [email protected]@0.6.1: Use esnext-import-array instead
npm warn deprecated [email protected]@0.3.0: This module is no longer maintained
npm warn deprecated [email protected]@2.3: Global versions prior to v9 are no longer supported
npm warn deprecated [email protected]@0.3: Use eslint-object-schema instead

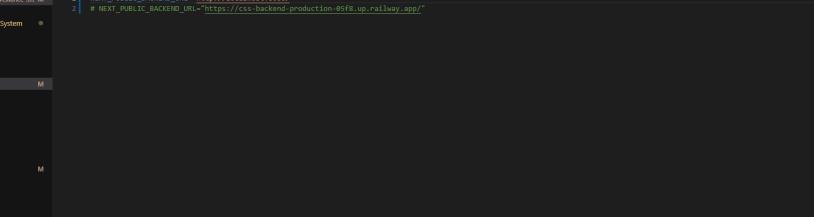
added 403 packages in 49s

141 packages are looking for funding
  run `npm fund` for details
npm notice
npm notice New major version of npm available! 10.2.0 -> 10.0.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.0.0
npm notice To update run: npm install -g npm@10.0.0
npm notice
npm notice
PS C:\Users\Varun\Desktop\OHO\Cancer-Surveillance-System>
```

10. Once the modules are installed, use

npm run dev

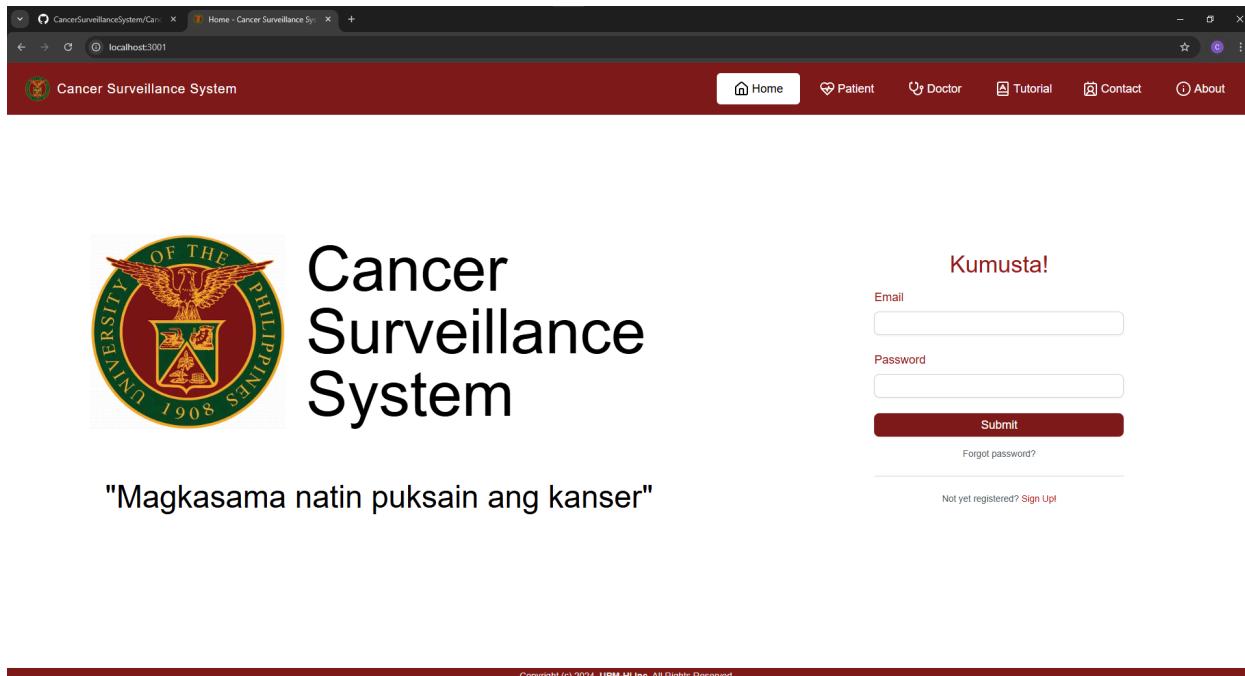
to run the project locally. It will generate a localhost link that you can open via the web.



The screenshot shows the VS Code interface with the following details:

- File Explorer:** Shows the project structure for "Cancer-Surveillance-System". The `env` folder is expanded, showing files like `eslintrc.json`, `gitignore`, `components.json`, `eslintrc.json`, `next-env.dts`, `next-env.dts.d.ts`, `package-lock.json`, `package.json`, `prepm-lock.yaml`, `postcss.config.mjs`, `README.md`, `tailwind.config.ts`, and `tsconfig.json`.
- Terminal:** The terminal window is titled "DEMO" and shows the command `npm run dev` being run. The output indicates that port 3000 is in use and is being redirected to port 3001. It also shows the "Starting..." message.
- Bottom Status Bar:** Shows the file path "C:\Users\Varinu\Desktop\DEMO\Cancer-Surveillance-System", the terminal tab is active, and other status indicators like "Line Separator", "BLACKBOX Chat", "Add Log", "CyberCoder", "Improve Code", "Share Code Link", and "Search Error".

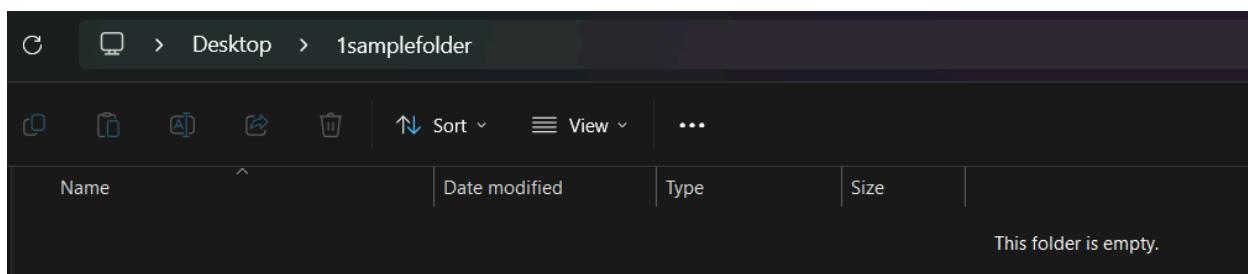
11. View the generated link.



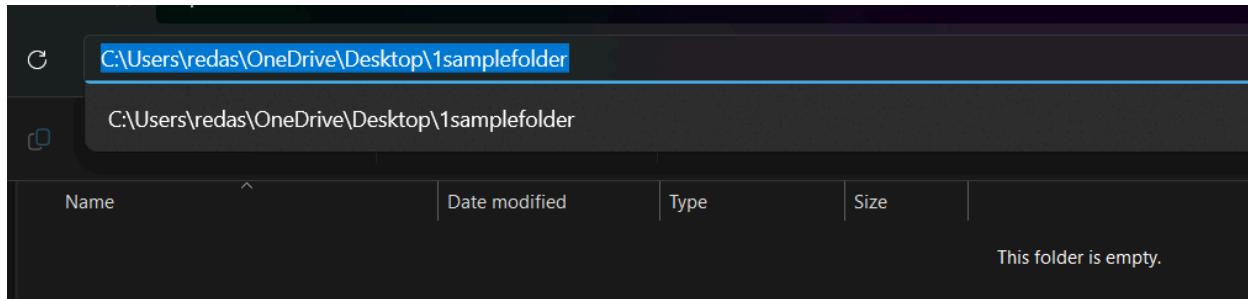
3.2.2 Backend Setup (Locally)

3.2.2.1 Spring Setup

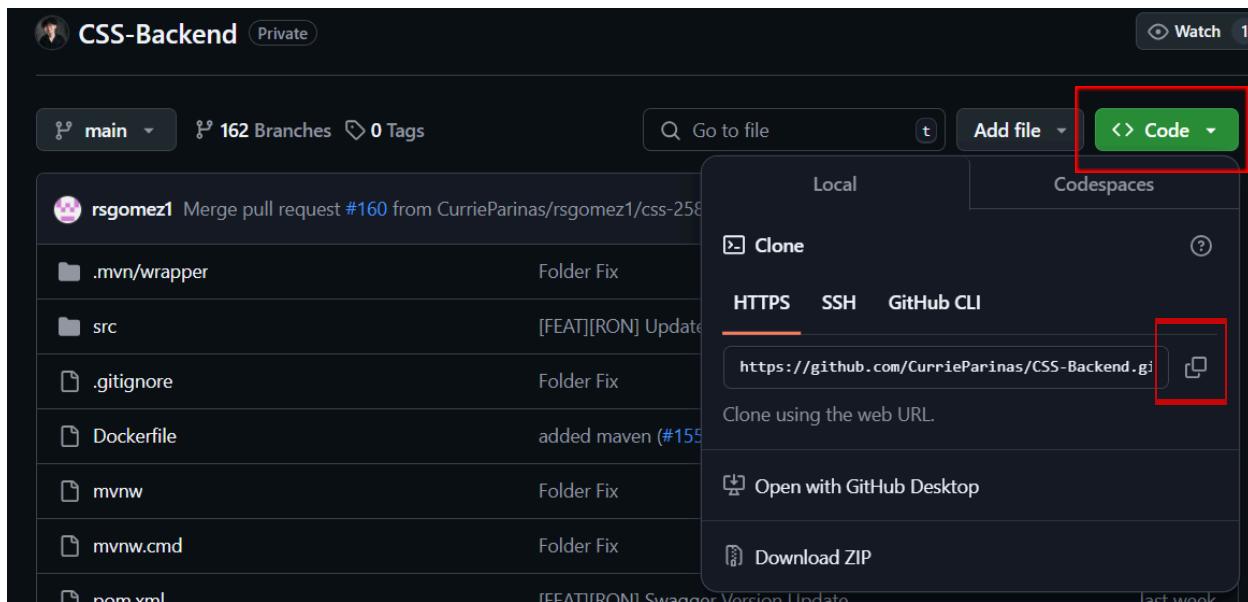
1. Go to the folder where you want to store the backend. In this example, I will be using the folder "1samplefolder"



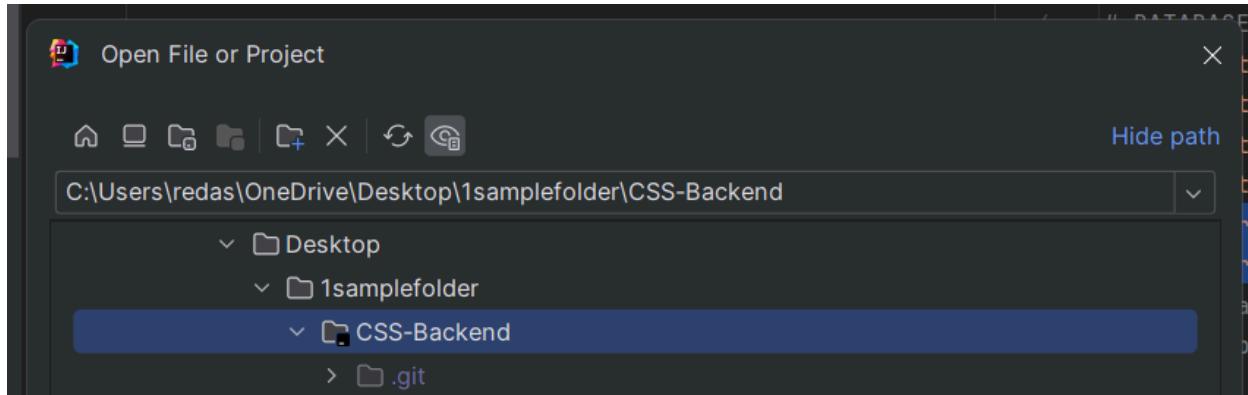
2. Click on the search bar at the top. The path of your folder should be highlighted in blue upon doing this.



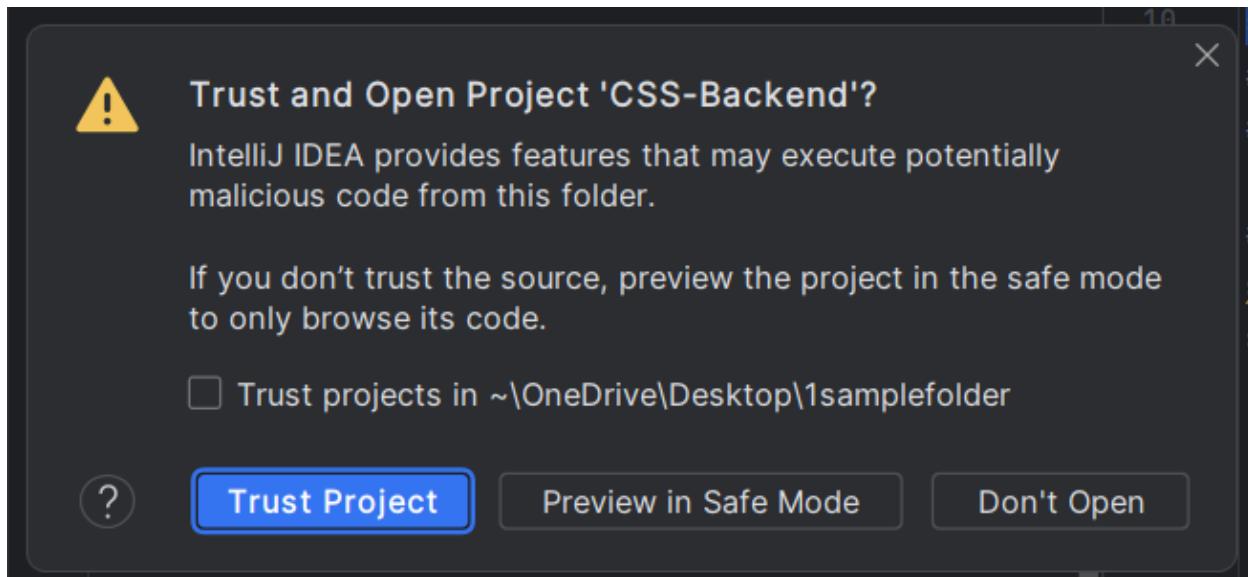
3. Type "cmd" then press enter. The command prompt should pop up.
4. Go to the github repository of the backend, which is in this link as of writing this guide: <https://github.com/CancerSurveillanceSystem/CSS-Backend>
5. Click on the green "Clone" button, and under "HTTPS", copy the link.



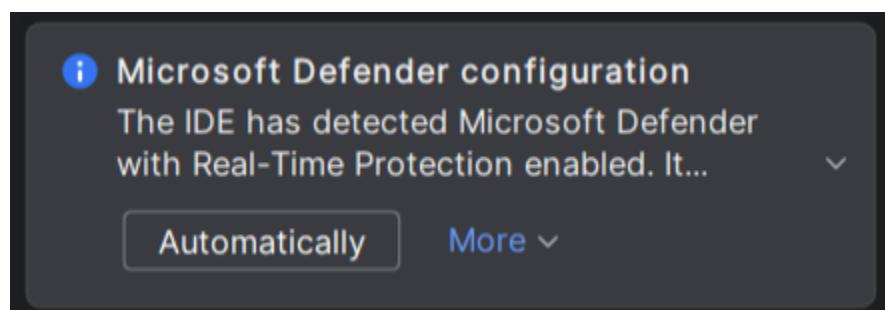
6. Go back to your command prompt window and type "git clone " then paste the link you just copied.
7. Wait for a bit as the repository is being cloned.
8. Open IntelliJ or any Java IDE of your choice and open the cloned backend folder
9. If you are using IntelliJ, you will know it's the correct folder if it has the black square at the bottom left



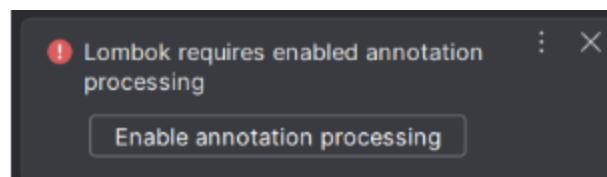
10. If a prompt asks you to trust the project, click Trust Project



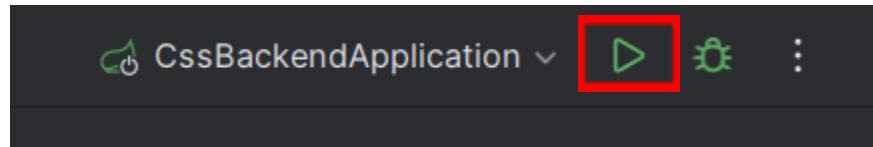
11. If the following popup shows up, click it (optional, it may not appear for you depending on your antivirus software).



12. This popup SHOULD show up. Click enable annotation processing when it does.



- If it doesn't show up on its own, try running the application first by pressing the play button at the top.



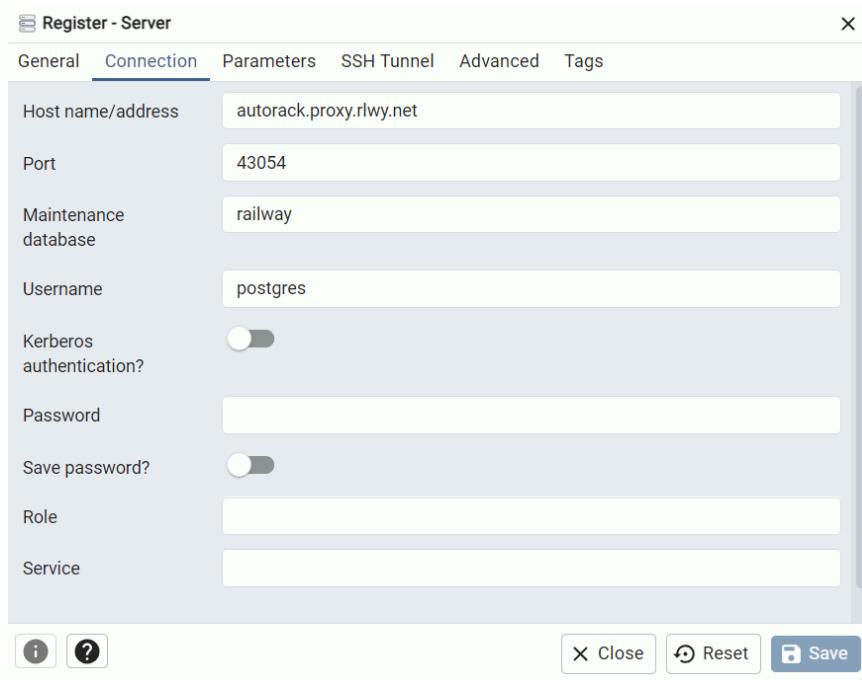
13. Run the program. If the setup has been done correctly, then it should say "Started CssBackendApplication"

```
2024-12-29T23:03:27.627+08:00 INFO 19068 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2024-12-29T23:03:29.576+08:00 INFO 19068 --- [ restartedMain] o.s.d.j.r.query.QueryEnhancerFactory : Hibernate is in classpath; If applicable, HQL parser will be used.
2024-12-29T23:03:31.846+08:00 WARN 19068 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database query results will be cached until the end of the entire request.
2024-12-29T23:03:32.550+08:00 INFO 19068 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2024-12-29T23:03:32.640+08:00 INFO 19068 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8080 (http) with context path '/css'
2024-12-29T23:03:32.657+08:00 INFO 19068 --- [ restartedMain] c.cssbackend.CssBackendApplication : Started CssBackendApplication in 157.801 seconds (process running for
```

14. Additional notes: The required minimum Java version is version 23.0 and the required minimum Maven version is 3.3.2.

3.2.2.2 Database Setup

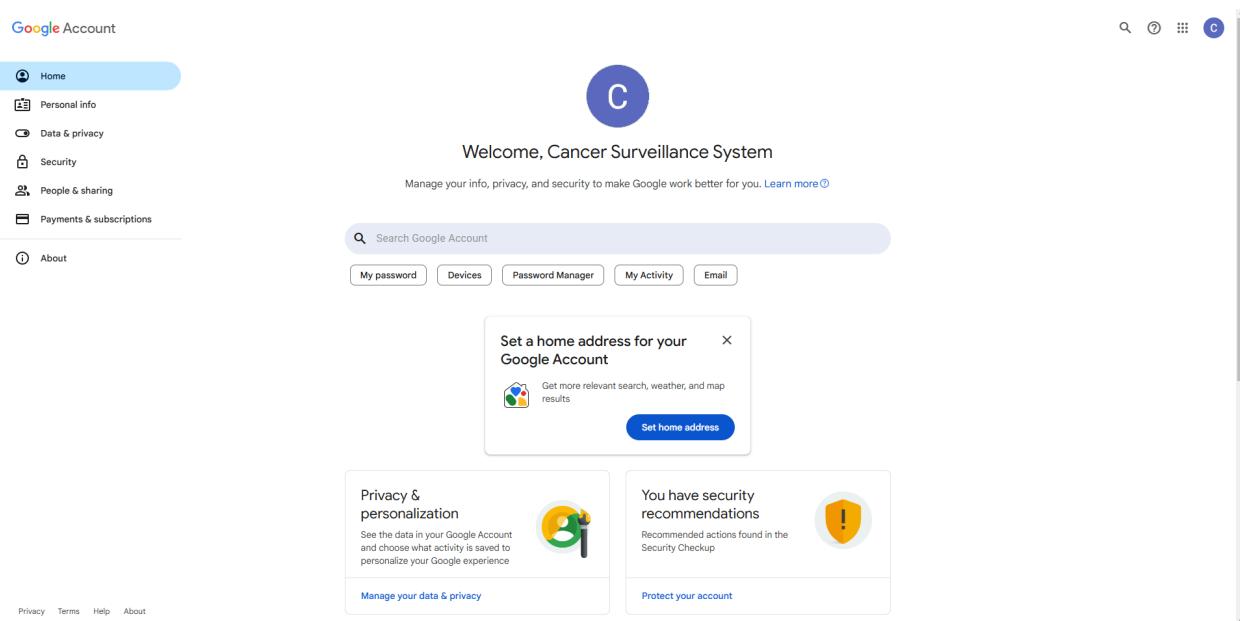
1. Install PostgreSQL.
 - a. Link: <https://www.postgresql.org/download/>
 - b. Use 'postgres' as the username and any secure password that you want.
2. Open pgAdmin 4 and login through the username and password that you set during the installation process.
3. On the left side of the window, right-click on Servers > Register > Server. Set 'CSSDB' as the name of the server and use the following connection settings. For the server password, please use '**ckGoQEXQhSJSLZFYKj jgWKaGN0yntZKD**'.



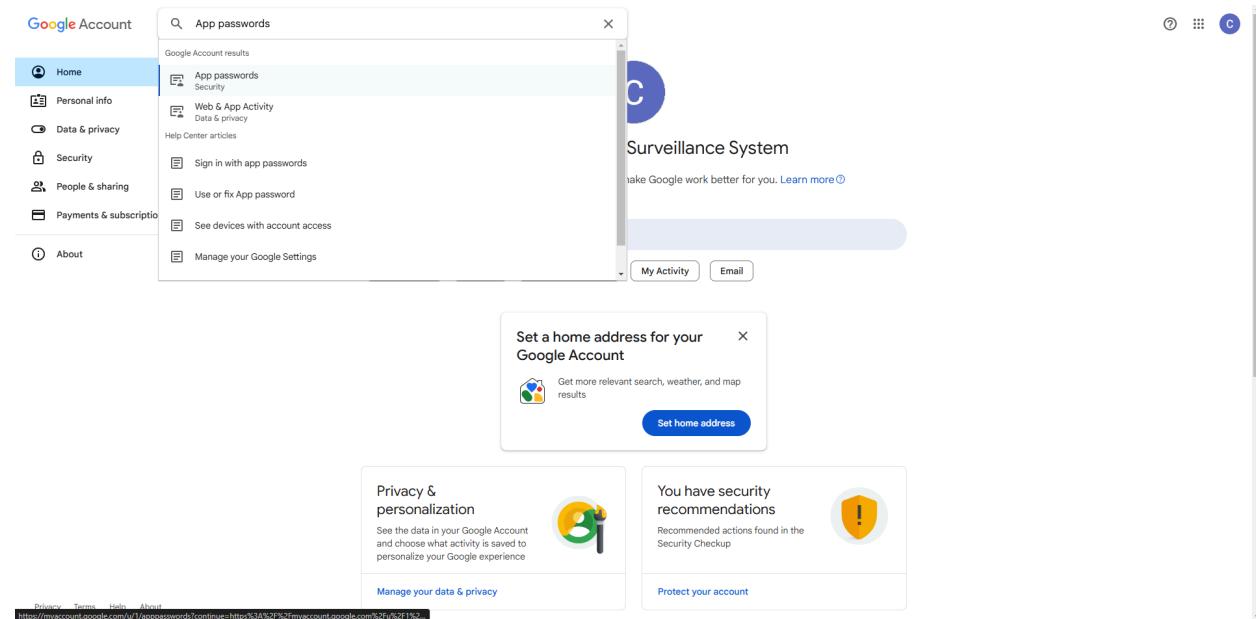
3.2.2.3 Email Setup

1. Go to google account of CSS:

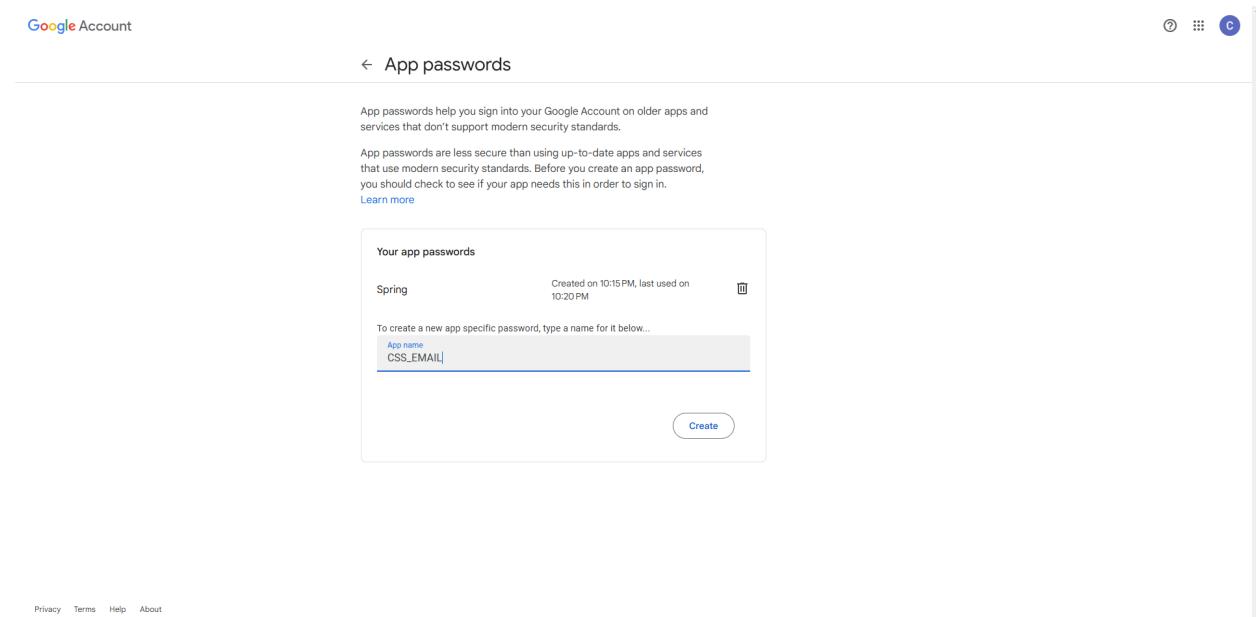
https://myaccount.google.com/u/1/?utm_source=OGB&utm_medium=app



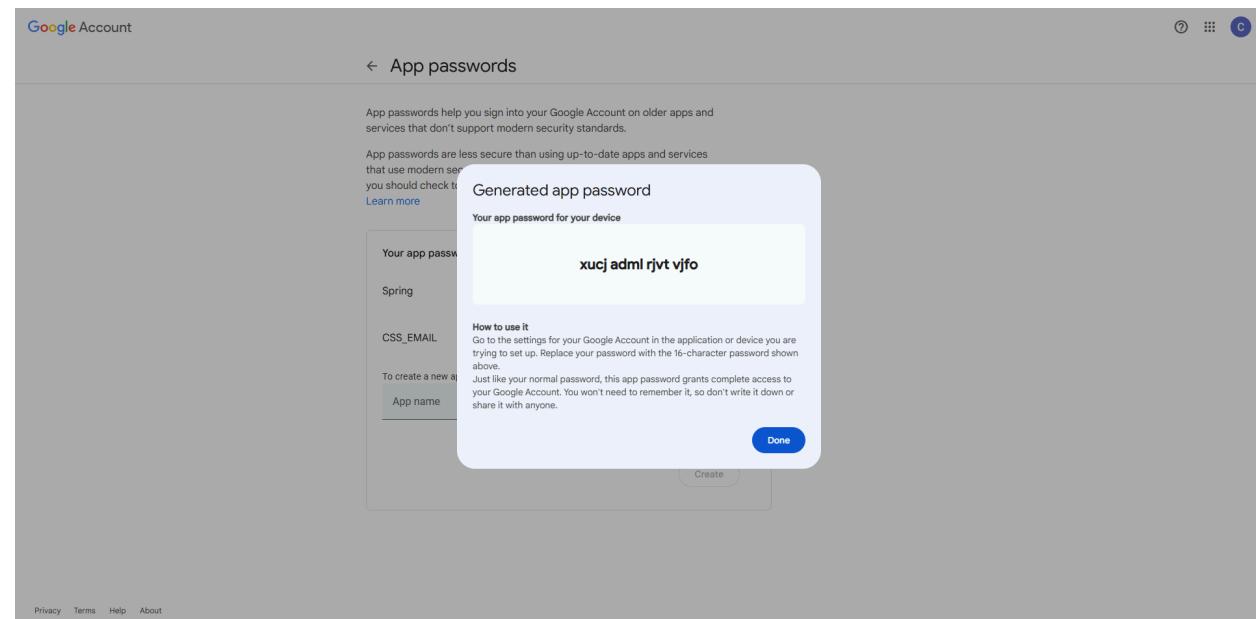
2. Search by clicking the search icon in the top right corner, and put "App passwords"



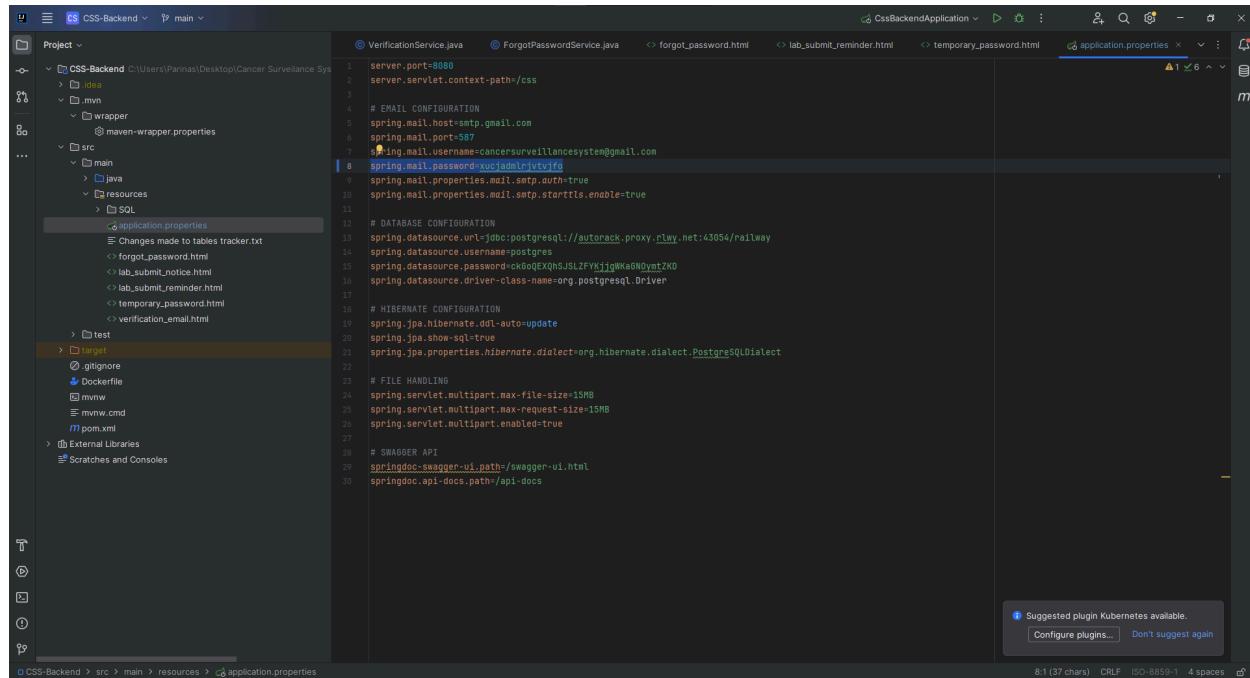
3. After clicking, it should redirect you to the app passwords and will ask you to create a new app name for the password that will be generated. Please choose anything, preferably CSS related.



4. Once created by clicking the create button, you will be prompted with the app password.



5. Use the generated app password, without spaces, in the application.properties as follows:



```

1 server.port=8080
2 server.servlet.context-path=/css
3
4 # EMAIL CONFIGURATION
5 spring.mail.host=smtp.gmail.com
6 spring.mail.port=587
7 spring.mail.username=cancersurveillance@gmail.com
8 spring.mail.password=xcJbamttrVivf1d
9 spring.mail.properties.mail.smtp.auth=true
10 spring.mail.properties.mail.smtp.starttls.enable=true
11
12 # DATABASE CONFIGURATION
13 spring.datasource.url=jdbc:postgresql://autotack.proxy.rtwy.net:4305/railway
14 spring.datasource.username=postgres
15 spring.datasource.password=c60oQEXQh5JSLZP7YKijgWKA6N0yntZKD
16 spring.datasource.driver-class-name=org.postgresql.Driver
17
18 # HIBERNATE CONFIGURATION
19 spring.jpa.hibernate.ddl-auto=update
20 spring.jpa.show-sql=true
21 spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.PostgreSQLDialect
22
23 # FILE HANDLING
24 spring.servlet.multipart.max-file-size=15MB
25 spring.servlet.multipart.max-request-size=15MB
26 spring.servlet.multipart.enabled=true
27
28 # SWAGGER API
29 springdoc-swagger-ui.path=/swagger-ui.html
30 springdoc.api-docs.path=/api-docs

```

The application.properties file is located at `CSS-Backend/src/main/resources/application.properties`. A tooltip in the bottom right corner suggests a Kubernetes plugin.

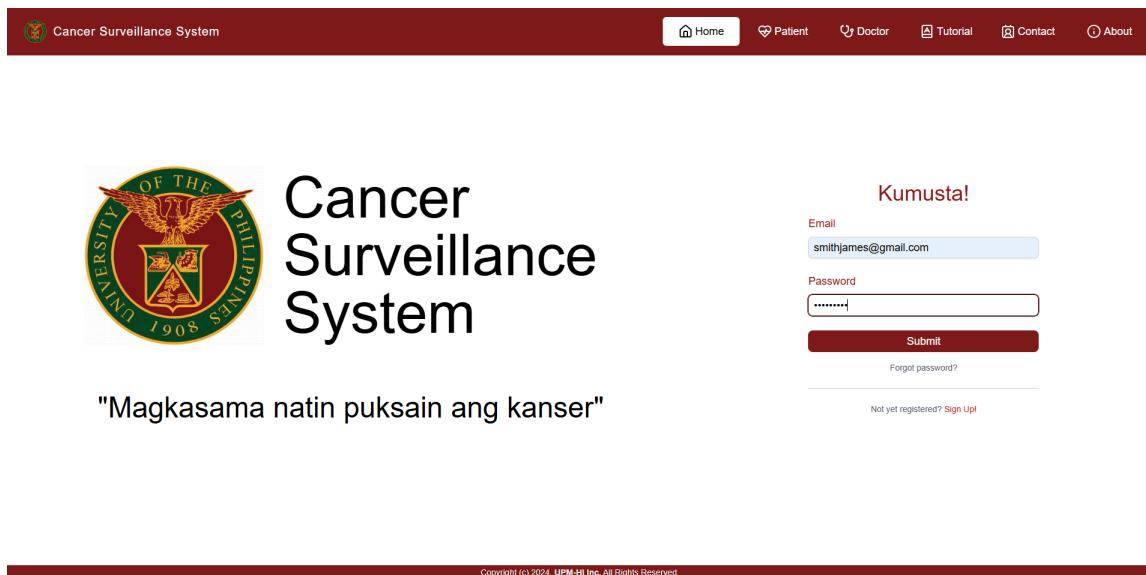
Note: application.properties file is under `CSS-Backend\src\main\resources`

4.0 USING CANCER SURVEILLANCE SYSTEM

4.1 Landing Page

4.1.1 Login Page

1. You may use your registered credentials in the input boxes provided.



The screenshot shows the login page of the Cancer Surveillance System. At the top, there is a navigation bar with links for Home, Patient, Doctor, Tutorial, Contact, and About. The main content area features the University of the Philippines logo on the left, the text "Cancer Surveillance System" in large bold letters in the center, and a login form on the right. The login form includes fields for "Email" (containing "smithjames@gmail.com") and "Password" (containing a redacted string), a "Submit" button, and a "Forgot password?" link. Below the logo, the tagline "Magkasama natin puksain ang kanser" is displayed. At the bottom of the page, there is a copyright notice: "Copyright (c) 2024 UPM-HI Inc. All Rights Reserved".

4.1.2 Static Patient Page



Why choose CSS?

We are patient-centered

Choose the Cancer Surveillance System (CSS) for a smarter, more supportive approach to your healthcare. Our system brings everything you need into one easy-to-use application, making it simple to stay on top of your treatment and connect with your healthcare team. Experience a streamlined, personalized care journey that puts you at the center of your health management.

What CSS offers?

Seamless cancer care experience

The CSS enables patients or their caregivers to:



Be notified

about follow-up treatments and laboratory workups via email and in-app alerts



Submit

laboratory workups related to the treatment plan



Track

treatment plan history and progress



Interact

with healthcare providers remotely



Access

support materials related to CSS and cancer care

Sa CSS, **katuwang** mo ang iyong doktor

Interested? Learn more.

[How to use CSS](#) [Why Patients Use CSS](#)

4.1.3 Static Doctor Page

Why choose CSS?

Efficiently manage patients

Choose our system to elevate your practice with a comprehensive application that enhances patient care and streamlines your workflow. Benefit from personalizing care, seamless remote interactions, and precise reporting to optimize treatment outcomes and support your clinical decisions effectively.

What CSS offers?

Streamlined, effective cancer care

The CSS enables healthcare providers to:

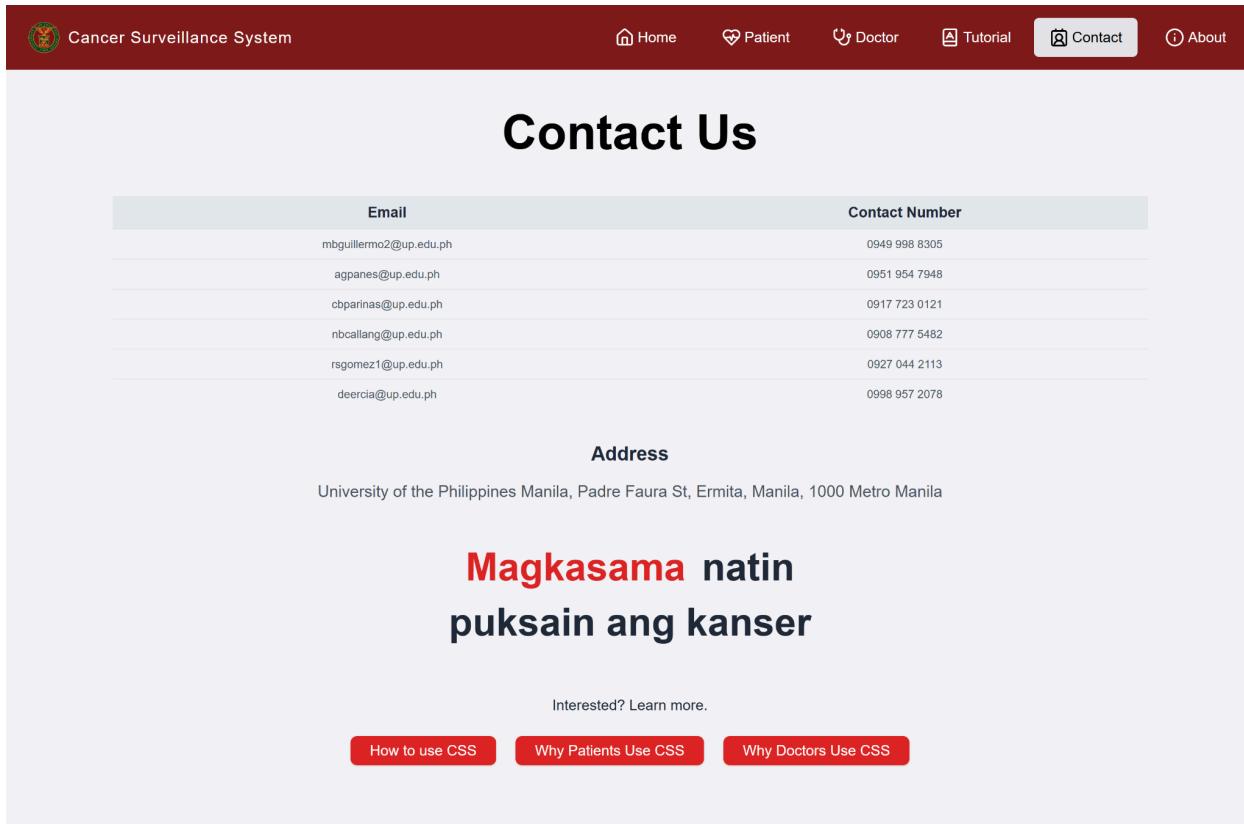
- Monitor & Follow up** (Icon: Checkmark in circle)
- Create** (Icon: Checkmark in circle)
- Interact** (Icon: Checkmark in circle)
- Produce** (Icon: Checkmark in circle)
- Share** (Icon: Checkmark in circle)

Sa CSS, **supportado** ang nagbibigay alalay

Interested? Learn more.

[How to use CSS](#) [Why Doctors Use CSS](#)

4.1.4 Static Contact Page



The screenshot shows the 'Contact Us' page of the Cancer Surveillance System. The page has a dark red header with the system's logo and name. Below the header is a table with two columns: 'Email' and 'Contact Number'. The table lists several email addresses and their corresponding contact numbers. Below the table, the address of the University of the Philippines Manila is provided. A red banner at the bottom features the text 'Magkasama natin puksain ang kanser'. At the very bottom, there are three red buttons with white text: 'How to use CSS', 'Why Patients Use CSS', and 'Why Doctors Use CSS'.

Email	Contact Number
mbguillermo2@up.edu.ph	0949 998 8305
agpanes@up.edu.ph	0951 954 7948
cbparinas@up.edu.ph	0917 723 0121
nbcallang@up.edu.ph	0908 777 5482
rsgomez1@up.edu.ph	0927 044 2113
deercia@up.edu.ph	0998 957 2078

Address
University of the Philippines Manila, Padre Faura St, Ermita, Manila, 1000 Metro Manila

**Magkasama natin
puksain ang kanser**

Interested? Learn more.

How to use CSS Why Patients Use CSS Why Doctors Use CSS

4.1.5 Static About Page


Cancer Surveillance System

[Home](#)
 [Patient](#)
 [Doctor](#)
 [Tutorial](#)
 [Contact](#)
 [About](#)

About Cancer Surveillance System



Why It Started?

For System Analysis and Design for Health

MS in Health Informatics students formulated the Cancer Surveillance System (CSS) as a major requirement for the course HI 210 (System Analysis and Design for Health), and developed this system with undergraduate Computer Science students of the University of the Philippines Manila. Prior to CSS, there was a lack of an integrated information system capable of comprehensively monitoring and supporting treatment progress and completion, and supports cancer research

Objectives

To Transform Cancer Care

The Cancer Surveillance System (CSS) is designed to optimize cancer care through comprehensive tracking and reporting. It enables precise monitoring of patient progress, post-treatment symptoms, and laboratory results while facilitating easy communication between patients and doctors. The system streamlines laboratory request management, automates reminders and notifications, and supports patient engagement through curated educational materials and online support. With enhanced security, multilingual options, and integrated research databases, CSS ensures a seamless, efficient, and secure healthcare experience for both patients and healthcare providers.

Meet the Team

The CSS Team

A collaboration between MS in Health Informatics and BS in Computer Science students from the University of the Philippines Manila.



Dr. Ma. Katrina Guillermo
Project Leader, System Analyst



Alanna Marie Panes
System Analyst



Dr. Sheila Magboo
Adviser



Currie Exekiel Parinas
Front-end Developer



Ron Brylle Gomez
Back-end Developer



Nathan Gerard Callang
Back-end Developer



Demi Gail Ashley Ercia
Front-end Developer

Interested? Learn more.

[How to use CSS](#)
[Why Patients Use CSS](#)
[Why Doctors Use CSS](#)

4.2 Doctor Pages

4.2.1 Dashboard

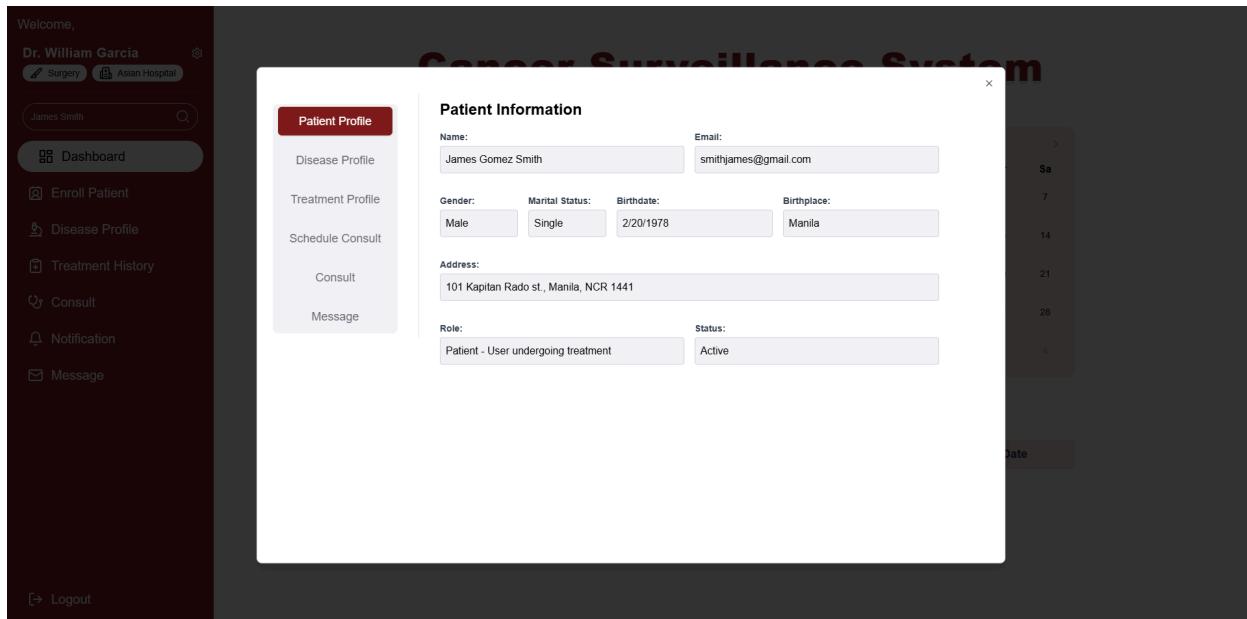
This will be the view of the doctor once they logged in.

4.2.1.1 Search Box

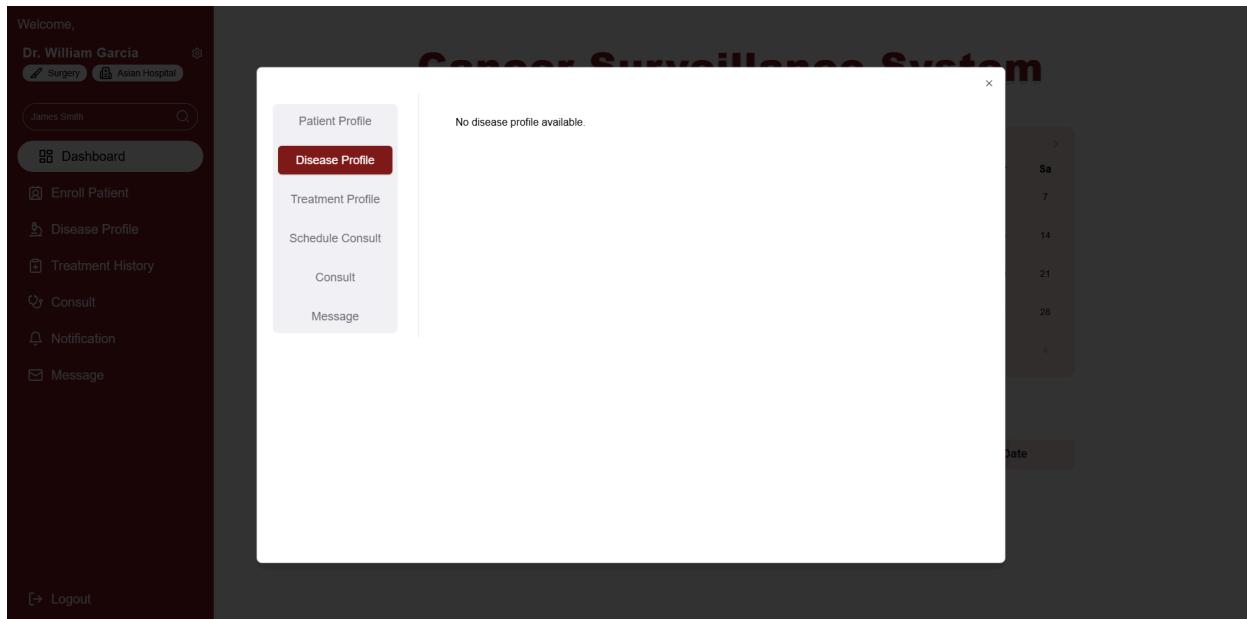
Doctors can search any patient that they have enrolled in the system.

Once they have selected the patient and click the search icon in the search box, they will be able to view the patient details as shown:

4.2.1.1.1 Patient Profile

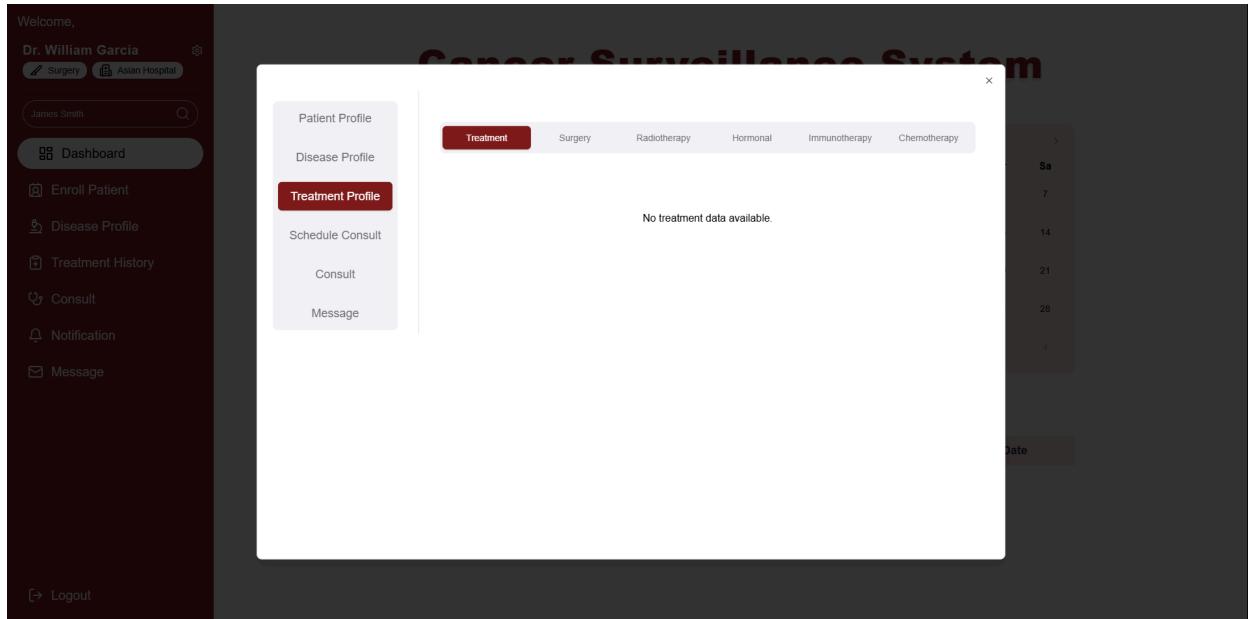


4.2.1.1.2 Disease Profile



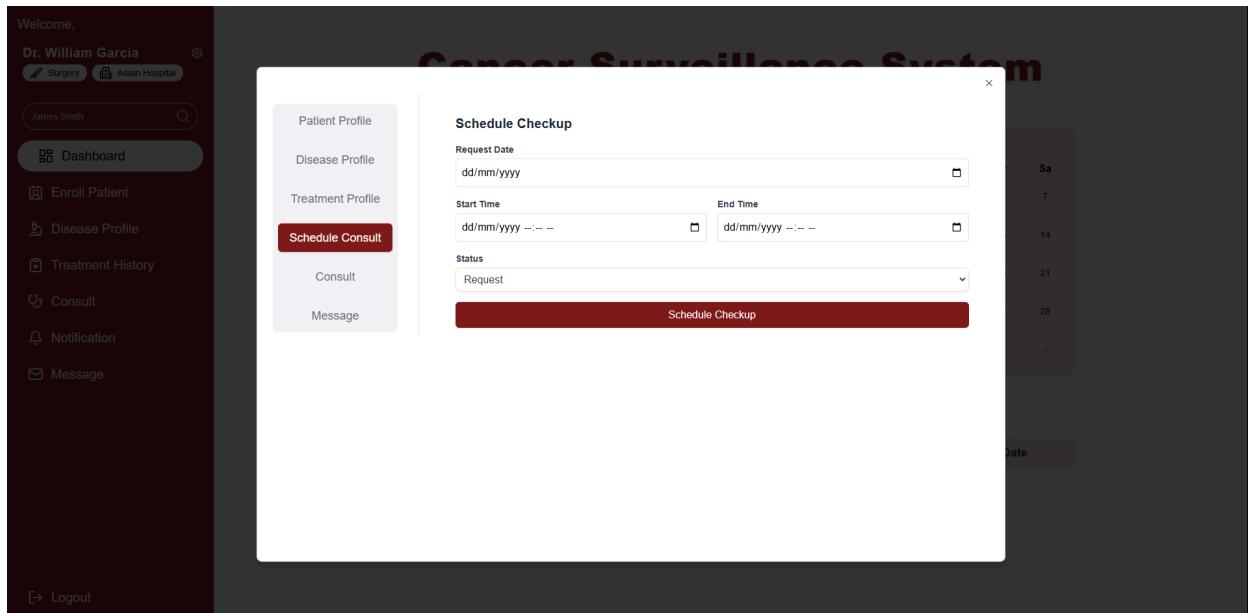
4.2.1.1.3 Treatment Profile

Doctors can view the patient Treatment, Surgery, Radiotherapy, Hormonal, Immunotherapy, and Chemotherapy details.

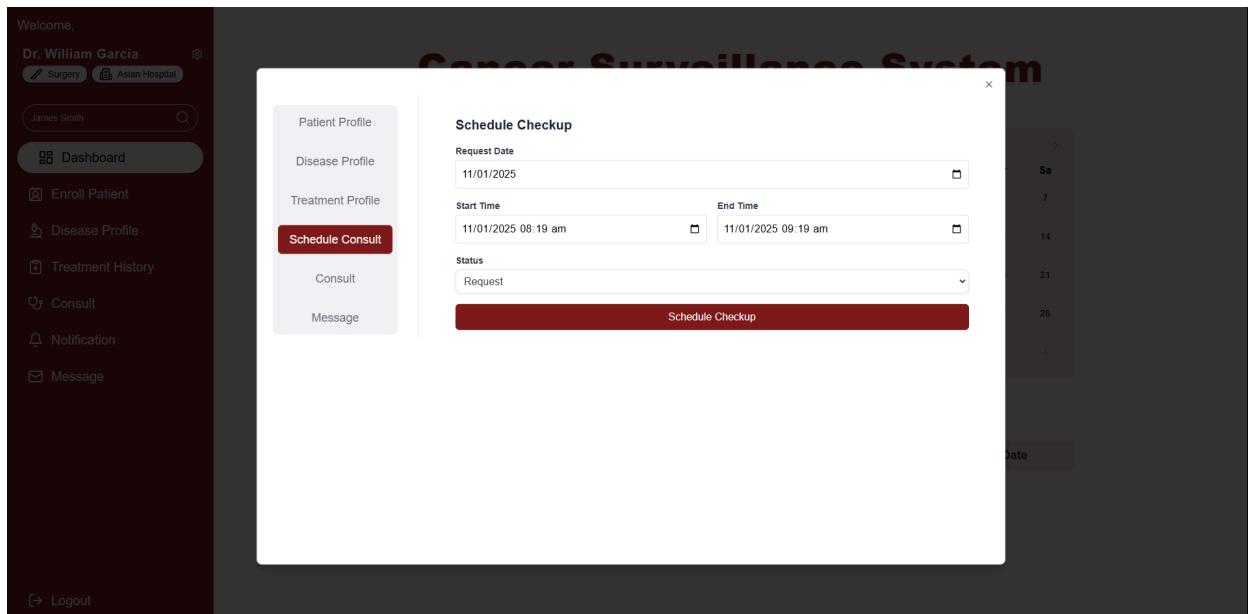


4.2.1.1.4 Schedule consultation

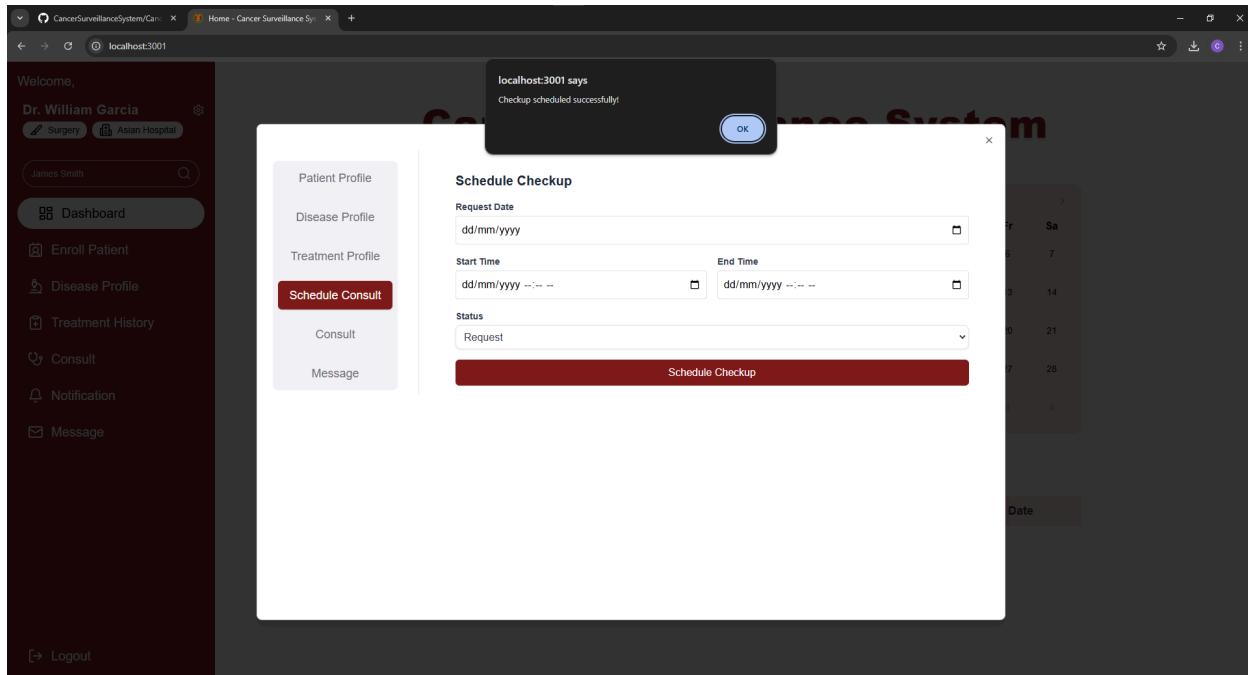
Doctors will be able to schedule a consultation for this specific/selected patient.



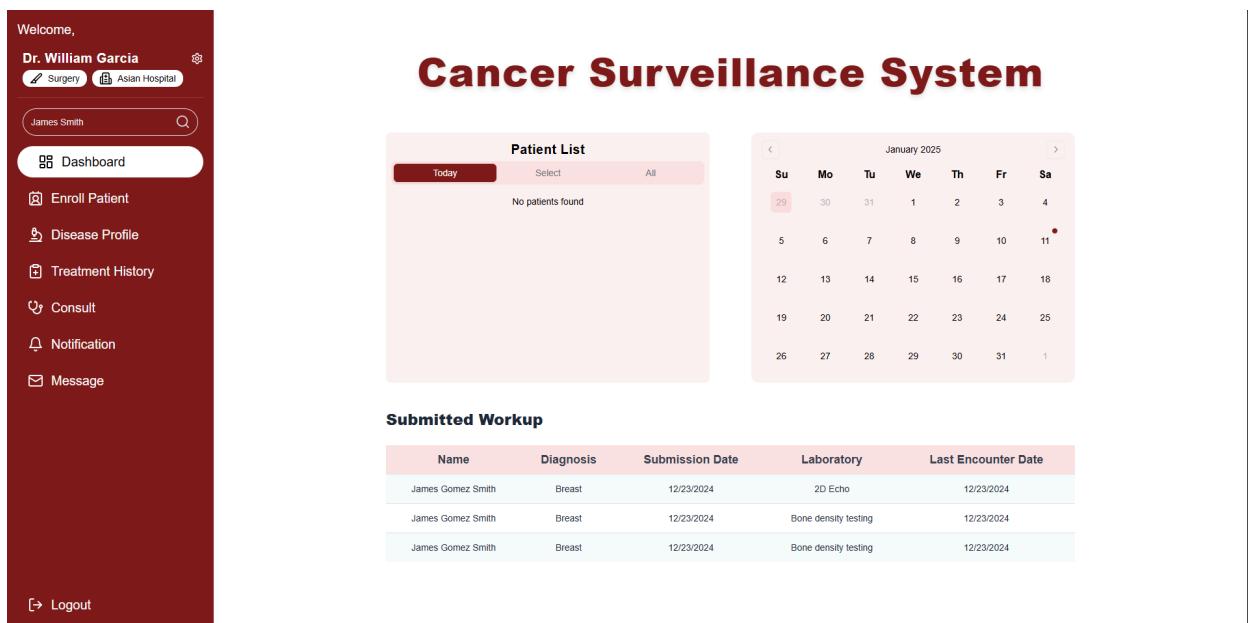
Doctor may select a specific date and time duration of the consultation as shown:



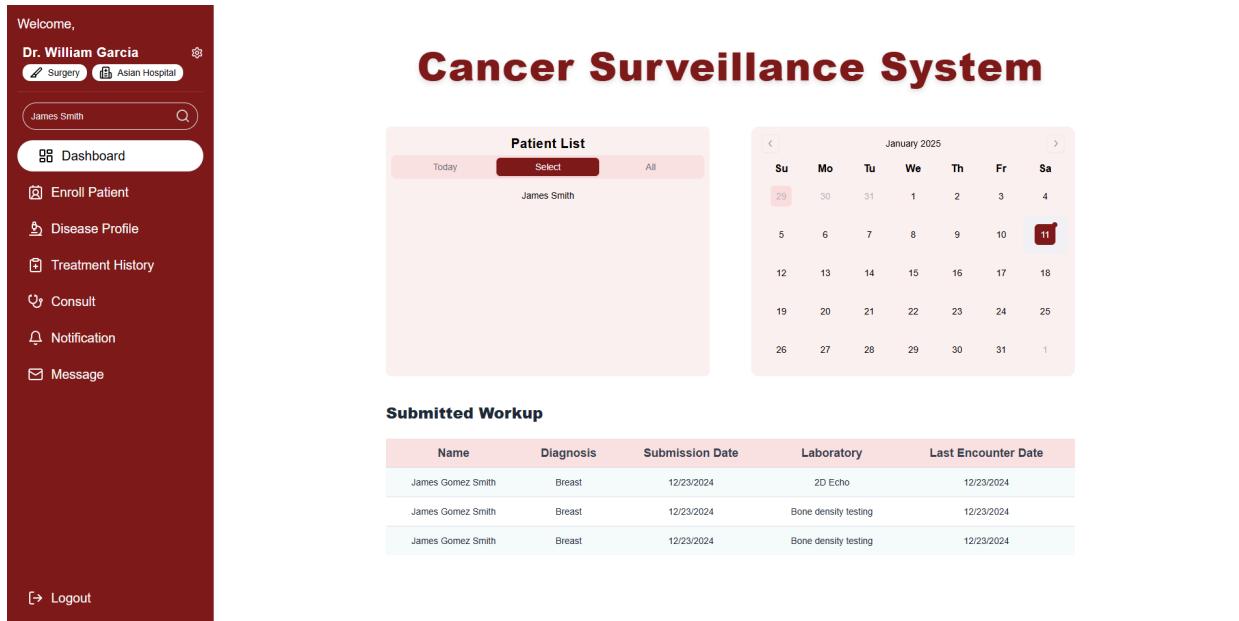
Once scheduled, a prompt should say that the scheduled consultation was successful:



If we check the dashboard again, the calendar should have a dot for the scheduled date.



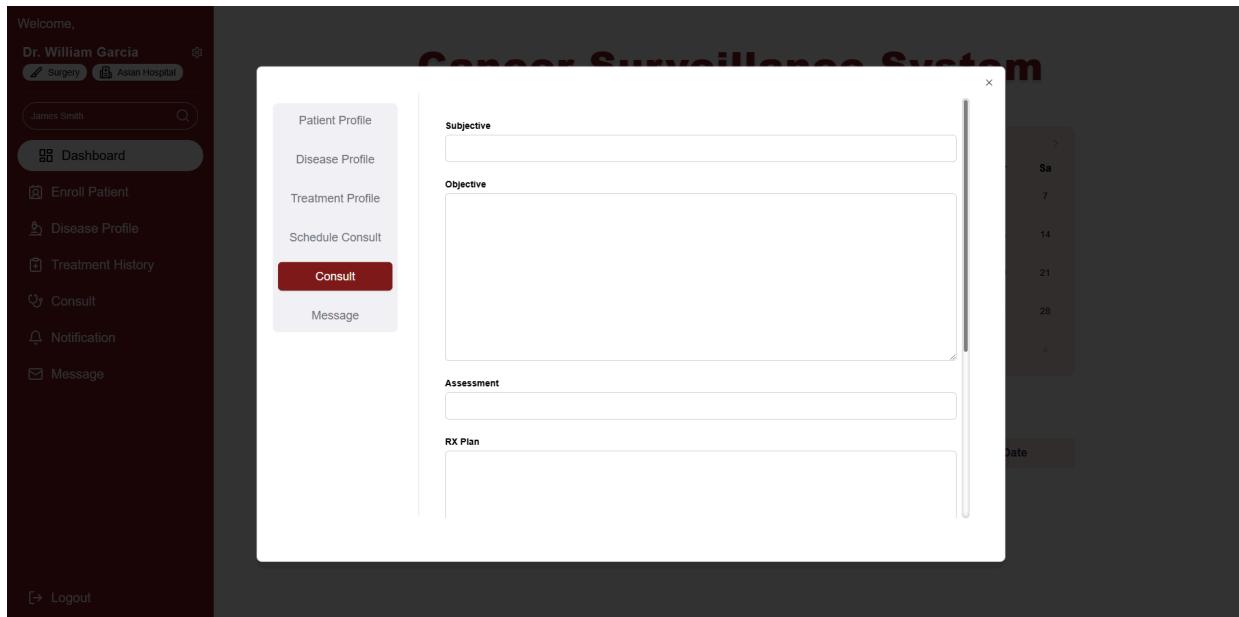
If the date is selected the “select” tab should show the scheduled patients for consultation for that date.



The screenshot shows the Cancer Surveillance System dashboard. On the left, a sidebar for Dr. William Garcia lists 'Surgery' and 'Asian Hospital' as specialties. The main area features a large title 'Cancer Surveillance System'. Below it, a 'Patient List' table shows a single entry: 'James Smith' under the 'Select' tab. To the right is a calendar for 'January 2025' with the 11th highlighted in red. At the bottom, a 'Submitted Workup' table lists three entries for 'James Gomez Smith' with 'Breast' as the diagnosis and '12/23/2024' as the submission date.

4.2.1.1.4 Consult

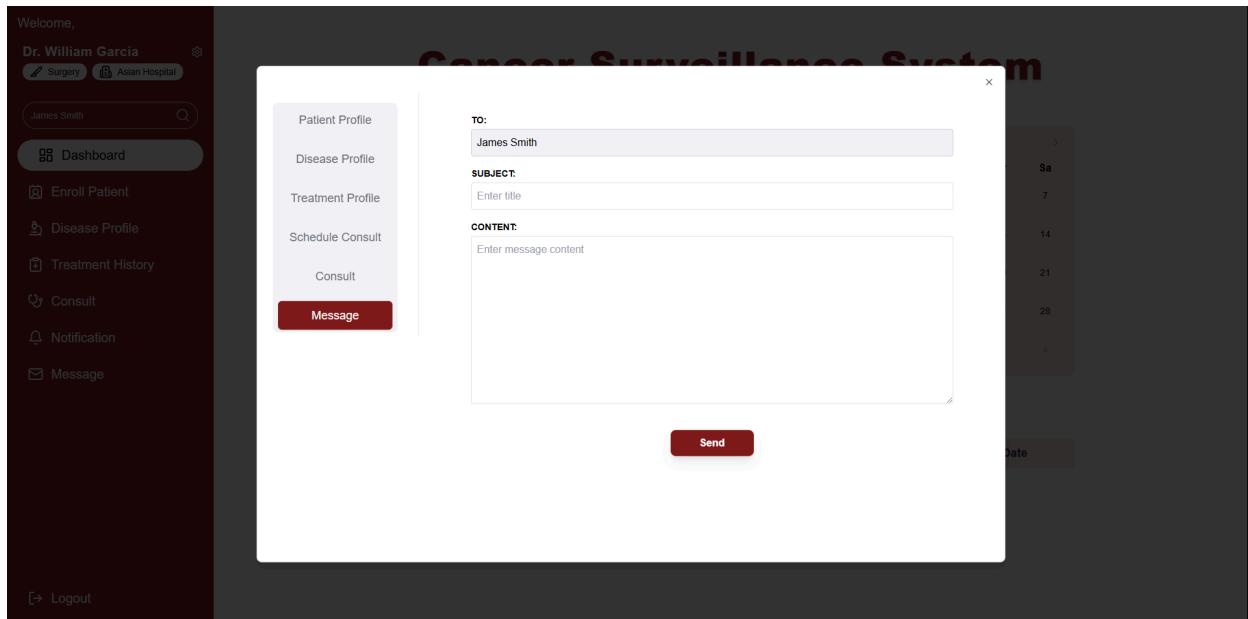
Doctors can write the patient consultation details.



The screenshot shows the Cancer Surveillance System dashboard with a dark theme. The sidebar for Dr. William Garcia includes 'Surgery' and 'Asian Hospital'. A modal window titled 'Consult' is open, showing a form with fields for 'Subjective', 'Objective', 'Assessment', and 'RX Plan'. The 'Objective' field is currently active. The background calendar for January 2025 shows the 11th as the selected date.

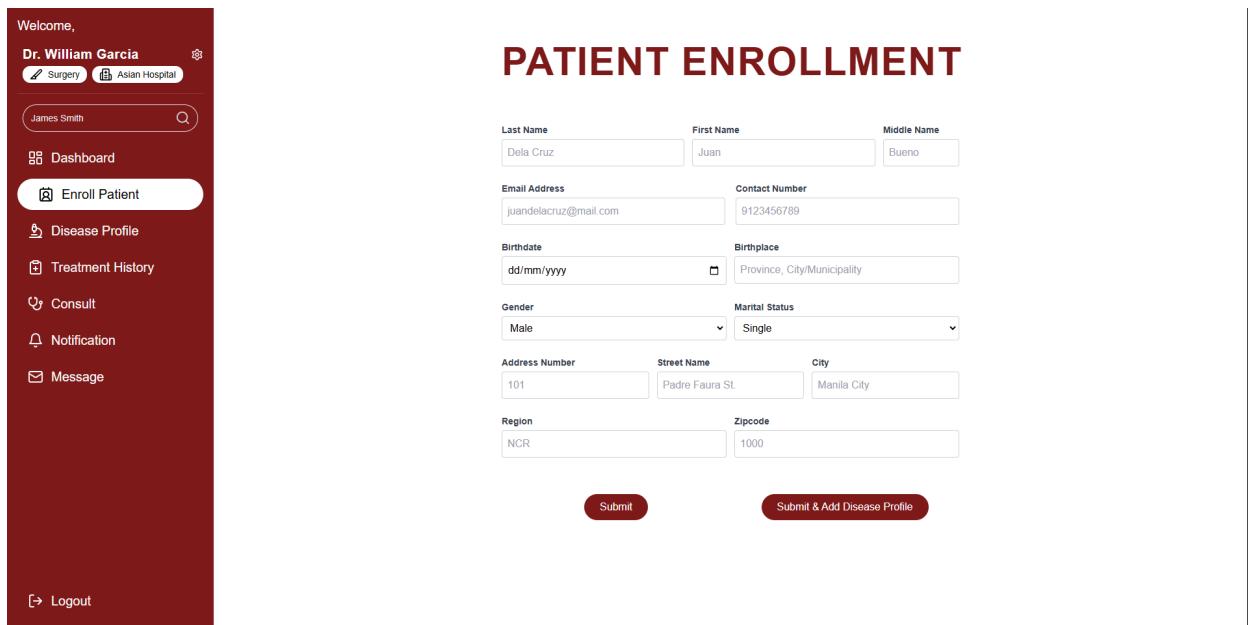
4.2.1.1.4 Message

Doctors can write the emails for the patient.



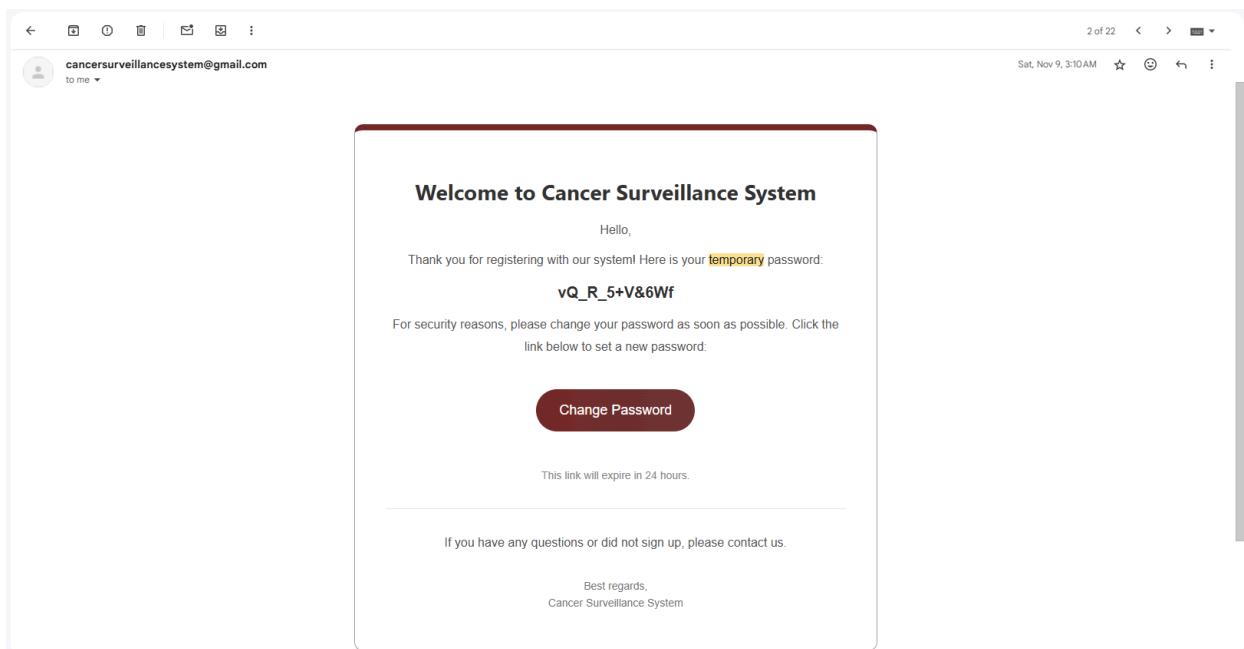
4.2.2 Enroll patient

Doctors can enroll patients with their specific details.



4.2.2.1 Temporary Password

When a patient is enrolled, the email of the patient will receive this notification. This is a temporary password that the patient can use after a doctor created their account.



4.2.3 Disease Profile

Doctors can add a patient's disease profile with their specific details.

Welcome,

Dr. William Garcia

Surgery Asian Hospital

James Smith

Dashboard

Enroll Patient

Disease Profile

Treatment History

Consult

Notification

Message

Logout

DISEASE PROFILE

Last Name: Evelyn White (ekwhite@gmail.com)

Date of Diagnosis: Basis of Diagnosis: Primary Site: Laterality:

Non-Microscopic Options: Death Certificates Only Clinical Investigation Clinical Specific Tumor Markers

HISTOLOGY

Pathology: <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	Tumor Size: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	Tumor Grade: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	Tumor Extension: <input type="radio"/> Yes <input type="radio"/> No
Node Positive: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	Node Harvest: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	Stage: <input style="width: 50px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/> I	Positive Margins: <input type="radio"/> Yes <input type="radio"/> No
			Negative Margins: <input type="radio"/> Yes <input type="radio"/> No

DISEASE

Extent of Disease: <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/> In-Situ	Tumor Size: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/> Enter tumor size	Lymph Node: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/> Lymph Node	Metastatic: <input type="radio"/> Yes <input type="radio"/> No
DISEASE INFORMATION: <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>		Notes: <input style="width: 150px; height: 50px; border: 1px solid #ccc; border-radius: 5px; margin-top: 10px;" type="text"/>	

MULTIPLE DISEASE

Multiple Primary Sites: <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	T Stage: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	N Stage: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	M Stage: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>
Multiple Stages: <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>		G Stage: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	
Stage: <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/> I		Stage Type: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-top: 10px;" type="text"/> Enter stage type	

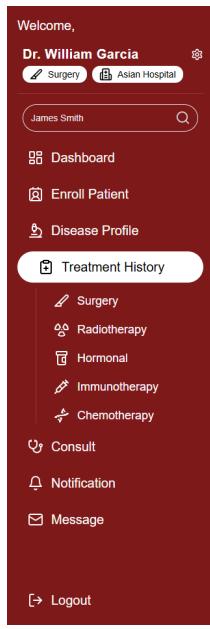
PATIENT STATUS

Patient Status: <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	Select Patient Status: <input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="text"/>	Submit: <input style="width: 50px; height: 25px; background-color: #800000; color: white; border: 1px solid #ccc; border-radius: 5px; margin-right: 10px;" type="button"/>	Submit & Add Treatment History: <input style="width: 150px; height: 25px; background-color: #800000; color: white; border: 1px solid #ccc; border-radius: 5px;" type="button"/>
------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

33

4.2.4 Treatment Profile

Doctors can add a patient's treatment profile (treatment history, surgery, radiotherapy, hormonal, immunotherapy, chemotherapy) with their specific details.



TREATMENT HISTORY

Back Next >

Last Name: Evelyn White (ekwhite@gmail.com)

Primary Treatment Type	Primary Treatment Name
Select or search treatment type	Enter primary RX name

Treatment Purpose	Treatment Plan	Initial Treatment Date
Select or search treatment purpose	Enter treatment plan	dd/mm/yyyy

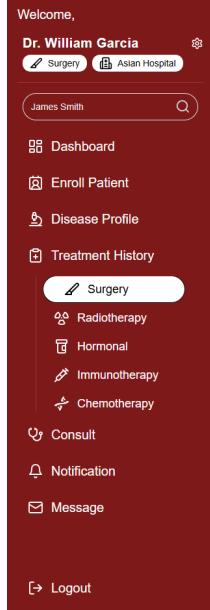
Select Additional Treatments

Select Treatment

Treatment Notes:

Enter treatment notes

Submit Treatment



SURGERY

Back Next >

Last Name: Evelyn White (ekwhite@gmail.com)

Surgeon ID	Hospital
Select a doctor	Select a hospital

Surgery Operation	Surgery Date
Enter surgery operation	dd/mm/yyyy

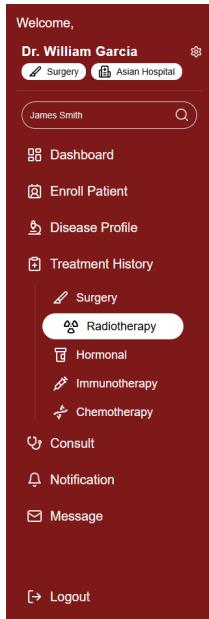
Surgery Intent

Select or search surgery intent

Surgery Findings

Enter surgery findings

Submit Surgery



RADIOTHERAPY

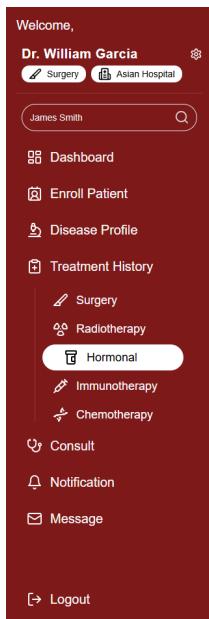
Last Name: Evelyn White (ekwhite@gmail.com)

Doctor: Select a doctor | Facility: Select a hospital

RADRX Type: Enter radiation type | Initial Date: dd/mm/yyyy | Last Date: dd/mm/yyyy

Dose: Enter dose | Body Site: Enter body site | Status: Select status | Is Completed: Yes No

Submit Radiotherapy



HORMONAL

Last Name: Evelyn White (ekwhite@gmail.com)

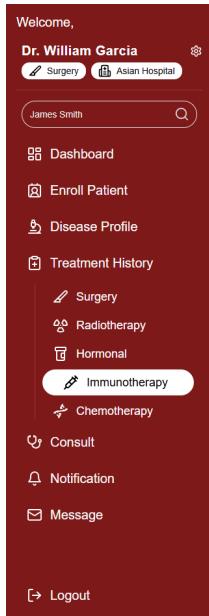
Doctor: Select a doctor

Hormonal Drug: Enter hormonal drug | Hormonal Dose: Enter dosage | Initial Date: dd/mm/yyyy | End Date: dd/mm/yyyy

Status: Select status

RX Notes: Enter RX notes

Submit Hormonal



IMMUNOTHERAPY

Last Name: Evelyn White (ekwhite@gmail.com)

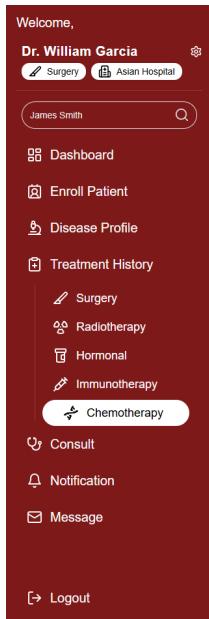
Doctor: Select a doctor | Facility: Select a hospital

Immunotherapy Drug: Enter immunotherapy drug | Initial Date: dd/mm/yyyy | End Date: dd/mm/yyyy

Status: Select treatment status | Is Completed: Yes

Notes: Enter additional notes

Submit Immunotherapy



CHEMOTHERAPY

Last Name: Evelyn White (ekwhite@gmail.com)

Doctor: Select a doctor | Facility: Select a hospital

Chemotherapy Type: Select chemotherapy type | Chemotherapy Protocol: Enter chemotherapy protocol

Cycle Number Given: Enter number of cycles given | Initial Date: dd/mm/yyyy | End Date: dd/mm/yyyy

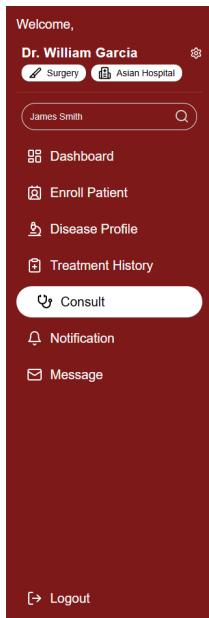
Status: Select current status | Is Completed?: Yes

Notes: Enter notes about the chemotherapy

Submit Chemotherapy

4.2.5 Consult

Doctors can view a patient's profile and their latest consultation information, and proceed with a consultation.



CONSULT

Search Patient

Name: Evelyn Kim White

Age: 37

Diagnosis: Stage II - N/A

Date of Diagnosis: 2019-03-17

Operation: No scheduled surgery

Chemotherapy: No assigned chemotherapy

Radiotherapy: No assigned radiotherapy

Hormonal Therapy: No assigned hormonal therapy

Consult Information

Patient Status: Active

Latest Consult Date: N/A Latest Labs Submitted: N/A Submission Date: N/A

Patient S/Sx Report: No signs and symptoms Patient Report Date: N/A

Subjective

Objective

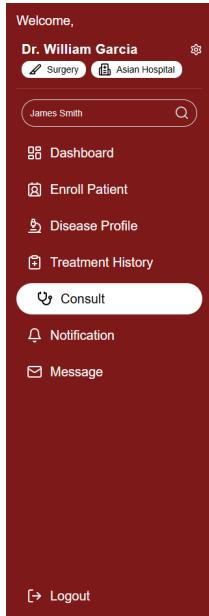
Assessment

RX Plan

UPDATE PATIENT INFO
PRESCRIPTION

LAB REQUEST
CLINICAL ABSTRACT

MED CERTIFICATE
REFERRAL FORM



Subjective

Objective

Assessment

RX Plan

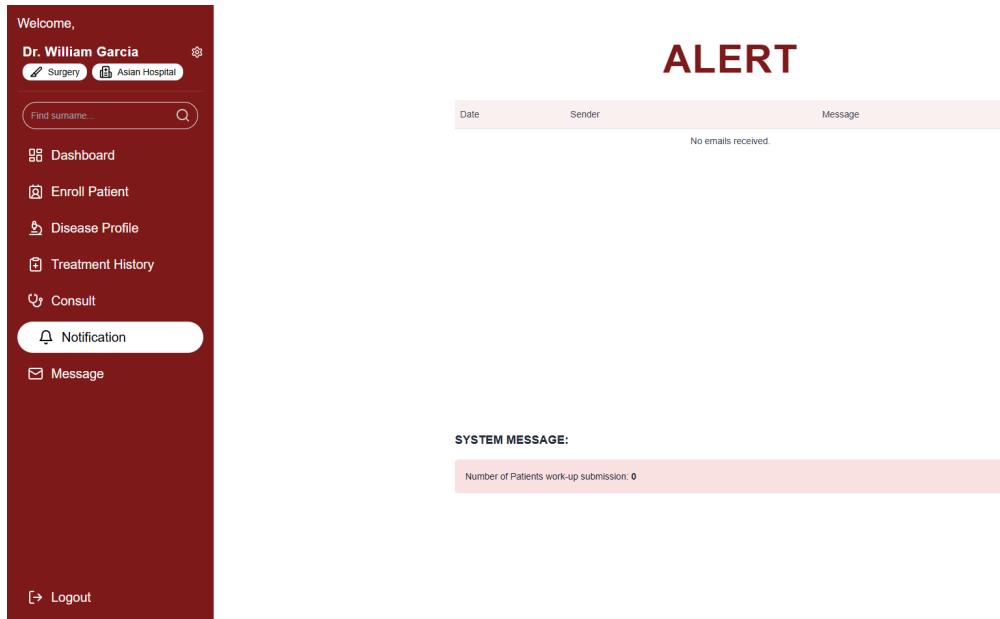
Surveillance/Workup

Patient Status

Alive

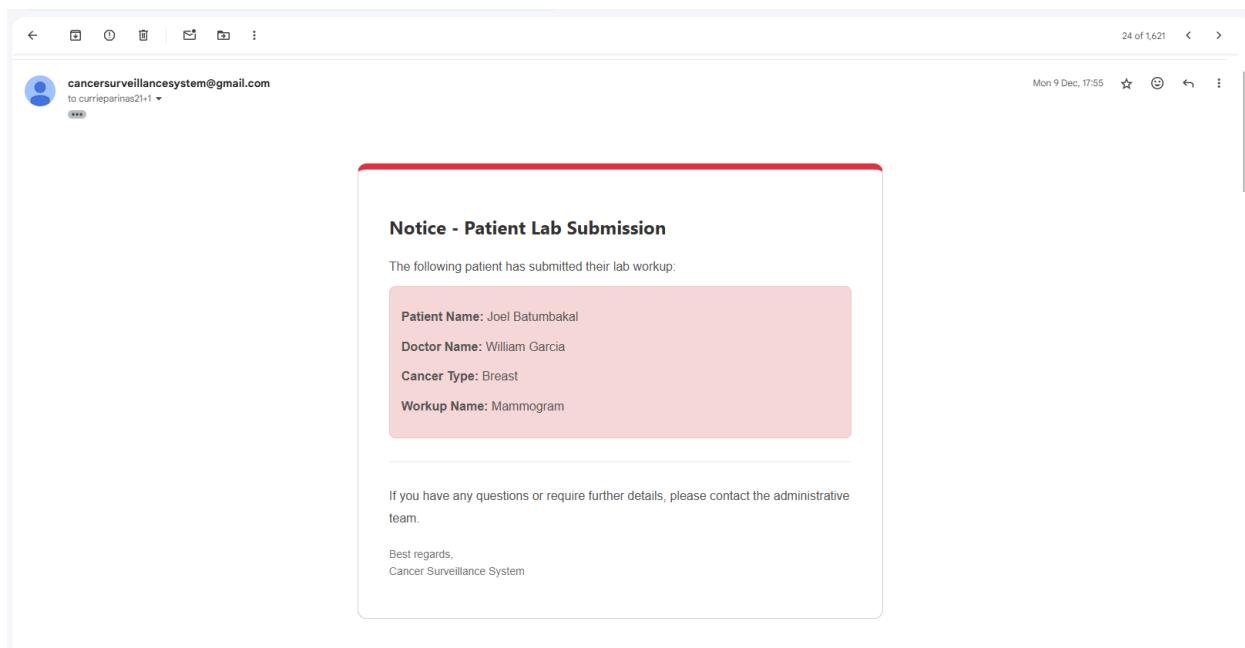
4.2.6 Notification

Doctors can view all emails received.



The screenshot shows the Cancer Surveillance System dashboard for Dr. William Garcia. The top navigation bar includes a search bar, a 'Surgery' button, and an 'Asian Hospital' button. The sidebar on the left lists 'Dashboard', 'Enroll Patient', 'Disease Profile', 'Treatment History', 'Consult', 'Notification' (which is highlighted in a white box), and 'Message'. The main content area features a large red 'ALERT' header. Below it, a table with columns 'Date', 'Sender', and 'Message' shows a single entry: 'No emails received.' A 'SYSTEM MESSAGE:' section at the bottom displays 'Number of Patients work-up submission: 0'.

Doctors can also receive an automated lab submission notification.



The screenshot shows an email from 'cancersurveillance@gmail.com' to 'currieparinas21+' with the subject 'Notice - Patient Lab Submission'. The email body contains the following text:

Notice - Patient Lab Submission

The following patient has submitted their lab workup:

Patient Name: Joel Batumbakal
Doctor Name: William Garcia
Cancer Type: Breast
Workup Name: Mammogram

If you have any questions or require further details, please contact the administrative team.

Best regards,
Cancer Surveillance System

4.2.7 Message

Doctors can email a specific patient.

Welcome,

Dr. William Garcia

Surgery Asian Hospital

Find surname...

MESSAGE

TO: **SUBJECT:**

MESSAGE:

Send

4.3.6 Log out

Doctors can logout of their session.

Welcome,

Dr. William Garcia

Surgery Asian Hospital

Find surname...

Cancer Surveillance System

Patient List

Today Select All

No patients found

December 2024

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Logging Out

Are you sure you want to log out?

Submitted Workup

Name	Diagnosis	Submission Date	Laboratory	Last Encounter Date
Loading...				

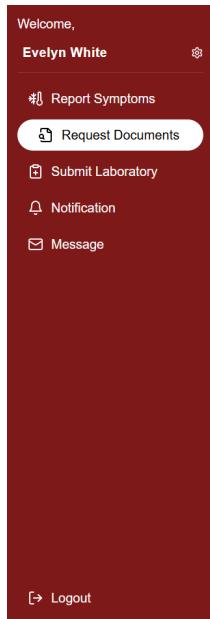
4.3 Patient Pages

4.3.1 Report Symptoms

This will be the view of the patient once they logged in. The following symptoms are cancer specific and differ for each cancer site. The patient can select their symptoms and submit it.

4.3.2 Request Documents

Patients can request documents/laboratories specific to their cancer body site. These previews are downloadable PDF with the patients specific details, cancer body site, and referral if there are any.

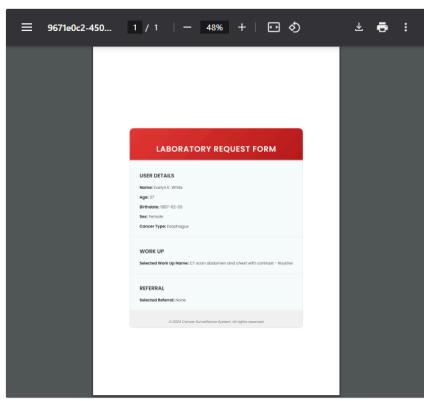


LABORATORY REQUEST

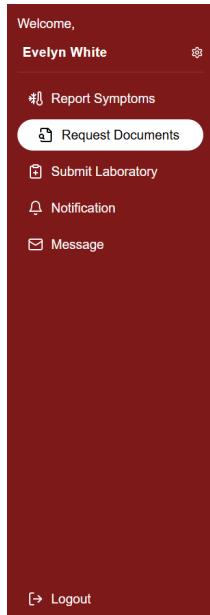
Work Up Names

- Esophagogastroduodenoscopy - Routine
Endoscopy
Referral: Gastroenterologist
- Chest CT scan with IV contrast - Routine
Imaging
- CT scan abdomen and chest with contrast
- Routine
Imaging
- Nutritional assessment - Routine
Clinical Test
Referral: Nutritionist
- Complete blood count (CBC) - Routine
Blood Testing
- Creatinine - Routine
Blood Testing

PDF Preview



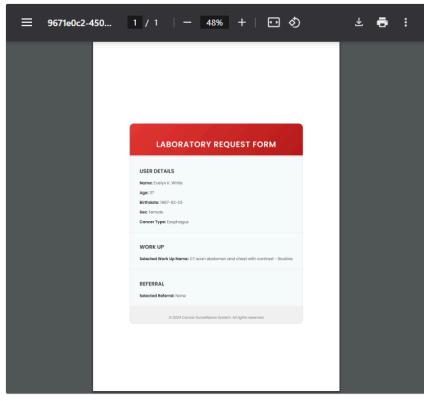
[Download PDF](#)



Work Up Names

- Esophagogastroduodenoscopy - Routine
Endoscopy
Referral: Gastroenterologist
- Chest CT scan with IV contrast - Routine
Imaging
- CT scan abdomen and chest with contrast
- Routine
Imaging
- Nutritional assessment - Routine
Clinical Test
Referral: Nutritionist
- Complete blood count (CBC) - Routine
Blood Testing
- Creatinine - Routine
Blood Testing
- AST - Routine
Blood Testing
- ALT - Routine
Blood Testing

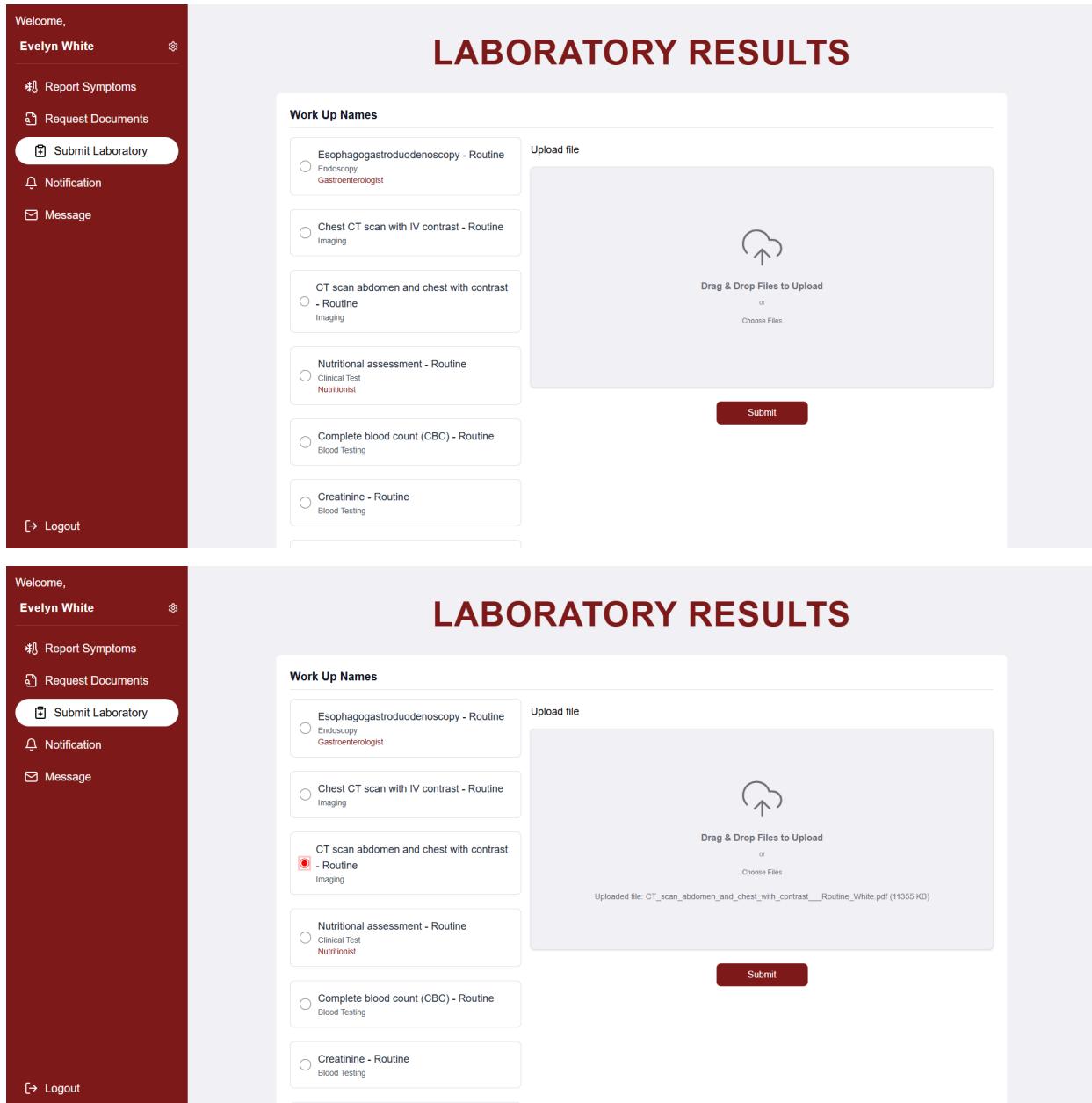
PDF Preview



[Download PDF](#)

4.3.3 Submit Laboratory

Patients can submit their laboratory results by uploading a file and selecting the specific work-up/laboratory to be submitted. They may drag and drop a file or a picture.



The screenshots illustrate the 'Submit Laboratory' process in the Cancer Surveillance System. The top screenshot shows the initial selection of a work-up name from a list. The bottom screenshot shows the file successfully uploaded and ready to be submitted.

Top Screenshot (Initial Selection):

- Left sidebar: Welcome, Evelyn White, Report Symptoms, Request Documents, **Submit Laboratory** (highlighted), Notification, Message, Logout.
- Right panel: **LABORATORY RESULTS**
 - Work Up Names**
 - Esophagogastroduodenoscopy - Routine
Endoscopy
Gastroenterologist
 - Chest CT scan with IV contrast - Routine Imaging
 - CT scan abdomen and chest with contrast
- Routine Imaging
 - Nutritional assessment - Routine
Clinical Test
Nutritionist
 - Complete blood count (CBC) - Routine
Blood Testing
 - Creatinine - Routine
Blood Testing
 - Upload file**
 - Drag & Drop Files to Upload
 - or
 - Choose Files
 - Submit** button

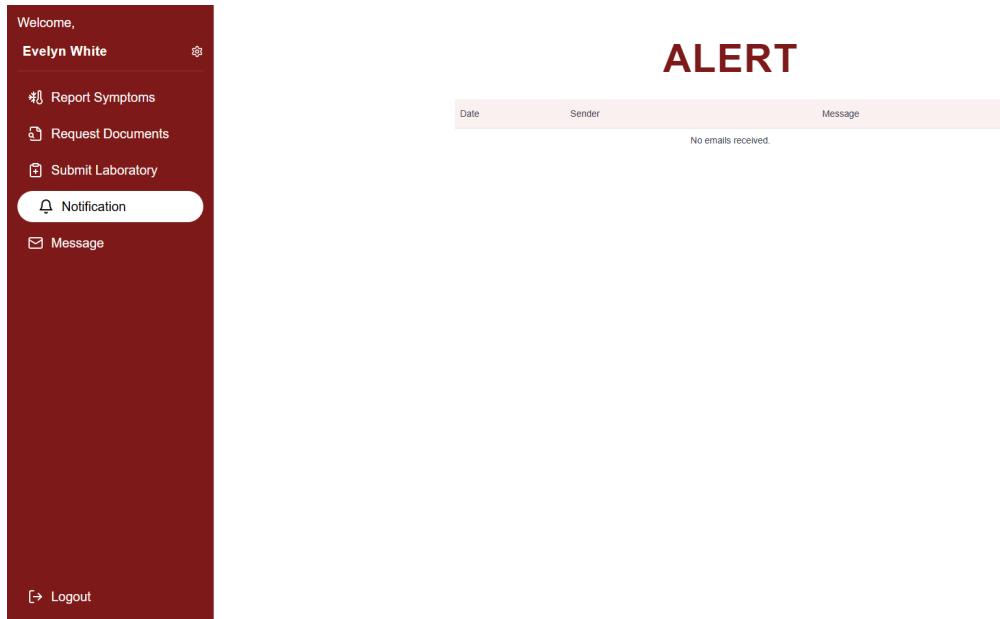
Bottom Screenshot (File Uploaded):

- Left sidebar: Welcome, Evelyn White, Report Symptoms, Request Documents, **Submit Laboratory** (highlighted), Notification, Message, Logout.
- Right panel: **LABORATORY RESULTS**
 - Work Up Names**
 - Esophagogastroduodenoscopy - Routine
Endoscopy
Gastroenterologist
 - Chest CT scan with IV contrast - Routine Imaging
 - CT scan abdomen and chest with contrast
- Routine Imaging
 - Nutritional assessment - Routine
Clinical Test
Nutritionist
 - Complete blood count (CBC) - Routine
Blood Testing
 - Creatinine - Routine
Blood Testing
 - Upload file**
 - Drag & Drop Files to Upload
 - or
 - Choose Files

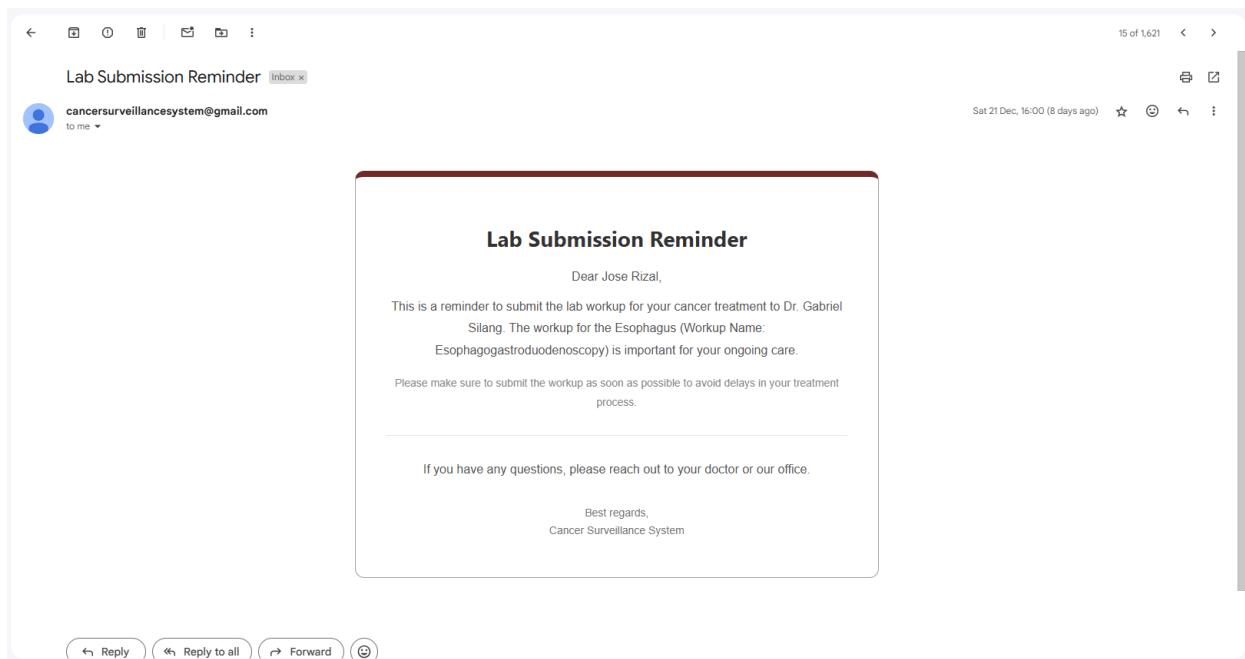
Uploaded file: CT_scan_abdomen_and_chest_with_contrast_Routine_White.pdf (11355 KB)
 - Submit** button

4.3.4 Notification

Patients can view all emails received.

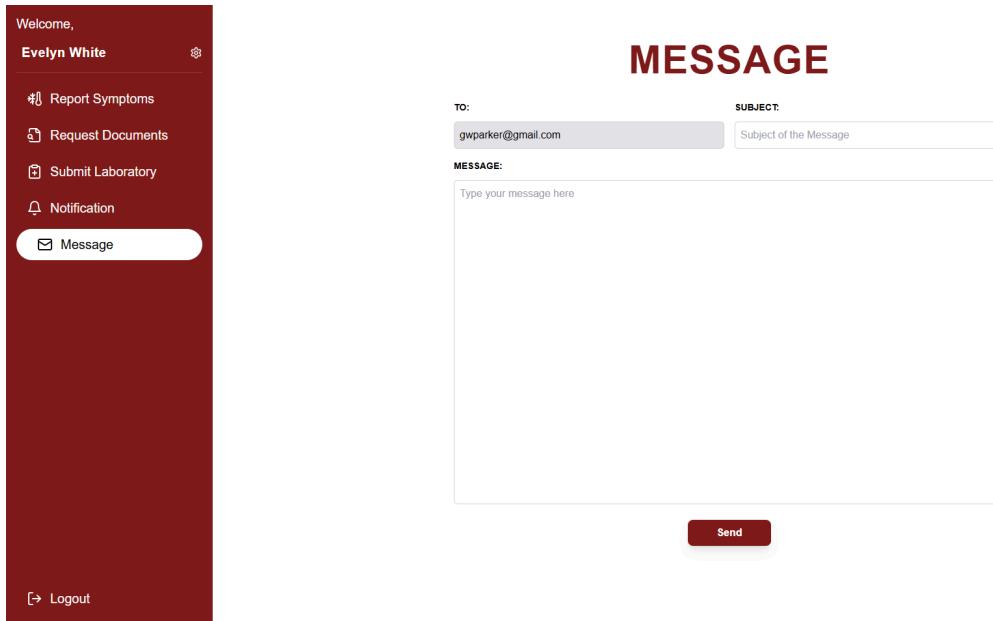


After a specific workup duration, and according to the workup frequency, the patient should receive a reminder that they need to submit another lab.



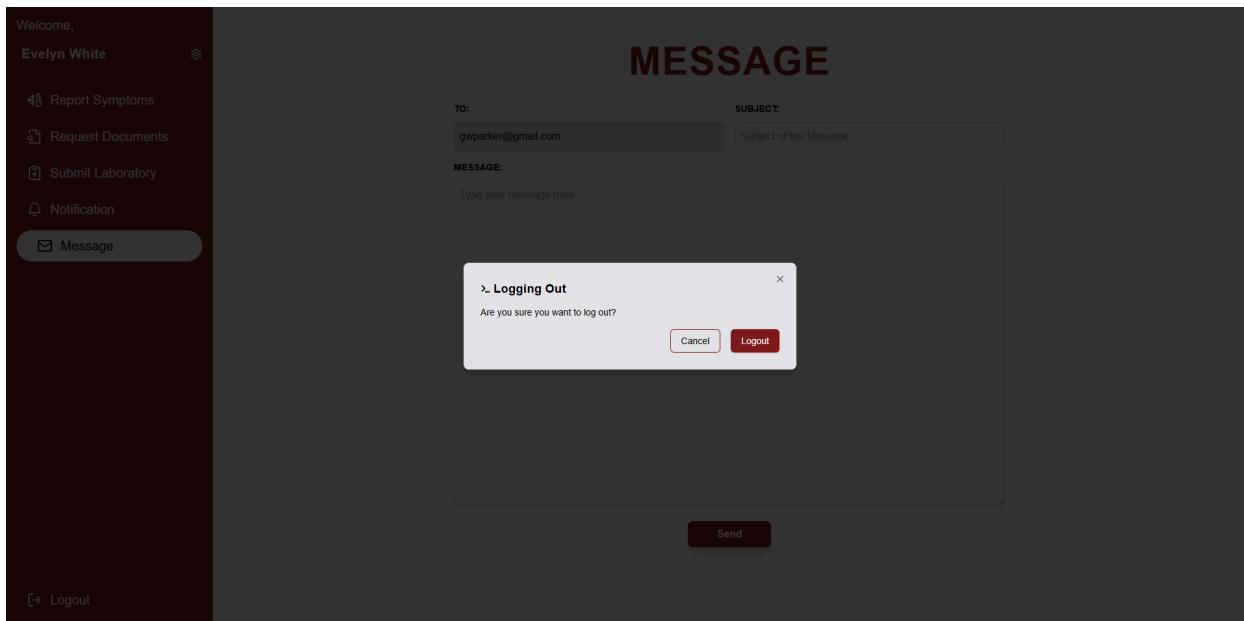
4.3.5 Message

Patients can email their specific doctor.



4.3.6 Log out

Patients can logout of their session.



4.4 Registration Page

A doctor may register an account using their specific information and credentials.

Doctor Registration

Last Name Dela Cruz	First Name Juan	Middle Name Bueno	Doctor License Number 9182347	Doctor License Expiration Date dd/mm/yyyy
Email Address juandelacruz@mail.com		Doctor's E-Signature Choose File No file chosen		
Password Password	Re-enter Password Re-enter Password		Hospital Philippine General Hospital	
Birthdate dd/mm/yyyy	Birthplace City or Province	Gender Male	Marital Status Single	Department Medicine
Contact Number 9123456789	Address Number 101	Street Name Padre Faura St	City Manila City	Specialty Surgical Oncology
Region NCR	Zipcode 1000		Register	

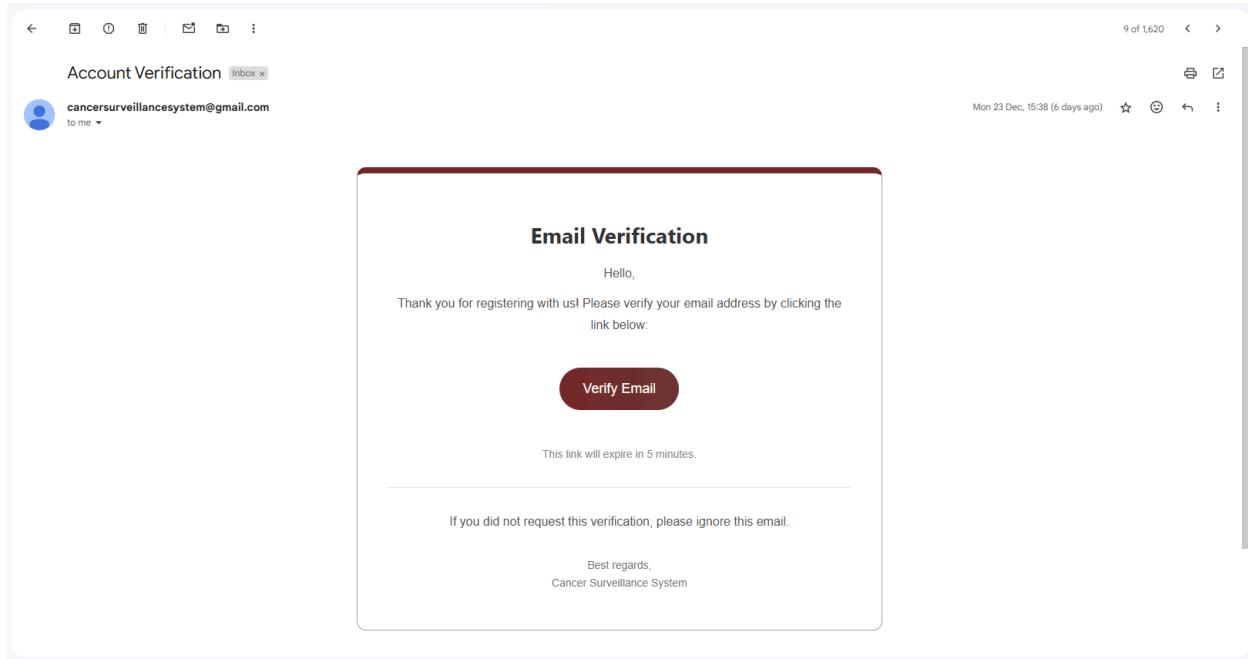
Already registered? [Sign In!](#)

Doctor Registration

Last Name Parinas	First Name Currie	Middle Name Bueno	Doctor License Number 1234567	Doctor License Expiration Date 11/01/2025
Email Address currie2103+1@gmail.com		Doctor's E-Signature Choose File pic.png		
Password *****	Re-enter Password *****		Hospital Philippine General Hospital	
Birthdate 01/01/2000	Birthplace Cavite	Gender Male	Marital Status Single	Department Medicine
Contact Number 9123456789	Address Number 101	Street Name Padre Faura	City Manila City	Specialty Surgical Oncology
Region NCR	Zipcode 1000		Register	

Already registered? [Sign In!](#)

Once registered, it should redirect to the login page and the email used should receive a verification email as follows:

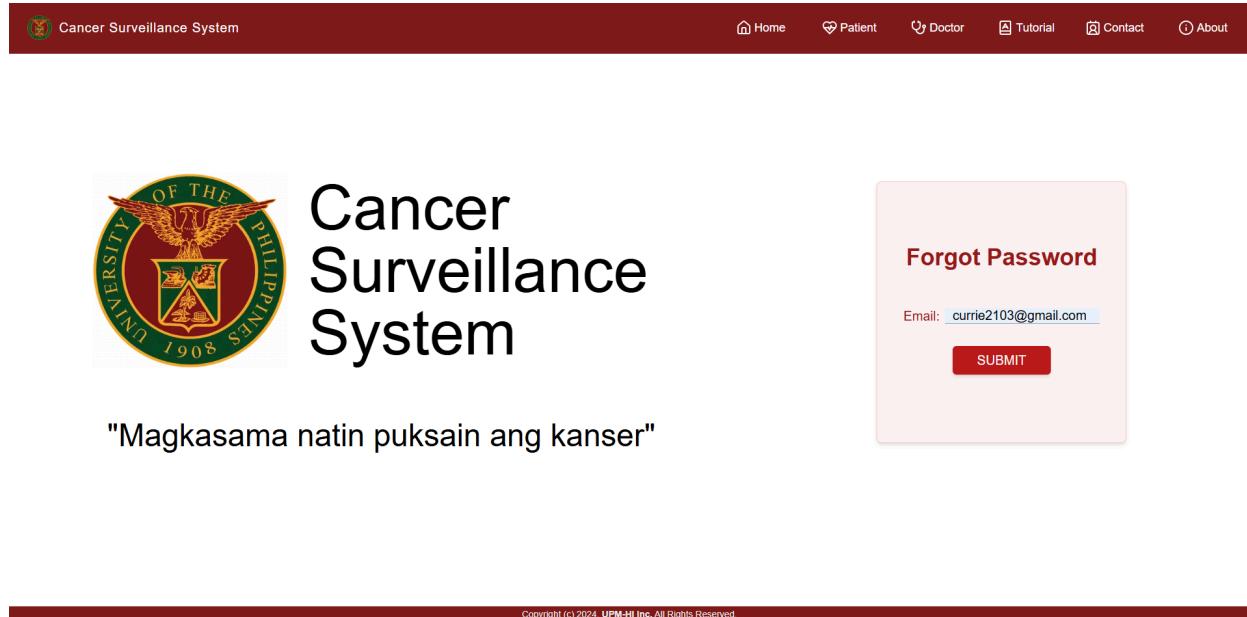


After verifying the email, it will open a new tab to say that it has verified the account successfully.



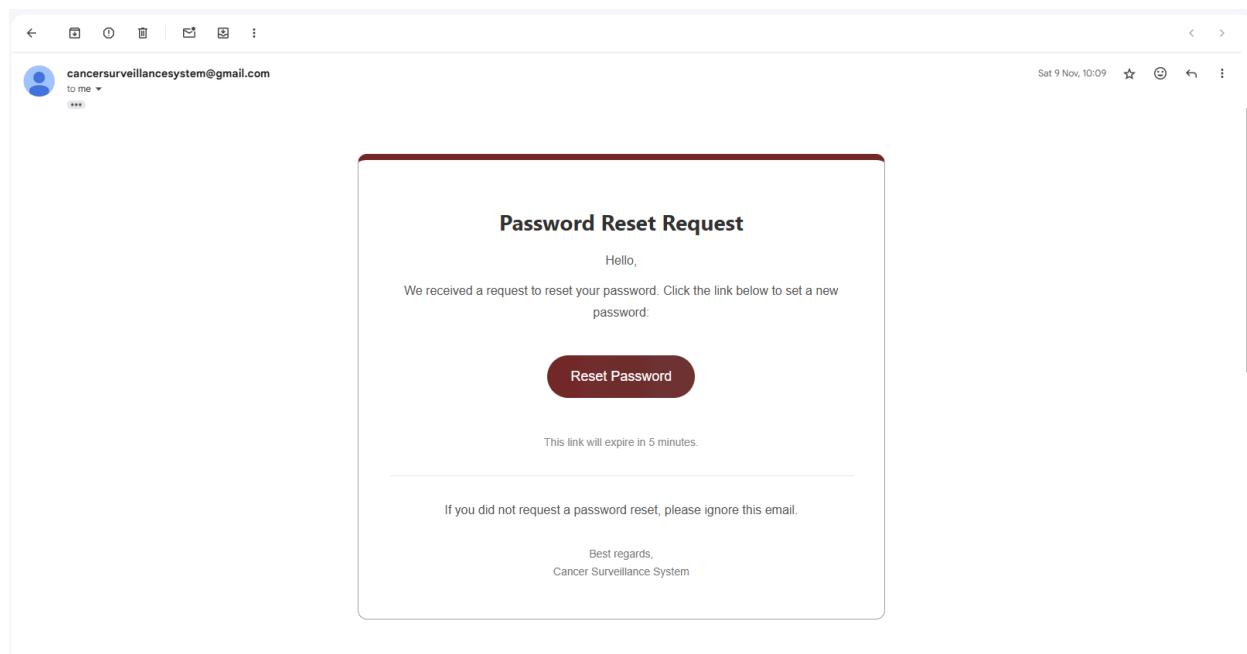
4.5 Forgot Password Page

A doctor may change an account's password using their unique email.



The screenshot shows the homepage of the Cancer Surveillance System. At the top, there is a navigation bar with links for Home, Patient, Doctor, Tutorial, Contact, and About. The main content area features the university's logo (University of the Philippines 1908) and the text "Cancer Surveillance System" in large, bold letters. Below this, a quote in Tagalog is displayed: "Magkasama natin puksain ang kanser". To the right, a pink callout box contains the "Forgot Password" form. It has a text input field for "Email" containing "currie2103@gmail.com" and a red "SUBMIT" button. At the bottom of the page, a copyright notice reads "Copyright (c) 2024 UPM-HI Inc. All Rights Reserved".

Once submitted, the email entered will receive a password reset request email.



The screenshot shows an email inbox with a single message from "cancersurveillance@gmail.com" to the user. The email subject is "Password Reset Request". The content of the email is as follows:

Password Reset Request

Hello,

We received a request to reset your password. Click the link below to set a new password:

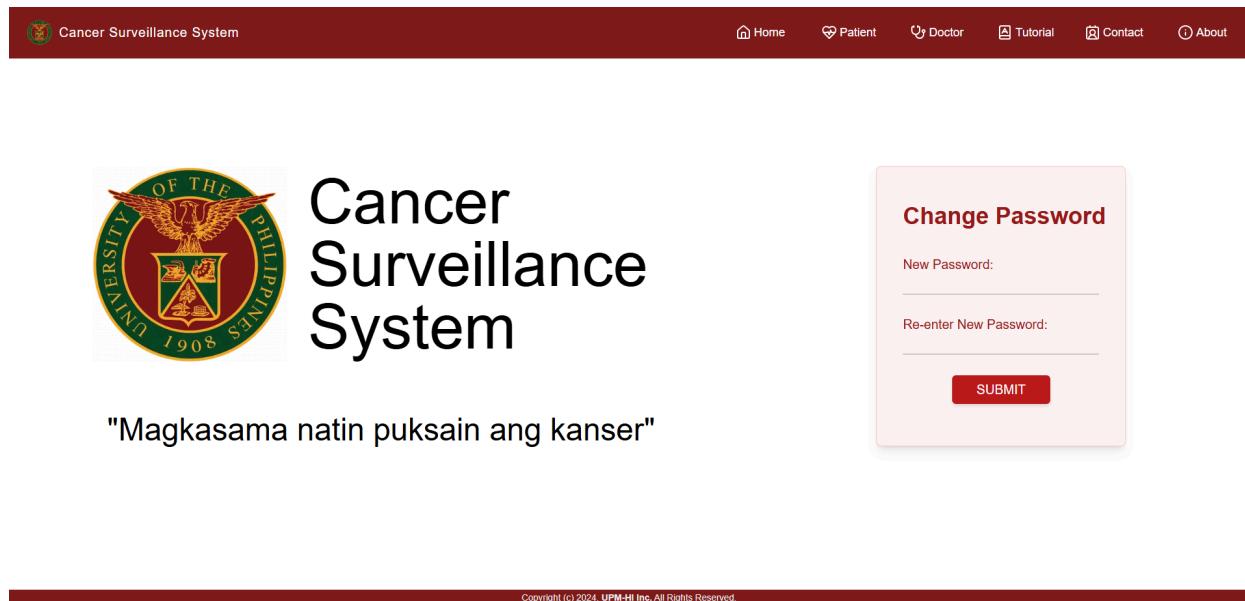
[Reset Password](#)

This link will expire in 5 minutes.

If you did not request a password reset, please ignore this email.

Best regards,
Cancer Surveillance System

When clicked, it will open another tab which will then prompt the user to enter their new password.



The screenshot shows the Cancer Surveillance System's login interface. At the top, there's a dark red header bar with the system's name and a navigation menu. Below this, the main content area features the University of the Philippines' circular logo on the left. To the right of the logo, the text "Cancer Surveillance System" is displayed in a large, bold, black font. Below this main title is a tagline in English: "Magkasama natin puksain ang kanser". To the right of the main content area, a modal window is open with a light pink background, titled "Change Password". It contains two input fields: one for "New Password" and another for "Re-enter New Password", both with placeholder text. At the bottom of the modal is a red "SUBMIT" button. At the very bottom of the page, there's a small, dark red footer bar with the copyright notice "Copyright (c) 2024, UPM-HI Inc. All Rights Reserved."

Once submitted, the user will be redirected to the login page and they can use the new password entered.

4.6 Page not found

A user that accessed a page that is not specifically made by the developers will be prompted to go back to the home page.

