



2021–2022 SPRING SEMESTER

CS319 OBJECT-ORIENTED SOFTWARE ENGINEERING

TEAM: CHICKEN NUGGETS

FINAL REPORT

COURSE: CS319 **SECTION:** 1

DATE: 9th May 2022

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1. INTRODUCTION


After working in separate branches on the tasks we shared within the group, we got some errors when we put our codes together. These were class and variable names, database errors, and filament table/form errors. We re-created the database and class structure we needed in the project in a separate branch and edited it by merging our branches into the new branch. In the final stage of the project, we fixed the bugs that we noticed due to our tests and created a website that can be used efficiently for the Bilkent health center.

2. LESSONS LEARNED

We coded the website we created for the health center using the TALL Stack (Tailwind, Alpine.js, Laravel, and Livewire), and used MySQL as our database. Therefore, a lot of research and studying was needed to learn all of the different technologies involved. Using Laravel for some of us in the group and PHP for others was the first time. That is why we divided the tasks randomly, and everyone got an idea and code about both the database, frontend, and backend sections of the website. However, it took more time than we expected to finish our tasks as we all learned so many new things on this project. Besides, we did not think that the structures of our codes would cause so much confusion when merging our branches. In short, the biggest lesson we have learned is the importance of organization and time management.

3. USER'S GUIDE

3.1. Login




**HEALTH
CENTER**

Sign in to your account
Or contact help@bilheal.com to register an account

Email address


Password

☐ Remember me [Forgot your password?](#)



Users in the patient role can log in to the site using their email addresses and passwords assigned by the admins on the login page.

3.2. Onboarding



Dashboard Support Tests Diagnosis Reports Documents Vaccines Visits Jefferey Nitzsche ▾

Onboarding
Let us get to know you better.

General Information

Bilkent ID: * Birth Date: *

Contact help@bilheal.com to change your ID Contact help@bilheal.com to change your birth date

Height (cm): * Weight (kg): *

Gender: * ☐ Male ☒ Female ☐ Other

Medical History

Please list any drug allergies:

Please list any operations:

Gender: ☐ Male ☒ Female ☐ Other

Medical History

Please list any drug allergies:

Dicta id dolore numquam est quia. Sed dolor explicabo optio natus similique dolor exercitationem sit. Nulla eligendi ut illum sed reprehenderit voluptas autem illum.

Please list any operations:

Voluptatum suscipit possimus molestias eos. Hic quia quis perspiciatis sequi recusandae aut excepturi. Autem incidunt veritatis sit tempora et. Quo ullam similique qui non qui.

Have you ever had (Please check all that apply):

☐ Anemia

☐ Arthritis

☐ Asthma

☐ Bleeding Disorders

☐ Cancer

☐ Diabetes

☐ Digestive Problems

☐ Emotional Disorder

☐ Emphysema

☐ Epilepsy Seizures

☐ Fainting Spells

☐ Gallstones

☐ Gout

☐ Heart Attack

☐ Heart Disease

☐ Hepatitis

☐ High Blood Pressure

☐ Kidney Disease

☐ Liver Disease

☐ Lung Disease

☐ Neurological Disorders

☐ Rheumatic Fever

☐ Sleep Apnea

☐ Thyroid Problems

☐ Tuberculosis

☐ Ulcer Disease

☐ Ulcerative Colitis

☐ Venereal Disease

Please list your current medications:

Qui cum maxime non quisquam ipsa adipisci qui. Ullam saepe enim ad at nostrum rerum.

Please list other illnesses that is not on the list:

Eos id minima quia. Vel vel expedita et voluptatem suscipit. Accusamus et ur

Do you smoke? *

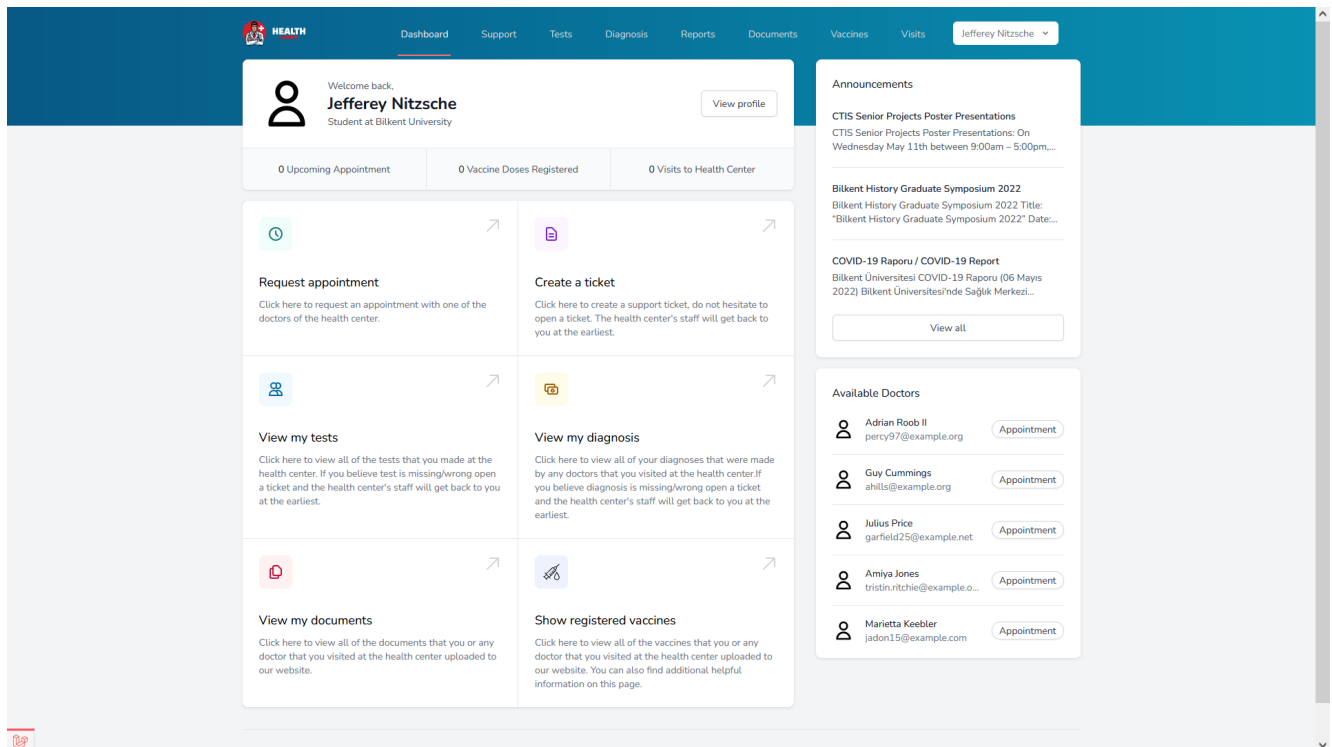
☐ Yes

☒ No

SUBMIT


The user in the patient role encounters the initial registration form on the onboarding page after logging in to the website for the first time. This form must be filled in to obtain the medical history information of the patients. In order to save the information, it must be submitted after filling out the form.

3.3. Viewing Dashboard



After users log in to the site, they are directed to the dashboard page. Users can easily navigate to the required page by finding the operations they want to do from the menus.

3.4. Viewing Announcements




DashboardSupportTestsDiagnosisReportsDocumentsVaccinesVisitsJefferey Nitzsche

Announcements

A list of all the announcements.

Id	Title	Description	Announcement date
1	Bilkent History Graduate Symposium 2022	Bilkent History Graduate Symposium 2022 Title: "...	Mar 21, 2022
2	COVID-19 Raporu / COVID-19 Report	Bilkent Üniversitesi COVID-19 Raporu (06 Mayıs 202...	Jan 30, 2022
3	Psychology Department Senior Project Poster Presentations	Title: Psychology Department Senior Project Poster...	Jan 20, 2022
4	CTIS Senior Projects Poster Presentations	CTIS Senior Projects Poster Presentations: On Wed...	Apr 11, 2022
5	Registration Information for Summer School	Dear Students, Below please find a summary of the...	Jan 23, 2022

Showing 1 to 5 of 5 results10 per page



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Announcement Date: 21 Mar 2022

VIEW ALL ANNOUNCEMENTS

Bilkent History Graduate Symposium 2022

Bilkent History Graduate Symposium 2022

Title: "Bilkent History Graduate Symposium 2022" Date: 09-10 May 2022, Monday and Tuesday

Time: 09:20 – 17:00

Venue: FEASS, C-Block Amphi

Dear Colleagues and Students, It is our great pleasure to invite you all to Bilkent History Graduate Symposium, which will take place on 9-10 May. Twenty six graduate students from Bilkent University, Bogazici University, Middle East Technical University and Koç University will present their work in eight panel sessions at this two-day event which will be held at C-Block Amphi from 09:20 till 17:00 each day.


Bilkent History Graduate Symposium 2022 Schedule: May, 9 Monday

h. 9:20 Welcome Address (Prof. Refet Gürkaynak, Dean of FEASS and Director of the Graduate Schools of Economics and Social Sciences)

h. 9:30-11:00- The Ottomans and their Histories (Discussant: Berke Torunoğlu, Bilkent University)

When the announcement section on the right of the dashboard is clicked, it is possible to view the announcements made in Bilkent.

3.5. Creating, Replying and Viewing Support Tickets



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Support Ticket #2

Last updated at 10 May 2022 04:31 UTC

BACK TO MY SUPPORT TICKETS

Messages

No messages found. Type in a message by using the form below:

Message *

For urgent requests, please dial 6666 from campus or (0312) 290 16 66 from your phone.

Reply

Support Ticket Information

Overview of the support ticket.

Subject

eum

Status

Closed

Priority

Low

Bilkent ID

22808416


Created at

10 May 2022

Re-open ticket

A ticket can be created by using the support option in the menu on the dashboard. Users can send messages to users in the staff role using tickets.

3.6. Viewing Tests



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Tests

A list of all your tests that were done at the health center.


Id	Doctor name	Department	Test type	Test date	Created at	Updated at	
10	Adrian Roob II	V.D.	pcr	Jan 30, 2022	May 10, 2022	May 10, 2022	↓
15	Amiya Jones	Gynaecology	pcr	Jan 5, 2022	May 10, 2022	May 10, 2022	↓
16	Julius Price	V.D.	regular	Feb 6, 2022	May 10, 2022	May 10, 2022	↓
28	Julius Price	Skin	regular	Apr 25, 2022	May 10, 2022	May 10, 2022	↓
30	Marietta Keebler	Obstetrics	pcr	Apr 25, 2022	May 10, 2022	May 10, 2022	↓
31	Adrian Roob II	Gynaecology	pcr	Mar 4, 2022	May 10, 2022	May 10, 2022	↓
36	Guy Cummings	Skin	pcr	Mar 30, 2022	May 10, 2022	May 10, 2022	↓
39	Marietta Keebler	Gynaecology	regular	Mar 31, 2022	May 10, 2022	May 10, 2022	↓

Showing 1 to 8 of 8 results

10 per page

By using the Test option in the menu on the dashboard, the past medical tests of the patients can be viewed and edited. These reports can also be downloaded by the user.

3.7. Viewing Diagnoses



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Diagnosis

A list of all the diagnoses that your doctors provided to the health center.


Id	Doctor name	Department	Diagnosis type	Diagnosis date	Created at	Updated at	
2	Amiya Jones	V.D.	autem	May 1, 2009	May 10, 2022	May 10, 2022	↓
3	Marietta Keebler	Plastic surgery	qui	Nov 26, 1997	May 10, 2022	May 10, 2022	↓
4	Marietta Keebler	Dental	fugit	Apr 9, 2008	May 10, 2022	May 10, 2022	↓
10	Adrian Roob II	Paediatrics	et	Feb 27, 1985	May 10, 2022	May 10, 2022	↓
14	Adrian Roob II	Orthopaedics	voluptate	Apr 4, 1986	May 10, 2022	May 10, 2022	↓
20	Adrian Roob II	Neurology	pariatur	Jun 13, 2014	May 10, 2022	May 10, 2022	↓
23	Adrian Roob II	Skin	et	Jan 7, 1981	May 10, 2022	May 10, 2022	↓

Showing 1 to 7 of 7 results10 per page



By using the Diagnosis option in the menu on the dashboard, the past medical diagnoses of the patients can be viewed and edited. These reports can also be downloaded by the user.

3.8. Viewing Reports



DashboardSupportTestsDiagnosisReportsDocumentsVaccinesVisits

Jefferey Nitzsche

Reports

A list of all the medical reports provided by the health center.

Id	Doctor name	Subject	Days	Report date	Created at	Updated at	
1	Adrian Roob II	id	94	Jan 20, 2022	May 10, 2022	May 10, 2022	↓
10	Amiya Jones	quibusdam	121	Mar 26, 2022	May 10, 2022	May 10, 2022	↓
14	Amiya Jones	nesciunt	40	Mar 10, 2022	May 10, 2022	May 10, 2022	↓
17	Adrian Roob II	animi	7	Feb 3, 2022	May 10, 2022	May 10, 2022	↓
18	Guy Cummings	iste	107	Apr 27, 2022	May 10, 2022	May 10, 2022	↓
21	Amiya Jones	similique	79	Feb 11, 2022	May 10, 2022	May 10, 2022	↓
22	Amiya Jones	architecto	179	Mar 1, 2022	May 10, 2022	May 10, 2022	↓
26	Amiya Jones	id	20	May 9, 2022	May 10, 2022	May 10, 2022	↓
35	Adrian Roob II	cumque	155	Feb 24, 2022	May 10, 2022	May 10, 2022	↓
39	Adrian Roob II	quis	87	Jan 29, 2022	May 10, 2022	May 10, 2022	↓


Showing 1 to 10 of 11 results

10 per page

12>

By using the Reports option in the menu on the dashboard, the past medical reports of the patients can be viewed and edited. These reports can also be downloaded by the user. Users in the patient role should add the number of days they want to take leave from Bilkent and their medical report.

3.9. Managing Documents



DashboardSupportTestsDiagnosisReportsDocumentsVaccinesVisits

Jefferey Nitzsche

Update Document

Click the Update button to update the information of your document.

VIEW ALL DOCUMENTS

Name: *

Dalton D'Amore

Upload File: *


x

f435cf17-50a2-3495-8a6b-79dd5ed1ceff.pdf

79 KB

File size can not exceed 100MB and file must be of the type png, jpg, jpeg, pdf

Update



DashboardSupportTestsDiagnosisReportsDocumentsVaccinesVisits

Jefferey Nitzsche

Create Document

Click the Save button to submit your document to the health center.

VIEW ALL DOCUMENTS

Name: *


Upload File: *

Drag & Drop your files or Browse

File size can not exceed 100MB and file must be of the type png, jpg, jpeg, pdf

Save

3.10. Managing Vaccines



DashboardSupportTestsDiagnosisReportsDocumentsVaccinesVisitsJefferey Nitzsche

Update Vaccine

VIEW ALL VACCINES

Click the Update button to update the information of your vaccine.

File Name: *

Tamara Aufderhar

Vaccine Type: *

Covid

Vaccine Date: *

Apr 26, 2022

Dose no: *

5

Please enter a number between 1-10


Upload File: *

4f4021ae-9229-33a0-82bd-47b4b9c4243.png

File size can not exceed 100MB and file must be of the type pdf

Update





DashboardSupportTestsDiagnosisReportsDocumentsVaccinesVisitsJefferey Nitzsche

Vaccines

REGISTER A VACCINE

All of the your registered vaccines in the health center.

COVID Stats

Total Doses

5










Fulfilling requirement

Next Recommended Dose

26 Sep 2022

Last PCR Test

25 Apr 2022

Id	Vaccine type	Vaccine date	Dose no	Created at	Updated at	
6	Covid	Apr 26, 2022	5	May 10, 2022	May 10, 2022	  
11	Other	Apr 8, 2022	3	May 10, 2022	May 10, 2022	  
13	Other	Mar 24, 2022	5	May 10, 2022	May 10, 2022	  

Showing 1 to 3 of 3 results

10 per page



3.11. Viewing Visits

HEALTH Dashboard Support Tests Diagnosis Reports Documents Vaccines Visits Jefferey Nitzsche ▾

Visits
All of the your previous visits to the health center.

[REQUEST AN APPOINTMENT](#)

Visit Stats


Total Visits
3

Last Visit
05 May 2022

Upcoming Appointment
03 Jan 2022

Id	Visit date	Created at	Updated at
1	May 5, 2022	May 10, 2022	May 10, 2022
5	Feb 25, 2022	May 10, 2022	May 10, 2022
18	Jan 8, 2022	May 10, 2022	May 10, 2022

Showing 1 to 3 of 3 results 10 ▾ per page



The user can go to the page where his visits are by clicking visits from the main bar. This page displays the details of the user's previous visits to the health center. By clicking the Create appointment button, the user can go to the new appointment creation page and create a new appointment.

3.12. Viewing Profile

New Password

Confirm Password

SAVE

Two Factor Authentication

Add additional security to your account using two factor authentication.

You have not enabled two factor authentication.

When two factor authentication is enabled, you will be prompted for a secure, random token during authentication. You may retrieve this token from your phone's Google Authenticator application.

ENABLE

Browser Sessions

Manage and log out your active sessions on other browsers and devices.

If necessary, you may log out of all of your other browser sessions across all of your devices. Some of your recent sessions are listed below; however, this list may not be exhaustive. If you feel your account has been compromised, you should also update your password.


Windows - Firefox

172.68.50.202, [This device](#)

OS X - Opera

172.68.50.214, Last active 12 minutes ago

LOG OUT OTHER BROWSER SESSIONS

 Dashboard Support Tests Diagnosis Reports Documents Vaccines Visits

Jefferey Nitzsche

Profile

Profile Information

Update your account's profile information and email address.

Name

Jefferey Nitzsche

Email

maverick.greenholt@example.net

SAVE

Update Password

Ensure your account is using a long, random password to stay secure.

Current Password

New Password

Confirm Password

SAVE

active devices

exhaustive. If you feel your account has been compromised, you should also update your password.

Windows - Firefox

172.68.50.202, [This device](#)

OS X - Opera

172.68.50.214, Last active 12 minutes ago

LOG OUT OTHER BROWSER SESSIONS

Delete Account

Permanently delete your account.

Once your account is deleted, all of its resources and data will be permanently deleted. Before deleting your account, please download any data or information that you wish to retain.

DELETE ACCOUNT

Update general info and medical history

Below you may update the information provided during onboarding.

General Information

Bilkent ID: *

22808416

Birth Date: *

Aug 29, 1971

Contact help@bilheal.com to change your ID

Contact help@bilheal.com to change your birth date

Height (cm): *

152

Weight (kg): *

144

Gender: *

☐ Male

☒ Female

☐ Other

Height (cm): *

152

Weight (kg): *

144

Gender: *

☐ Male

☒ Female

☐ Other

Medical History

Please list any drug allergies:

Dicta id dolore numquam est quia. Sed dolor explicabo optio natus similique dolor exercitationem sit. Nulla eligendi ut illum sed reprehenderit voluptas autem illum.

Please list any operations:

Voluptatum suscipit possimus molestias eos. Hic quia quis perspiciatis sequi recusandae aut excepturi. Autem incidunt veritatis sit tempora et. Quo ullam similique qui non qui.

Have you ever had (Please check all that apply):

☐ Anemia

☐ Arthritis

☐ Asthma

☐ Bleeding Disorders

☐ Cancer

☐ Diabetes

☐ Digestive Problems

☐ Emotional Disorder

☐ Emphysema

☐ Epilepsy Seizures

☐ Fainting Spells

☐ Gallstones

☐ Gout

☐ Heart Attack

☐ Heart Disease

☐ Hepatitis

☐ High Blood Pressure

☐ Kidney Disease

☐ Liver Disease

☐ Lung Disease

☐ Neurological Disorders

☐ Rheumatic Fever

☐ Sleep Apnea

☐ Thyroid Problems

☐ Tuberculosis

☐ Ulcer Disease

☐ Ulcerative Colitis

☐ Venereal Disease

Please list your current medications:

Qui cum maxime non quisquam ipsa adipisci qui. Ullam saepe enim ad at nostrum rerum.

Please list other illnesses that is not on the list:

Eos id minima quia. Vel vel expedita et voluptatem suscipit. Accusamus et ur

Do you smoke? *

☐ Yes

☒ No

SUBMIT

Users can go to the profile menu by clicking on the user name and selecting the view profile from the drop-down menu. On this page, the user can update the user account information such as name, email, and password. He/she can set the status of two factor authentication providing security measures as active or inactive. The user can terminate sessions that have remained open in browsers. The user can delete his account. Users can update general and health information.

3.13. Using the Appointment System

The screenshot displays a web application interface for a health center. At the top, a dark blue navigation bar contains a logo with a red cross and the word "HEALTH" on the left, and a series of menu items: "Dashboard", "Support", "Tests", "Diagnosis", "Reports", "Documents", "Vaccines", and "Visits" in the center. On the right side of the navigation bar, the user's name "Jefferey Nitzsche" is displayed with a dropdown arrow. Below the navigation bar, the main content area has a white background. On the left side of this area, the word "Appointment" is displayed in bold, followed by the subtitle "Request and view your appointments to the health center." On the right side of this area, there is a dark blue button labeled "REQUEST AN APPOINTMENT". The central part of the page features a light gray rectangular box containing a form. The form has four main sections: "Select Department:" with a dropdown menu showing "Cardiology"; "Select Doctor:" with a dropdown menu showing "Guy Cummings"; "Appointment Date:" with a date picker showing "May 12, 2022"; and "Description:" with a text input field containing "General heart check". Below these fields is a label "Timeslot id" followed by a horizontal line. At the bottom right of the form box is a red button labeled "Save".

The user can go to his own appointments page by clicking on his name at the top right and selecting appointments from the options. The user can learn information about appointments on the Appointment page. Can cancel the Appointment by clicking the trash icon. The user can create new appointments using the Create Appointment button.

3.14. Viewing and Paying Invoices

HEALTH

Dashboard Support Tests Diagnosis Reports Documents Vaccines Visits Jeffrey Nitzsche

Invoices

Your relevant bill payment details.

CANCEL THE PAYMENT

Payment Amount:

7355

Service Received:

Blanditiis voluptas exercitationem veritatis et.

Confirm the Payment

The user can go to his invoice page by clicking on his name at the top right and selecting invoices from the options. You can see the invoice price, status, and service received on the Invoice page. You can go to the payment page by pressing the credit card button on the right. The user can confirm or cancel the payment using the buttons on the payment page.

4. BUILD INSTRUCTIONS

4.1. System Requirements

Before using the repository, please make sure you have the following installed:

- PHP 8.1
- Composer 2
- A web server (NGINX/Apache)
- MySQL 8
- Node 17
- NPM 8

4.2. Installation

Clone the GitHub repository:

```
git clone https://github.com/thecrazybob/cs319-project.git
```

Install Composer's dependencies:

```
composer install
```

Install NPM's dependencies:

```
npm install
```

Copy .env.example to .env:

```
cp .env.example .env
```

Generate encryption key:

```
php artisan key:generate
```

Next, create a database in your local MySQL and then fill the following values in .env

```
DB_DATABASE=  
DB_USERNAME=  
DB_PASSWORD=
```

Run the demo migrations & seeders:

```
php artisan migrate:fresh --seed
```

You should be able to see the website in your browser!

5. WORK ALLOCATION

5.1. Abdullah Riaz

Abdullah handled most of the staff dashboard. He created the roles and permissions for the staff dashboard. He also created and customized the views(metrics, forms, validations) of the staff dashboard. He worked in the preparation of all reports and the preparation of the presentation.

5.2. Ahmet Faruk Ulutaş

Ahmet made the invoices page, payment gateway and all related implementations. He worked in the preparation of all reports and the preparation of the presentation. Debug the parts that do not work in the project and fix the errors found.

5.3. Dilay Yiğit

Dilay worked on the onboarding form. She researched how to create filament tables/forms and middleware. She created the initial registration form. She researched migration and seeder issues to help patient's module parts. She worked in the preparation of all reports and the preparation of the presentation.

5.4. Mohammed Sohail

Mohammed worked on the deployment of the website to an Ubuntu server. He also created the structure of the website by creating classes, models, and base views. He designed the views using TailwindCSS. He also acted as the project manager and managed the tasks. He worked in the preparation of all reports and the preparation of the presentation.

5.5. Mostafa Khaled A. Mohamed Higazy

Mostafa worked on the forms of the patient modules including tests, diagnoses, reports, documents, vaccines, appointments, announcements and visits. He created livewire components for all of the views so that the views can be presented as dynamic interfaces. He worked in the preparation of all reports and the preparation of the presentation.