

E1800189 & E1800193 BIT302

Assignment 3

by NI PUTU ZARA ATHIFA WIJANA -

Submission date: 23-Dec-2021 07:32PM (UTC+0800)

Submission ID: 1735262168

File name: 16141_NI_PUTU_ZARA_ATHIFA_WIJANA_-
_E1800189_E1800193_BIT302_Assignment_3_222268_875608577.docx (8.96M)

Word count: 7411

Character count: 40227

Assignment Cover Sheet

Student Information (For group assignment, please state names of all members)		Grade/Marks
Name	ID	
Ni Putu Zara Athifa Wijana	E1800193	
Muthia Kartika Putri	E1800189	

Module/Subject Information		Office Acknowledgement
Module/Subject Code	BIT 302	
Module/Subject Name	Software Engineering	
Lecturer/Tutor/Facilitator	Seetha Letchumi	
Due Date	December 24, 2021	
Assignment Title/Topic	Assignment 2	
Intake (where applicable)		
Word Count	7412	

Declaration

- I/We have read and understood the Programme Handbook that explains on **plagiarism**, and I/we testify that, unless otherwise acknowledged, the work submitted herein is entirely my/our own.
- I/We declare that no part of this assignment has been written for me/us by any other person(s) except where such collaboration has been authorized by the lecturer concerned.
- I/We authorize the University to test any work submitted by me/us, using text comparison software, for instances of plagiarism. I/We understand this will involve the University or its contractors copying my/our work and storing it on a database to be used in future to test work submitted by others.

Note: 1) The attachment of this statement on any electronically submitted assignments will be deemed to have the same authority as a signed statement.

2) The Group Leader signs the declaration on behalf of all members.

Signature: Ni Putu Zara Athifa Wijana	Date: December 23, 2021
E-mail: zaraathifaa@gmail.com	

	Student acknowledge feedback/comments
Grader's signature	
Date: December 23, 2021	Student's signature: Zara Athifa Wijana Date: December 23, 2021

Note:

- 1) A soft and hard copy of the assignment shall be submitted.
 - 2) The signed copy of the assignment cover sheet shall be retained by the marker.
 - 3) If the Turnitin report is required, students have to submit it with the assignment. However, departments may allow students up to **THREE (3)** working days after submission of the assignment to submit the Turnitin report. The assignment shall only be marked upon the submission of the Turnitin report.

*Use additional sheets if required

Assignment 3

BIT302

MY Private Vaccine: A Web Based Private Covid-19 Vaccination System

Design and Testing Document of Prototype 2



Ni Putu Zara Athifa Wijana (E1800193)

zaraathifaa@gmail.com

as Team Leader

Muthia Kartika Putri (E1800189)

muthiakartika2@gmail.com

as Team Member

2021

Table of Contents

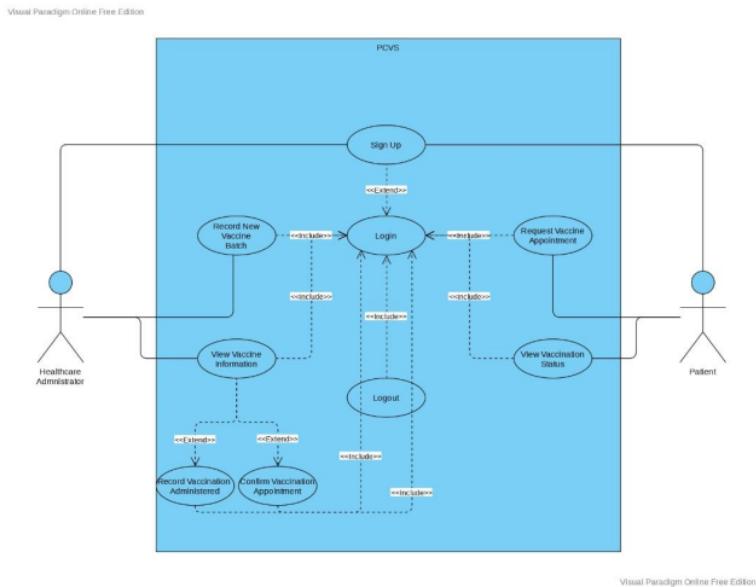
I.	Follow Up.....	1
A.	Analysis of Design or Documentation Updates	1
1.	1 Use Case Diagram.....	1
2.	Class Diagram.....	2
3.	Expanded Use Case, SSD and Contracts	2
4.	Database Dictionary.....	14
5.	ERD.....	16
6.	Wireframe	17
B.	Problem Faced in Iteration 1	23
II.	Iteration II.....	23
A.	Use Case Identification.....	23
B.	Screenshots	24
C.	Test Objectives	35
D.	Test Plan	36
E.	Test Results.....	38
1.	1 Unit Testing	38
2.	2 Integration Testing.....	56
3.	3 System Testing.....	65
F.	Test Analysis Report	78
III.	Review.....	78
A.	Gantt Chart Finale	78
B.	Git Hub	79
C.	Review	81
IV.	References	83

I. Follow Up

A. Analysis of Design or Documentation Updates

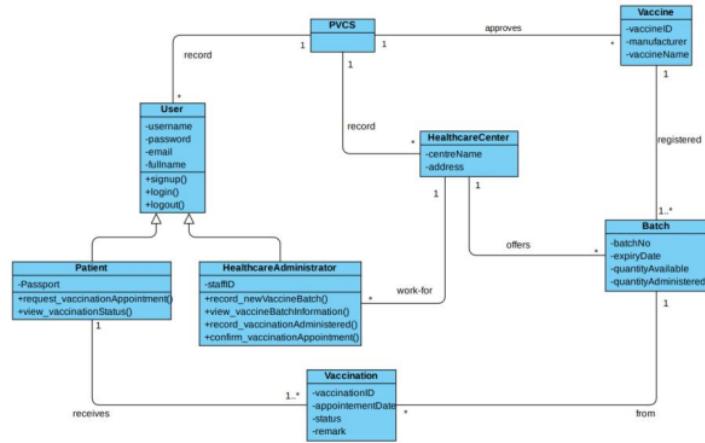
We will go over some of the modifications that have occurred in previously generated documents in the following sections.

1. Use Case Diagram



As stated during the presentation for iteration 1, the use case associated to the two prior assignment documents contained a mistake due to human error (task 1 and task 2). In addition, we decided to add one new use case, bringing the total number of use cases from eight to nine. In iteration 1, three use cases were developed, and the other use cases will be developed in iteration 2. The use cases developed for current iteration are Record New Vaccine Batch, View Vaccine Information, Confirm Vaccination Appointment, Record Vaccination Administered, Request Vaccination Appointment, and View Vaccination Status, which is a new use case. The last two use cases stated are for patients, whereas the others are for healthcare administrators.

2. Class Diagram



The class diagram has changed slightly as a result of the addition of a new use case for the patient. The class diagram in the image above has been updated. The addition of View Vaccination Status is the change that takes place.

3. Expanded Use Case, SSD and Contracts

For the use cases we developed in this iteration, additional use cases, and modifications to the use cases from the prior iteration, below we will describe the expanded use case, SSD, and contracts. Please kindly refer to the identifiers in the form of the words:

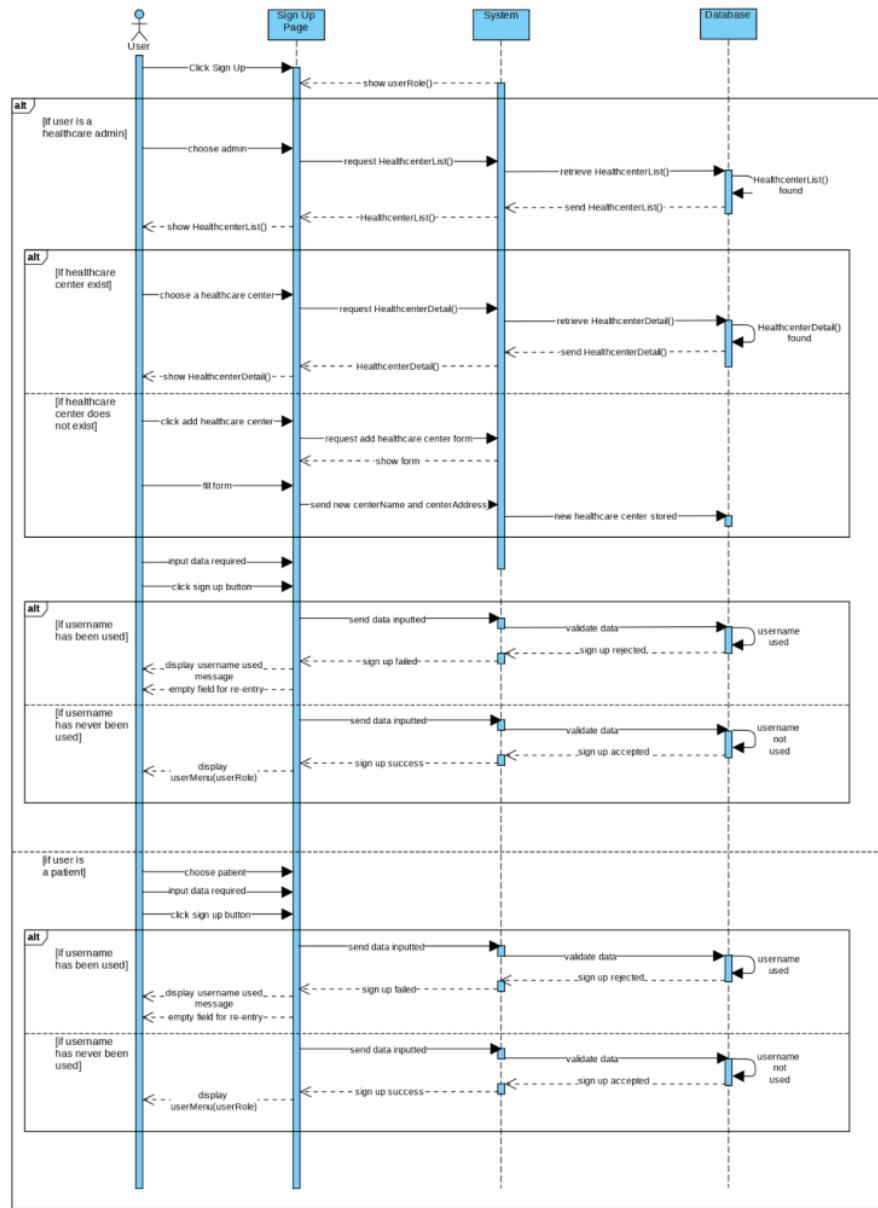
- Developed: the developed use case for current iteration
- Updated: the updated use case from the previous iteration
- New: the new use case added

inside brackets at the end of the name of the use case that are under discussion.

Student Name & ID: Ni Putu Zara Athifa Wijana & E1800193

1) Sign Up (updated)

- SSD



▪ Contract

Cross References	Sign Up for Patient
Operation	Signup(username, password, email, fullName, ICPassport)
Responsible	To allow potential patient to sign up

Pre-conditions	<ul style="list-style-type: none"> - A valid and active email exist - ICPassport registered - Unused username
Post-conditions	<ul style="list-style-type: none"> - Patient account created - Directed to patient menu page <p>If username used Then clear field for re-entry</p>
Cross References	Sign Up for Healthcare Administrator
Operation	Signup(username, password, email, fullName, staffID)
Responsible	To allow potential healthcare administrator to sign up
Pre-conditions	<ul style="list-style-type: none"> - A valid and active email exist - Registered to a healthcare centre as a staff <p>If a healthcare centre is not listed then add centerName and centerAddress</p>
Post-conditions	<ul style="list-style-type: none"> - Healthcare administrator account created - Staff ID automatically generated - Directed to healthcare administrator menu page <p>If username used Then clear field for re-entry</p>

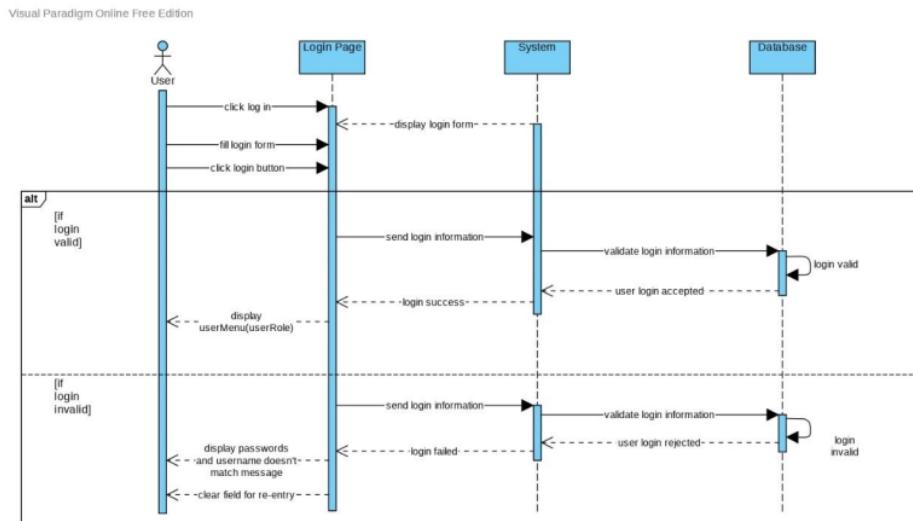
2) Login (updated)

- Expanded Use Case

Use Case 2	Login
Goal	Allow existing PCVS users (patients and healthcare administrators) to log in.
Actor	<ul style="list-style-type: none"> - Primary User (patients and healthcare administrator) - Secondary
Trigger	A existing user wants to sign in to the PCVS
Typical Course of Events	

Actor Action	System Response
1. this use case begins when a user (patients or healthcare administrators) wishes to sign in to PCVS.	
2. The user (patients and healthcare providers) inputs their login and password.	According to the user's role, the system will route them to their dashboard.
3. The user (patients and healthcare administrator) enters the username and password	The system will redirect the user to their dashboard according to their role
1 Alternative Course of Events	
3a: If the username and password does not match, the system will clear field for re-entry	

▪ SSD



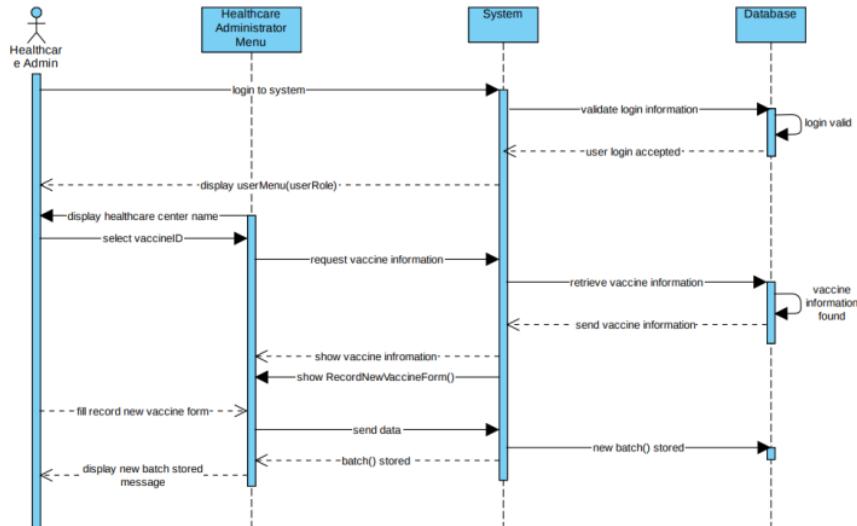
▪ Contract

Cross References	Login
-------------------------	--------------

Operation	Login(username, password)
Responsible	allow the user to access menu and feature according to the user's role
Pre-conditions	<ul style="list-style-type: none"> - Username and password should valid
Post-conditions	<p>If login valid</p> <ul style="list-style-type: none"> - Directed to healthcare administrator/patient menu page - Login session started <p>Else</p> <ul style="list-style-type: none"> - Clear both field for re-entry - Login session pending

3) Record New Vaccine Batch (developed)

■ SSD



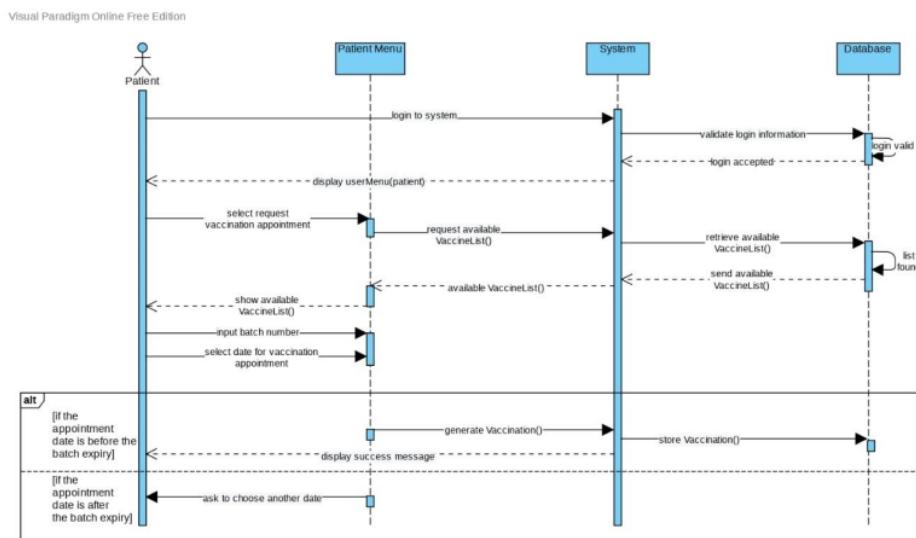
■ Contract

Cross References	Record new vaccine batch
Operation	Login(username, password)
Responsible	allow healthcare administrator to access menu and feature
Pre-conditions	<ul style="list-style-type: none"> - Username and password should valid

Post-conditions	<ul style="list-style-type: none"> - Directed to healthcare administrator menu page - Login session started
Cross References	Record new vaccine batch
Operation	RecordNewVaccineBatch()
Responsible	Allow healthcare administrator to record new vaccine batch
Pre-conditions	<ul style="list-style-type: none"> - New vaccine batch number, expiry date and the quantity of doses should available
Post-conditions	<ul style="list-style-type: none"> - New batch of vaccine recorded - Display success message

4) Request Vaccination Appointment (updated & developed)

- SSD



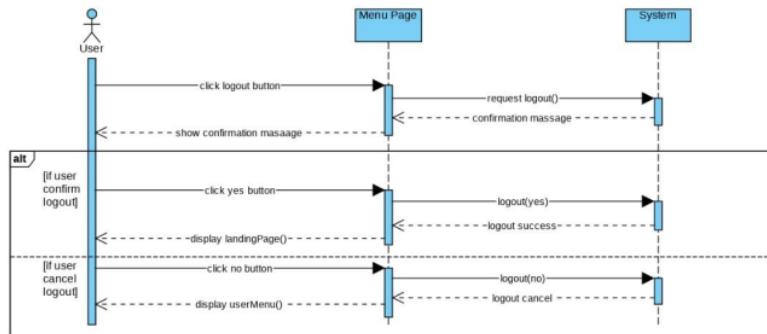
- Contract

Cross References	Request vaccination appointment
Operation	Login(username, password)
Responsible	allow patient to access menu and feature
Pre-conditions	<ul style="list-style-type: none"> - Username and password should valid

Post-conditions	<ul style="list-style-type: none"> - Directed to patient menu page - Login session started
Cross References	Request vaccine appointment
Operation	RequestVaccinationAppointment()
Responsible	allow patient to request vaccination date and healthcare centre
Pre-conditions	<ul style="list-style-type: none"> - Patient fullName displayed - Batch number selected - Date selected <p>If date selected after batch expiry date Then patient select another date</p>
Post-conditions	<ul style="list-style-type: none"> - vaccinationID generated - display success message

5) Logout

- SSD



- Contract

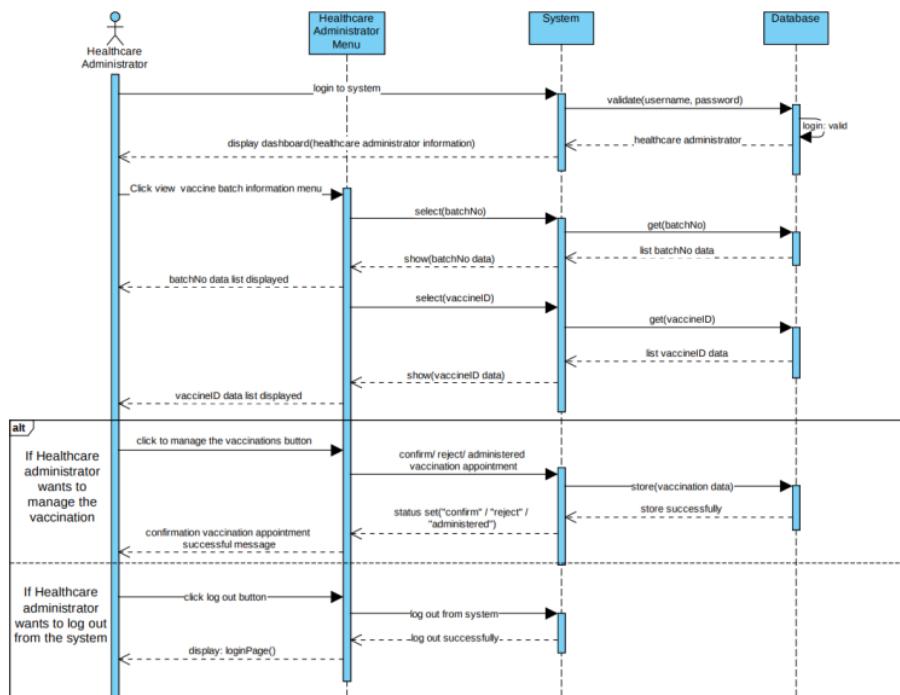
Cross References	Logout
Operation	Logout()
Responsible	allow the user to logout from the system
Pre-conditions	<ul style="list-style-type: none"> - Session started - Click logout button

Post-conditions	<p>If logout(yes)</p> <ul style="list-style-type: none"> - Click yes on the confirmation message - Login session ended <p>else</p> <ul style="list-style-type: none"> - Click no on the confirmation message - Back to user menu
-----------------	--

Student Name & ID: Muthia Kartika Putri & E1800189

6) **View Vaccine Batch Information** (developed & updated)

■ SSD



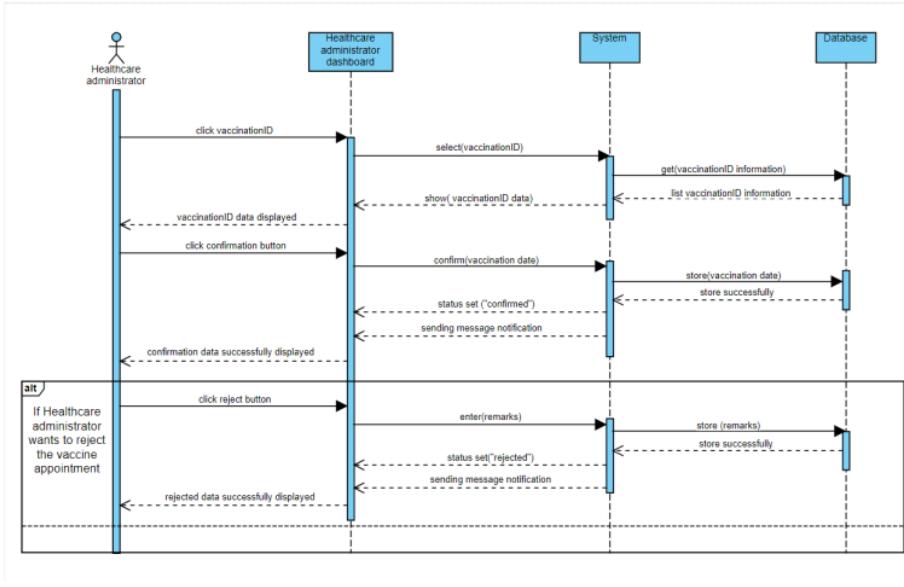
■ Contract

Cross References	View Vaccine Batch Information
Operation	Login(username, password)
Responsible	To permit the healthcare administrator to access the healthcare administrator's dashboard.

Pre-conditions	<ul style="list-style-type: none"> - Healthcare administrator object must be available - Username and Password must be available
Post-conditions	<ul style="list-style-type: none"> - Username and Password is matched or valid - Display healthcare administrator dashboard
Cross References	View Vaccine Batch Information
Operation	View Vaccine Batch
Responsible	To view the vaccine batch information data
Pre-conditions	<ul style="list-style-type: none"> - Healthcare administrator object must be available - Vaccine batch has been successfully created
Post-conditions	<ul style="list-style-type: none"> - Batch vaccine data list has been found ¹ - Batch vaccine data list is correlated with view vaccine batch information menu (association formation)
Cross References	View Vaccine Batch Information
Operation	Manage vaccination appointment
Responsible	To manage vaccination appointment
Pre-conditions	<ul style="list-style-type: none"> - Healthcare administrator object must be available - Vaccination appointment data must be available
Post-conditions	<ul style="list-style-type: none"> - Vaccination appointment status is set to "confirm" or "reject" or "administered" - Sending confirm or reject notification message if the status are confirm or reject - Display successful notification
Cross References	View Vaccine Batch Information
Operation	Logout from system
Responsible	To logout or exit from the system
Pre-conditions	<ul style="list-style-type: none"> - Healthcare administrator object must be available - Confirm to cancel logout
Post-conditions	<ul style="list-style-type: none"> - Redirect to login page

7) **Confirm Vaccination Appointment** (developed)

- SSD

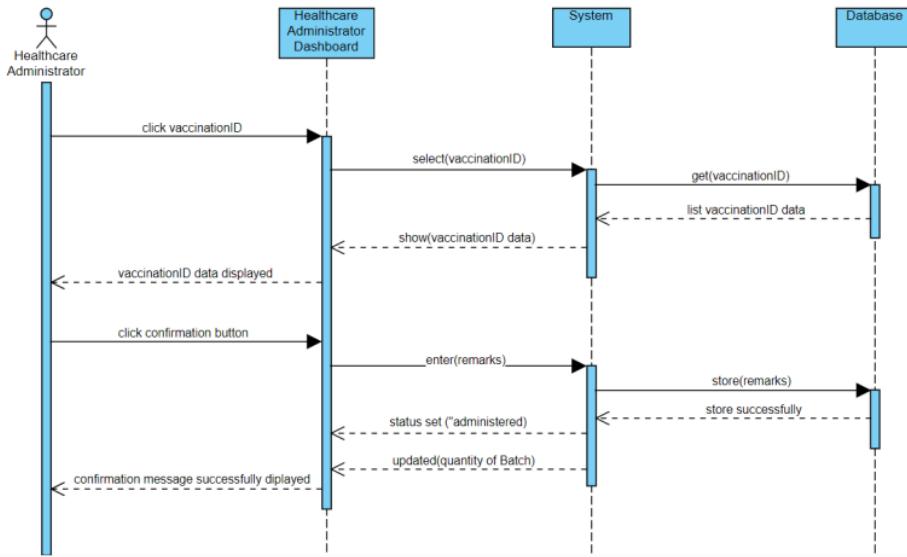


- Contract

Cross References	Confirm Vaccination Appointment
Operation	Confirm vaccination
Responsible	To permit the healthcare administrator to confirm the vaccination appointment
Pre-conditions	<ul style="list-style-type: none"> - Healthcare administrator object must be available - vaccinationID must be available
Post-conditions	<ul style="list-style-type: none"> - New status set to “confirm” - Sending a confirmation message - Display confirmation successful notification message <p>IF Healthcare administrator reject the appointment</p> <ul style="list-style-type: none"> - New status set to “rejected” - Sending rejected message - Display rejected notification message

8) **Record Vaccination Administered** (developed)

- SSD



▪ Contract

Cross References	Record Vaccination Administered
Operation	Record vaccination
Responsible	To record the vaccination that has been administered.
Pre-conditions	<ul style="list-style-type: none"> - Healthcare administrator object must be available - vaccinationID must be available
Post-conditions	<ul style="list-style-type: none"> - New status set to "administered" - New remarks entered - Updating the quantity of Batch - Display confirmation successful message

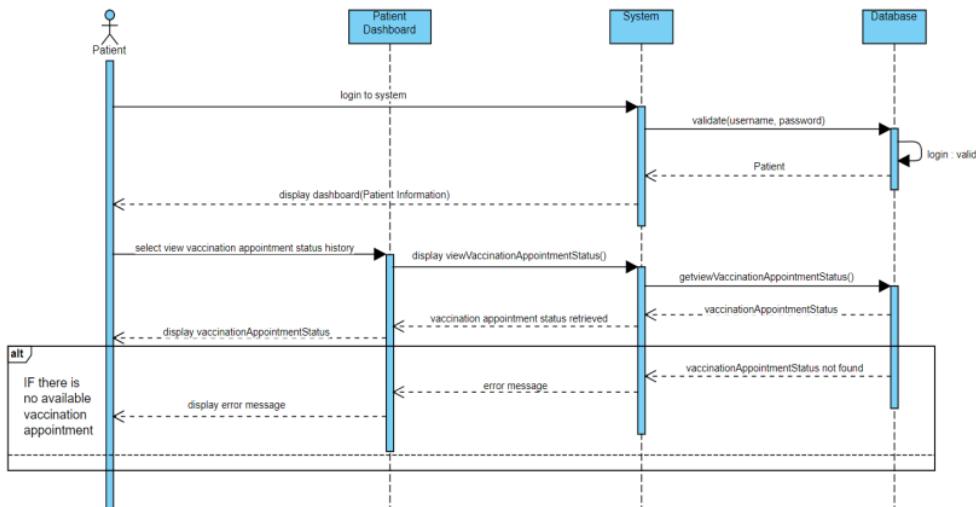
9) View Vaccination Status (new & developed)

▪ Expanded Use Case

Use Case 9	View Vaccination Status	
Goal	To allow a patient to check his vaccination appointment status.	
Actor	Primary	Patient

Secondary	-
1 Trigger	A patient wants to view his/her vaccination appointment status.
Typical Course of Events	
Actor Action	System Response
1. This use case begins when a Patient wants to check the status of his or her vaccination appointment	
2. The patient logs in by entering a username and password	The patient's full name is shown.
3. The patient selects to view status of available vaccination appointment.	The status of the vaccination appointment is shown.
Alternative Course of Events	
3a: If there is no available vaccination appointment, an error message is displayed	

▪ SSD



▪ Contract

1 Cross References	View Vaccination Status
Operation	Login(username, password)

Responsible	To permit the patient to access the patient's dashboard.
Pre-conditions	<ul style="list-style-type: none"> - Patient object must be available - Username and Password must be available
Post-conditions	<ul style="list-style-type: none"> - Username and Password is matched or valid - Display patient dashboard
Cross References	View Vaccination Status
Operation	View Vaccination Status
Responsible	To view the vaccine appointment status history
Pre-conditions	<ul style="list-style-type: none"> - Patient object must be available
Post-conditions	<ul style="list-style-type: none"> - Vaccine appointment status has been found - Vaccination appointment status data list is correlated with view vaccination appointment status menu (association formation) - Display vaccination appointment status <p>If vaccination appointment status is unavailable</p> <ul style="list-style-type: none"> - Vaccine appointment status not found - Display error message

4. Database Dictionary

There are slight modifications to the database dictionary, which is adding a new field in database called ‘other’ as a trigger to add new healthcare center; we incorporate the other database dictionary that was previously provided in the submitted documents as references.

³

1) User Table

Field Name	Data Type	Field	Description	Example
Id	Int	5	Administrator ID	1
icpassport	Varchar	15	Patient ICPassport	JPY5171014
centreName	Varchar	30	Centre name of healthcare centre	MSU Medical Centre
username	Varchar	15	Username of user	uzumaki
password	Varchar	15	Password of user	naruto123

email	Varchar	30	Email of user	narutouzumaki@gmail.com
fullname	Varchar	30	Fullscreen of user	Naruto Uzumaki
role	enum		Role of user	Administrator

2) Healthcare Center Table

Field Name	Data Type	Field	Description	Example
id	Int	11	Healthcare center ID	1
centreName	Varchar	30	Centre name of healthcare center	MSU Medical Centre
address	Varchar	30	Address of healthcare center	Kuala Lumpur
other	Varchar	15	Trigger for adding new healthcare center	-

3) Vaccine Table

Field Name	Data Type	Field	Description	Example
vaccineId	Int	5	Vaccine ID	1
manufacturer	Varchar	15	Manufacturer of vaccine	Coronavac
vaccine_name	Varchar	15	Name of vaccine	Sinovac

4) Batch Table

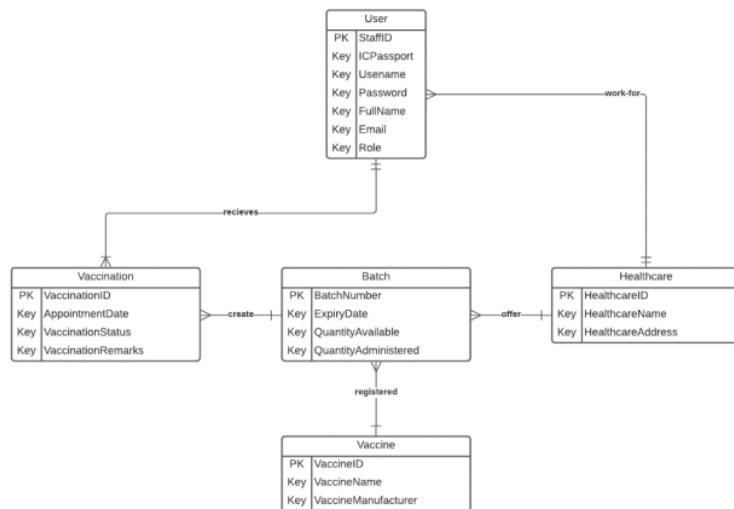
Field Name	Data Type	Field	Description	Example
batchNo	Varchar	15	Batch number of vaccine	87Y679
expiryDate	date		Expiry date of batch	12/12/2021
quantityAvailable	Int	5	Quantity available of batch	100
quantityAdministered	Int	5	Quantity administered of batch	50
vaccineID	Int	11	Vaccine ID	1
centreName	Varchar	30	Centre name of healthcare centre	MSU Medical Centre

5) Vaccination Table

Field Name	Data Type	Field	Description	Example
vaccinationId	Int	5	Vaccination id	1
batchNo	Varchar	15	Batch number of vaccine	87Y679
appointmentDate	date		Appointment date of vaccination	12/12/2021
status	Varchar	15	Status of vaccination	Pending
remarks	Varchar	50	Remark of vaccination	This vaccine has not been accepted yet
fullname	Varchar	30	Full name of user	Naruto Uzumaki

5. ERD

The ERD has not been altered; but, we have included the ERD that was previously provided in the submitted documents as a reference.



6. Wireframe

Due to the addition of one use case and updating the sign up use case, we also add one image for the view vaccination status wireframe and two image for the sign up use case, other than that the wireframe stays the same. We have included the wireframe that was originally supplied in the submitted materials as a reference.

The image displays two wireframes for a 'create account' registration page, both set against a dark blue background. The top wireframe contains the following fields: 'choose role/option' (with a dropdown arrow), 'username', 'password', 'email address', 'full name', and 'passport'. Below these fields is a large blue rectangular button labeled 'register'. At the bottom of the form, there is a small link 'already have account? login'. The bottom wireframe is identical to the top one, except it includes an additional field 'choose healthcare' positioned above the 'register' button.

create account

choose role/healthcare admin

username

password

email address

full name

other

add

register

already have account? [login](#)

This screenshot shows a 'create account' form. It includes fields for 'choose role/healthcare admin', 'username', 'password', 'email address', 'full name', and 'other'. There is a blue 'add' button and a large blue 'register' button at the bottom. A link for existing users to 'login' is also present.

add healthcare

center name

address

back **add**

This screenshot shows an 'add healthcare' form. It has fields for 'center name' and 'address', along with a 'back' button and a green 'add' button.

welcome back!

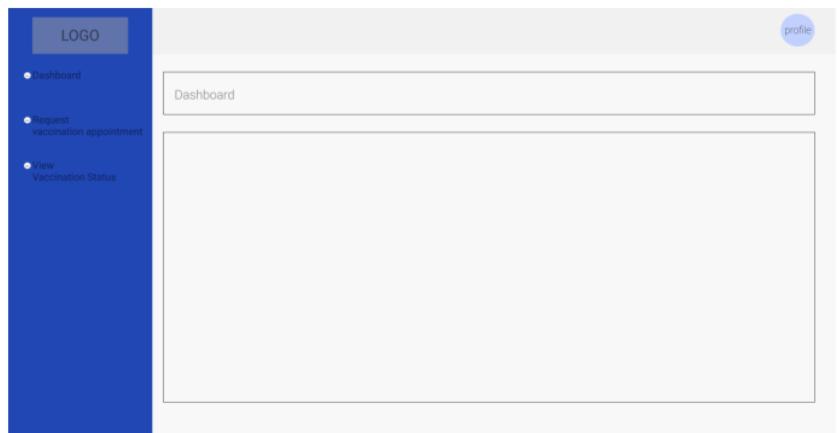
username

password

login

Forgot account?

This screenshot shows a 'welcome back!' login form. It features fields for 'username' and 'password', a large blue 'login' button, and a link for users who have 'Forgot account?'.



This screen shows the 'Request vaccination appointment' section. It includes a search bar with placeholder text 'search'. Below it is a table with columns: batch no, center name, center address, manufacturer, vaccine name, exp date, and quantity available. Underneath the table is a 'request form' section with fields for 'remarks' and 'appointment date (dd/mm/yyyy)'. At the bottom are two small buttons.

batch no	center name	center address	manufacturer	vaccine name	exp date	quantity available

LOGO

- Dashboard
- Request vaccination appointment
- View Vaccination Status

View Vaccination Status

profile

name	batch number	center name	address	vaccine name	appointment date	status	remarks

LOGO

- Dashboard
- Record new vaccine batch
- View vaccination information

Dashboard

profile

pending administered confirmed rejected

LOGO

- Dashboard
- Record new vaccine batch
- View vaccination information

Record new vaccine batch

profile

record new batch

Batch no Expiry date Quantity available Option

The image displays two screenshots of a mobile application interface, likely for a healthcare provider, showing different sections of the application.

Screenshot 1: Record new vaccine batch

- Left Panel (Navigation Bar):**
 - LOGO
 - Dashboard
 - Record new vaccine batch
 - View vaccination information
- Right Panel:**
 - Record new vaccine batch
 - Search bar: search
 - Table: vaccine ID, manufacturer, vaccine name
 - Form: new batch form

vaccine id	V
batch no	
expiry date (dd/mm/yyyy)	
qty	blue green

Screenshot 2: View vaccination information

- Left Panel (Navigation Bar):**
 - LOGO
 - Dashboard
 - Record new vaccine batch
 - View vaccination information
- Right Panel:**
 - View vaccination information
 - Search bar: search
 - Table: batch number, vaccine name, manufacturer
 - Form: choose batch

batch number	V
choose	
 - Table: vaccination details

batch no	vaccination ID	appointment date	patient name	center name	vaccine name	pending	exp date	qty available	qty administered	status	option
										red	red
										green	green

LOGO

- Dashboard
- Record new vaccine batch
- View vaccination information

View vaccination information - confirm/reject

search

batch no	patient name	ICPassport	expiry date	manufacturer	vaccine name

cancel accept reject

LOGO

- Dashboard
- Record new vaccine batch
- View vaccination information

View vaccination information - reject

search

batch no	patient name	ICPassport	expiry date	manufacturer	vaccine name

enter remarks
remarks

cancel accept

LOGO

- Dashboard
- Record new vaccine batch
- View vaccination information

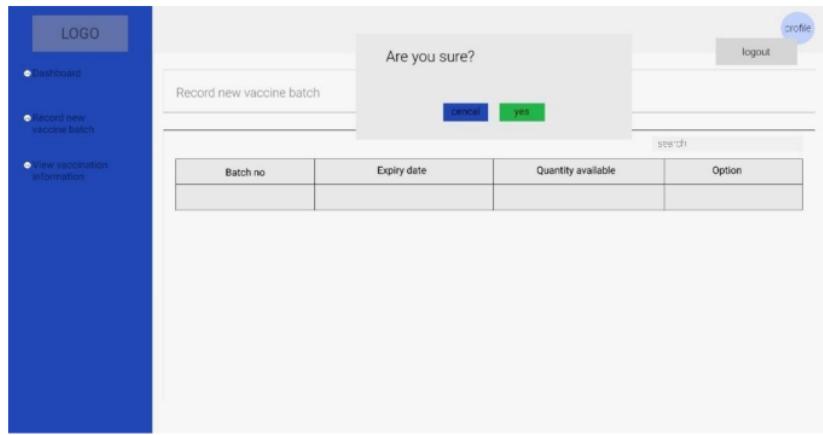
View vaccination information - administered

search

batch no	patient name	ICPassport	expiry date	manufacturer	vaccine name

enter remarks
remarks

cancel accept



B. Problem Faced in Iteration 1

We did not encounter or face any severe issues in iteration one development. The biggest issue we have is time management because we have various other activities and jobs to complete; nevertheless, we do not have any other issues such as teamwork, communication, or other issues that we are unable to resolve and have serious damage to the project.

II. Iteration II

A. Use Case Identification

We already developed three use cases for the previous, all of which are the responsibility of Ni Putu Zara Athifa Wijana. The remaining 6 use cases were developed in this document; the majority of the use cases for this iteration were developed by Muthia Kartika Putri; for additional information, please refer to the table below.

- Iteration 1

No.	Use Case	Develop by
1.	Sign Up	Ni Putu Zara Athifa Wijana
2.	Login	Ni Putu Zara Athifa Wijana
3.	Logout	Ni Putu Zara Athifa Wijana

- Iteration 2

No.	Use Case	Develop by

1.	Request vaccine appointment	Ni Putu Zara Athifa Wijana
2.	Record new vaccine batch	Ni Putu Zara Athifa Wijana
3.	View vaccine information	Muthia Kartika Putri
4.	Record vaccination administered	Muthia Kartika Putri
5.	Confirm vaccination appointment	Muthia Kartika Putri
6.	View vaccination status	Muthia Kartika Putri

B. Screenshots

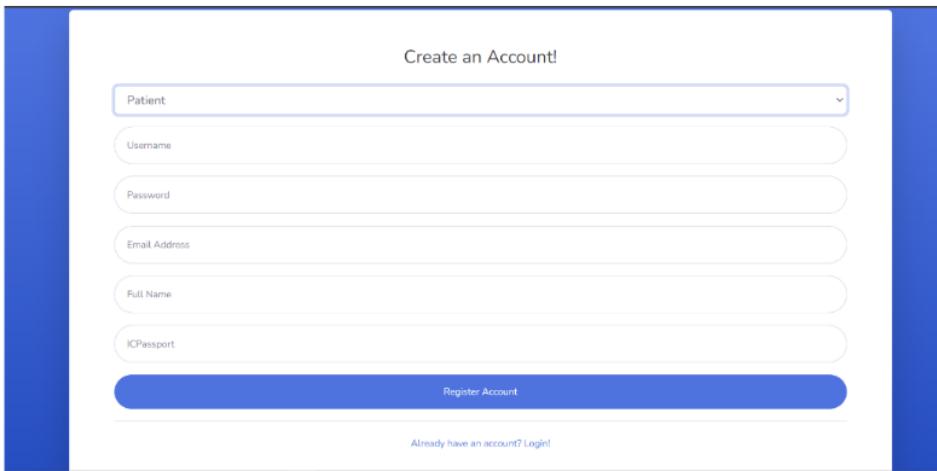
Hereby we show screenshots of our website's sample of various cases

1) Sign Up/Registration

The screenshot shows a registration form titled "Create an Account!". It contains five input fields: "Position", "Username", "Password", "Email Address", and "Full Name". Below these fields is a large blue rectangular button labeled "Register Account". At the bottom of the form, there is a small, faint link that reads "Already have an account? Login!".

- If user is a patient

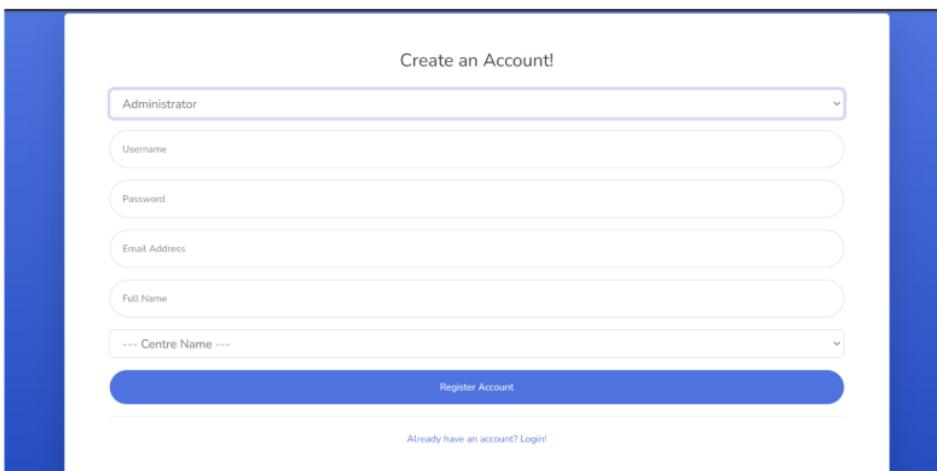
User then choose role, if user is a patient, the ICPassport field shown



The screenshot shows a registration form titled "Create an Account!". It includes fields for Patient information: Username, Password, Email Address, Full Name, and ICPassport. A dropdown menu at the top left is set to "Patient". At the bottom is a blue "Register Account" button.

- If user is a healthcare administrator

User then choose role, if user is a healthcare admin, the center name field shown, admin then choose a healthcare to assign



The screenshot shows a registration form titled "Create an Account!". It includes fields for Administrator information: Username, Password, Email Address, Full Name, and a dropdown menu for "Centre Name" which contains the placeholder "---- Centre Name ----". A dropdown menu at the top left is set to "Administrator". At the bottom is a blue "Register Account" button.

When healthcare admin choose to add healthcare center

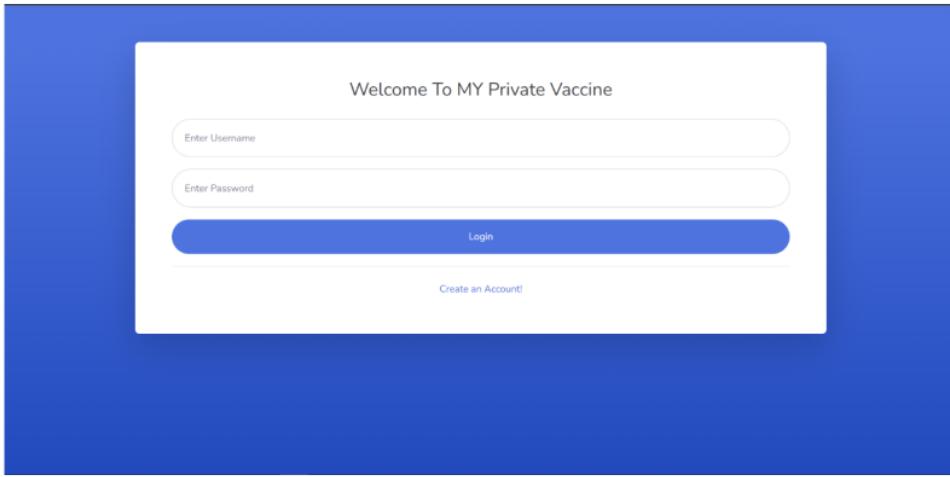
The screenshot shows a 'Create an Account!' form. At the top, it says 'Create an Account!'. Below that is a dropdown menu set to 'Administrator'. There are four input fields: 'Username', 'Password', 'Email Address', and 'Full Name'. A dropdown menu below 'Full Name' is set to 'Other'. A blue button labeled 'Add Healthcare' is visible. At the bottom is a large blue button labeled 'Register Account'. Below the main form, a link says 'Already have an account? Login'.

Healthcare administrator click add button

The screenshot shows a simplified 'Create an Account!' form. It has two input fields: 'Centre Name' and 'Address'. At the bottom are two buttons: a blue 'Back' button and a green 'Add New Healthcare' button.

2) Login

This is the login page

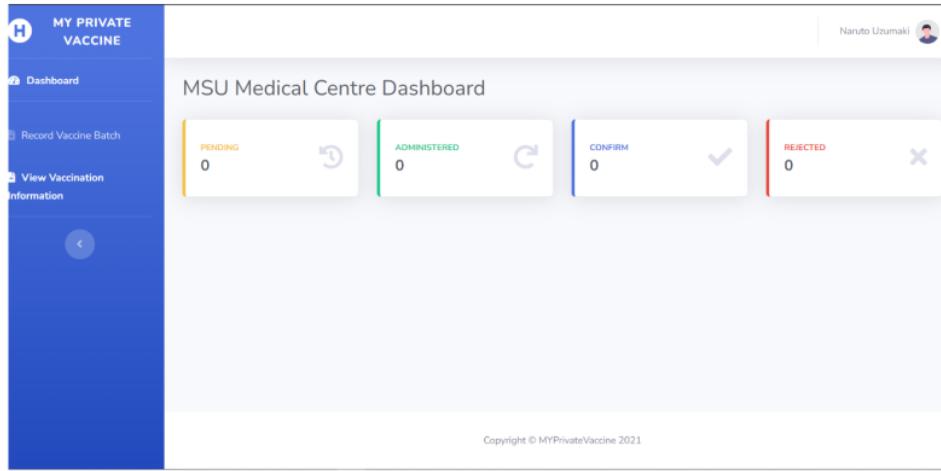


When patient enter match password and username, display menu based on their role

- If user is a patient

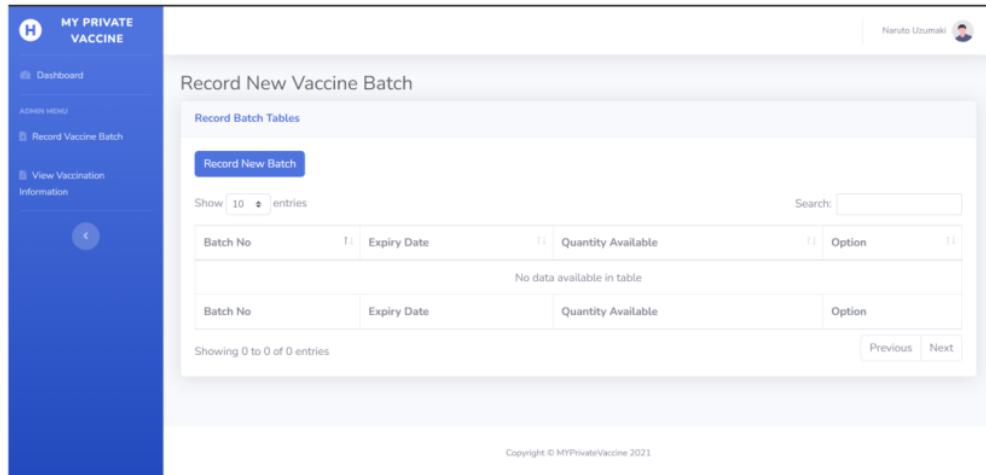
A screenshot of a patient dashboard. On the left is a sidebar with a logo and the text "MY PRIVATE VACCINE". It contains three menu items: "Dashboard", "Request Vaccination Appointment", and "View Vaccination". The main content area is titled "Dashboard" and displays the text "Copyright © MYPrivateVaccine2021". In the top right corner, there is a user profile icon labeled "Uchiha Sasuke".

- If user is a healthcare administrator



3) Record New Vaccine Batch

Below is the display when healthcare administrator click the record new vaccine batch. It still has no data because healthcare administrator did not record new vaccine batch yet



Record New Vaccine Batch

Record Batch Tables

Vaccine ID	Manufacturer	Vaccine Name
1	Sinovac Biotech	Sinovac
2	ModernaTX, Inc.	Moderna
3	Pfizer, Inc. and	Pfizer
4	Oxford	Astrazeneca
5	Janssen Pharmac	Jhonsen & Jhons

Showing 1 to 5 of 5 entries

Form Input

Vaccine ID	1
Batch No	512710P
Exp Date	01/06/2022
Qty Available	1000

Back **Submit**

Copyright © MYPrivateVaccine 2021

Record New Vaccine Batch

Data has successfully saved!

Record Batch Tables

Record New Batch

Batch No	Expiry Date	Quantity Available	Option
512710P	2022-06-01	1000	Delete
Batch No	Expiry Date	Quantity Available	Option

Showing 1 to 1 of 1 entries

Copyright © MYPrivateVaccine 2021

4) Request Vaccination Appointment

MY PRIVATE VACCINE

Dashboard

PATIENT MENU

- Request Vaccination Appointment
- View Vaccination

Form

To allow a patient to request a vaccination appointment.

Available Vaccine Table

Batch	Centre Name	Address	Manufacturer	Vaccine	Exp Date	Qty
512710P	MSU Medical Centre	Selangor	Sinovac Biotech	Sinovac	2022-06-01	1000

Showing 1 to 1 of 1 entries

Search:

Batch No:

Appointment Date:

Previous Next

View Vaccination

Show 10 entries

Search:

Batch	Centre Name	Address	Manufacturer	Vaccine	Exp Date	Qty
512710P	MSU Medical Centre	Selangor	Sinovac Biotech	Sinovac	2022-06-01	1000

Showing 1 to 1 of 1 entries

Batch No:

Appointment Date:

Back

Copyright © MYPrivateVaccine 2021

MY PRIVATE VACCINE

Dashboard

PATIENT MENU

- Request Vaccination Appointment
- View Vaccination

Tables

To allow a Patient to view the vaccination status.

DataTables

Data has successfully saved!

Name	Batch	Centre Name	Address	Vaccine	Appointment	Status	Remarks
Uchiha Sasuke	512710P	MSU Medical Centre	Selangor	Sinovac	2021-12-15	Pending	

Showing 1 to 1 of 1 entries

Search:

Previous Next

Copyright © MYPrivateVaccine 2021

5) View Vaccine Information

Below is the display when healthcare administrator click the view vaccine batch information.

The screenshot displays the 'View Batch Vaccination Information' page of the 'MY PRIVATE VACCINE' application. The left sidebar contains a navigation menu with options: Dashboard, ADMIN menu, Record Vaccine Batch, and View Vaccination Information. The main content area has a title 'View Batch Vaccination Information' and a subtitle 'To view vaccination appointments status'. Below this is a section titled 'Batch Tables' containing a table with one entry:

Batch No	Vaccine Name	Manufacturer
512710P	Sinovac	Sinovac Biotech

Below the table, it says 'Showing 1 to 1 of 1 entries' and includes 'Previous' and 'Next' buttons. A 'Search:' input field is also present. The next section is 'Form Input' with a 'Batch No' input field and a 'Submit' button. The final section is 'DataTables' containing another table:

Batch No	Vaccination ID	Appointment Date	Patient Name	Centre Name	Vaccine Name	Pending Appointment	Exp Date	Quantity Available	Quantity Administered	Status	Option
Batch No	Vaccination ID	Appointment Date	Patient Name	Centre Name	Vaccine Name	Pending Appointment	Exp Date	Quantity Available	Quantity Administered	Status	Option

At the bottom of the page, there is a copyright notice: 'Copyright © MyPrivateVaccine 2021'.

Form Input

Batch No

Submit

DataTables

Batch No	Vaccination ID	Appointment Date	Patient Name	Centre Name	Vaccine Name	Pending Appointment	Exp Date	Quantity Available	Quantity Administered	Status	
512710P	34	2021-12-15	Uchiha Sasuke	MSU Medical Centre	Sinovac	1	2022-06-01	999	0	Pending	

6) Confirm Vaccination Appointment

MY PRIVATE VACCINE

Dashboard

ADMIN MENU

Record Vaccine Batch

View Vaccination Information

Naruto Uzumaki

Tables

To view vaccination appointments for a healthcare centre

DataTables

Show 10 entries Search:

Batch No	Patient Name	Email	ICPassport	Expiry Date	Manufacture	Vaccine Name
512710P	Uchiha Sasuke	uchihasukeshage@gmail.com	JPY5671234	2022-06-01	Sinovac Biotech	Sinovac

Showing 1 to 1 of 1 entries Previous 1 Next

Back Submit Rejected

Copyright © MYPrivateVaccine 2021

DataTables

Data has successfully saved!

Batch No	Vaccination ID	Appointment Date	Patient Name	Centre Name	Vaccine Name	Pending Appointment	Exp Date	Quantity Available	Quantity Administered	Status	
512710P	34	2021-12-15	Uchiha Sasuke	MSU Medical Centre	Sinovac	0	2022-06-01	999	0	Confirm	

Copyright © MYPrivateVaccine 2021

7) Reject Vaccination Appointment

The screenshot shows a web application interface for managing vaccination records. On the left, a sidebar menu includes 'Dashboard', 'ADMIN HOME', 'Record Vaccine Batch', and 'View Vaccination Information'. The main content area has a header 'Tables' and a sub-header 'To view vaccination appointments for a healthcare centre'. A 'DataTables' section displays a table with columns: Batch No, Patient Name, Email, ICPassport, Expiry Date, Manufacture, and Vaccine Name. One row is shown: 512710P, Uchiha Sasuke, uchihasasukeshage@gmail.com, JPY5671234, 2022-06-01, Sinovac Biotech, Sinovac. Below the table, a message says 'Showing 1 to 1 of 1 entries' and 'Remarks: The quota have been full.' At the bottom are 'Back' and 'Submit' buttons.

DataTables

Show 10 entries Search:

Batch No	Patient Name	Email	ICPassport	Expiry Date	Manufacture	Vaccine Name
512710P	Uchiha Sasuke	uchihasasukeshage@gmail.com	JPY5671234	2022-06-01	Sinovac Biotech	Sinovac

Showing 1 to 1 of 1 entries
Remarks:
The quota have been full.

Back Submit

DataTables

Data has successfully saved!

Batch No	Vaccination ID	Appointment Date	Patient Name	Centre Name	Vaccine Name	Pending Appointment	Exp Date	Quantity Available	Quantity Administered	Status
512710P	34	2021-12-15	Uchiha Sasuke	MSJU Medical Centre	Sinovac	0	2022-06-01	999	0	Rejected

Copyright © MYPrivateVaccine 2021

8) Record Vaccination Administered

The screenshot shows a user profile for 'Naruto Uzumaki' at the top right. On the left, a sidebar menu includes 'Dashboard', 'ADMIN MENU', 'Record Vaccine Batch', and 'View Vaccination Information'. The main content area is titled 'Tables' with the subtitle 'To view vaccination appointments for a healthcare centre'. A 'DataTables' table lists a single entry:

Batch No	Patient Name	ICPassport	Expiry Date	Manufacture	Vaccine Name
512710P	Uchiha Sasuke	JPY5671234	2022-06-01	Sinovac Biotech	Sinovac

Below the table, a message states 'Showing 1 to 1 of 1 entries'. Under 'Remarks', it says 'He has gotten 1 doses of vaccine without any symptom'. At the bottom are 'Back' and 'Submit' buttons.

A green success message 'Data has successfully saved!' is displayed. Below it is another 'DataTables' table showing vaccination records:

Batch No	Vaccination ID	Appointment Date	Patient Name	Centre Name	Vaccine Name	Pending Appointment	Exp Date	Quantity Available	Quantity Administered	Status
512710P	34	2021-12-15	Uchiha Sasuke	MSU Medical Centre	Sinovac	0	2022-06-01	999	1	Administered

At the bottom, there is a note 'Copyright © MYPrivateVaccine 2021'.

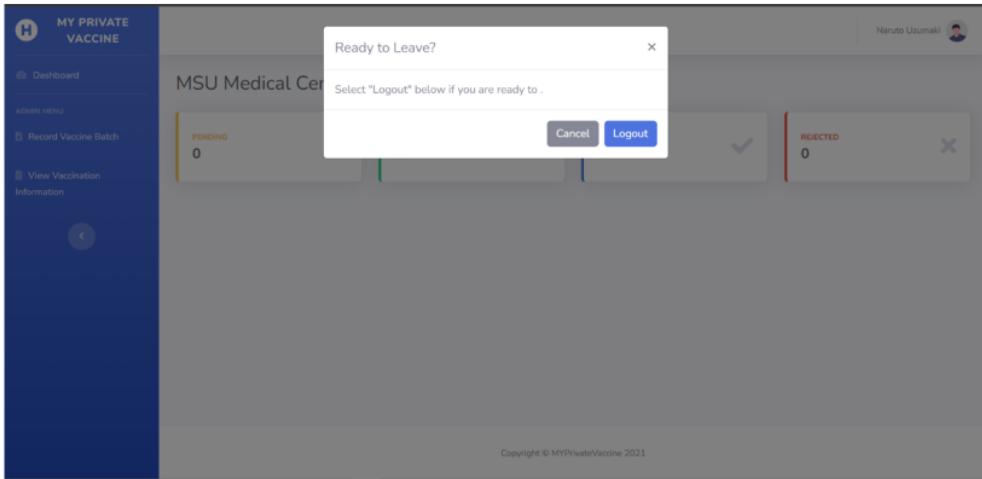
9) View Vaccination Status

The sidebar menu on the left includes 'Dashboard', 'PATIENT MENU', 'Request Vaccination Appointment', and 'View Vaccination'. The main content area is titled 'Tables' with the subtitle 'To allow a Patient to view the vaccination status.' A 'DataTables' table lists a single entry:

Name	Batch	Centre Name	Address	Vaccine	Appointment	Status	Remarks
Uchiha Sasuke	512710P	MSU Medical Centre	Selangor	Sinovac	2021-12-15	Administered	He has gotten 1 doses of vaccine without any symptom

Below the table, a note says 'Showing 1 to 1 of 1 entries'. At the bottom, there is a note 'Copyright © MYPrivateVaccine 2021'.

10) Logout



C. Test Objectives

The **testing** approach is followed to guarantee that the use cases produced in this project's second iteration operate as planned. All of the requirements objectives for the remaining use cases that have been defined are listed below:

- 1) Healthcare administrator can record new vaccine batch, and the new vaccine recorded can be displayed throughout various use cases that needed it.
- 2) Healthcare administrator can view vaccine batch information which contain vaccination appointment made by patients.
- 3) Healthcare administrator can confirm or reject any vaccination appointment by choosing which vaccination appointment to manage.
- 4) Healthcare administrator can record any vaccination appointment as administered by choosing which vaccination appointment with the status confirm to be recorded as administered.
- 5) Patient can request vaccination appointment by choosing the vaccine they want
- 6) Patient can view their vaccination appointment status, it will be displayed as:
 - Confirm, when the vaccination appointment confirmed but not yet administered
 - Rejected, when the vaccination appointment rejected
 - Administered, when the vaccination is administered

- 7) System can be utilized on a variety of devices
- 8) The user interface operates in accordance with its functions.

D. Test Plan

Testing type	Strategy	Tools	Schedule
Unit: 1. Record new vaccine batch 2. View vaccine batch information 3. Confirm vaccination appointment 4. Record Vaccination Administered 5. Request vaccination appointment 6. View vaccination status	Black box	Selenium	according to the Gantt chart's schedule (12/01/2020 - 12/17/2020)
Integration	Black box	Selenium	according to the Gantt chart's schedule (12/01/2020 - 12/17/2020)
Functional	Black box	Selenium	according to the Gantt chart's schedule (12/01/2020 - 12/17/2020)

Non-functional	Black box	Google Chrome	according to the Gantt chart's schedule (12/01/2020 - 12/17/2020)
----------------	-----------	---------------	--

E. Test Results

1. Unit Testing

1) Sign Up (Patient)

Test ID	R-01			
Use Case	Sign Up (patient)			
Test Description	To allow user(patient) to register to the system			
Source Code	<pre>\$sql = "insert into user (icpassport, centreName,username,password,email,fullname,role) values ('\$ICPassport', '\$centreName', '\$username', '\$password', '\$email', '\$fullname', '\$role')"; \$dataSQL = mysqli_query(\$connect,\$sql); if (\$dataSQL) { header("location:../login.php?message=success"); } else { header("location:../register.php?message=fail"); }</pre>			
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Username: uchiha - Password: sasuke123 - Email: uchihasasuke@gmail.com - Full Name: Uchiha Sasuke - ICPassport: JPY5671234 	Success message displayed, direct user to login menu, data enter will be stored in the database.	Success message displayed, direct user to login menu, data enter will be stored in the database.	pass
Test case 2:	<ul style="list-style-type: none"> - Username: - Password: - Email: - Full Name: - ICPassport: 	Warning message displayed, stay on the sign up page	Warning message displayed, stay on the sign up page	pass

Test case 3:	<ul style="list-style-type: none"> - Username: uchiha - Password: itachi123 - Email: itachiuchiha@gmail.com - Full Name: Itachi Uchiha - ICPassport: JPY2648576 	Warning message indicate username used shown	Warning message indicate username used shown	pass
--------------	--	--	--	------

2) Sign Up (Healthcare Administrator)

1	Test ID	R-02			
	Use Case	Sign Up (healthcare administrator)			
	Test	To allow user(healthcare administrator) to register to the system			
1	Description				
	Source Code	<pre>\$sql = "insert into user (icppassport, centreName,username,password,email,fullname,role) values ('\$ICPassport', '\$centreName', '\$username', '\$password', '\$email', '\$fullname', '\$role')"; \$dataSQL = mysqli_query(\$connect,\$sql); if (\$dataSQL) { header("location:../login.php?message=success"); } else { header("location:../register.php?message=fail"); }</pre>			
	Test Data	Expected output	Actual output	Remark(s)	
Test case 1:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto123 - Email: uzumakinaruto@gmail.com - Full Name: Naruto Uzumaki - Center Name: MSU Medical Centre 	Success message displayed, direct user to login menu, data enter will be stored in the database.	Success message displayed, direct user to login menu, data enter will be stored in the database.	Pass	
Test case 2:	<ul style="list-style-type: none"> - Username: - Password: 	Warning message	Warning message	Pass	

	<ul style="list-style-type: none"> - Email: - Full Name: - Center Name: 	displayed, stay on the sign up page	displayed, stay on the sign up page	
Test case 3:	<ul style="list-style-type: none"> - Username: uzumaki - Password: boruto123 - Email: uzumakiboruto@gmail.com - Full Name: Boruto Uzumaki - Center Name: MSU Medical Centre 	Warning message indicate username used shown	Warning message indicate username used shown	pass

3) Sign Up (Healthcare administrator add healthcare center)

1	Test ID	R-03			
	Use case	Sign-up → Add new Healthcare			
	Test description	To allow user to add new healthcare if there are no suitable healthcares			
1	Source code	<pre>\$sqlHealth = "insert into healthcarecentre (centreName, address) values ('\$centreName', '\$address')"; \$dataSQL = mysqli_query(\$connect,\$sqlHealth); header(header: "location:../../register.php?message=success-add");</pre>			
	Test data	Expected output	Actual output	Remark(s)	
	Test case 1:	<ul style="list-style-type: none"> - Centre Name: BROSS Hospital - Address: Denpasar 	Success message displayed, direct user to sign-up page, data enter will be	Success message displayed, direct user to sign-up page, data enter will be stored in	Pass

		stored in the database.	the database.	
--	--	-------------------------	---------------	--

4) Login

1	Test ID	R-04						
1	Use Case	Login						
1	Test Description	To allow user to login to the system and display their menu according to their role						
1	Source Code	<pre>\$dataUser = mysqli_fetch_assoc(\$login); if(\$dataUser['role'] == "administrator"){ header("location:home-administrator.php"); } else{ header("location:home-patient.php"); }</pre>						
	Test Data	Expected output	Actual output	Remark(s)				
1	Test case 1:	<ul style="list-style-type: none"> - Username: uchiha - Password: sasuke123 	Direct to patient home page	Direct to patient home page	Pass			
1	Test case 2:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto123 	Direct to healthcare administrator home page, display center name	Direct to healthcare administrator home page, display center name	Pass			
1	Test case 3:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto 	Display error notification, stay on login page, both field emptied	Display error notification, stay on login page, both field emptied	Pass			

5) Record New Vaccine Batch

1	Test ID	R-05			
---	---------	------	--	--	--

Use case	Record New Vaccine Batch
Test	To allow administrator to record new vaccine batch
description	<p>Source code</p> <pre><!-- Record DataTables Example --> <div class="card shadow mb-4"> <div class="card-header py-3"> <h6 class="m-0 font-weight-bold text-primary">Record Batch Tables</h6> </div> <div class="card-body"> <!-- Button Add Test --> <div class="table-responsive"> <table class="table table-bordered" id="dataTable" width="100%" cellspacing="0"> <thead> <tr> <th>Vaccine ID</th> <th>Manufacturer</th> <th>Vaccine Name</th> </tr> </thead> <tfoot> <tr> <th>Vaccine ID</th> <th>Manufacturer</th> <th>Vaccine Name</th> </tr> </tfoot> </tbody> </table> </div> <div class="card shadow mb-4"> <div class="card-header py-3"> <h6 class="m-0 font-weight-bold text-primary">Form Input</h6> </div> <div class="card-body"> <form method="POST" action="record-process.php"> <div class="form-group"> <label>Vaccine ID</label> <input class="form-control" type="number" name="vaccineID"> </div> <input class="form-control" type="hidden" name="centreName" value=<?php echo \$_SESSION['centreName']; ?>> <div class="form-group"> <label>Batch No</label> <input class="form-control" type="text" name="batchNo"> </div> <div class="form-group"> <label>Exp Date</label> <input class="form-control" type="date" name="expiryDate"> </div> <div class="form-group"> <label>Qty Available</label> <input class="form-control" type="number" name="quantityAvailable"> </div> <div class="form-group"> Back <input class="btn btn-success" type="submit" value="Submit"> </div> </form> </div> </div></pre>

	<pre> <h1 class="h3 mb-2 text-gray-800">Record New Vaccine Batch</h1> <?php if(isset(\$_GET['message'])) { if(\$_GET['message'] == "success") { echo <div class="alert alert-success" role="alert">Data has successfully saved!</div>; }else if(\$_GET['message'] == "Delete-success") { echo <div class="alert alert-success" role="alert">Data has successfully removed!</div>; }else if(\$_GET['message'] == "Delete-fail") { echo <div class="alert alert-danger" role="alert">The data can not be removed!</div>; } } <!-- Record DataTales Example --> <div class="card shadow mb-4"> <div class="card-header py-3"> <h6 class="m-0 font-weight-bold text-primary">Record Batch Tables</h6> </div> <div class="card-body"> <!-- Button Add Test --> Record New Batch

 <div class="table-responsive"> <table class="table table-bordered" id="dataTable" width="100%" cellspacing="0"> <thead> <tr> <th>Batch No</th> <th>Expiry Date</th> <th>Quantity Available</th> <th>Options</th> </tr> </thead> <tfoot> <tr> <th>Batch No</th> <th>Expiry Date</th> <th>Quantity Available</th> <th>Options</th> </tr> </tfoot> <tbody> </pre>								
Test case 1:	<table border="1"> <thead> <tr> <th>Test data</th> <th>Expected output</th> <th>Actual output</th> <th>Remark(s)</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> - Vaccine ID: 1 - Batch No: 512710P - Expiry Date: 01-06-2022 - Quantity: 100 </td><td> Success message displayed, direct user to view </td><td> Success message displayed, direct user to view </td><td>pass</td></tr> </tbody> </table>	Test data	Expected output	Actual output	Remark(s)	<ul style="list-style-type: none"> - Vaccine ID: 1 - Batch No: 512710P - Expiry Date: 01-06-2022 - Quantity: 100 	Success message displayed, direct user to view	Success message displayed, direct user to view	pass
Test data	Expected output	Actual output	Remark(s)						
<ul style="list-style-type: none"> - Vaccine ID: 1 - Batch No: 512710P - Expiry Date: 01-06-2022 - Quantity: 100 	Success message displayed, direct user to view	Success message displayed, direct user to view	pass						

		batch page, data enter will be stored in the database.	batch page, data enter will be stored in the database.	
Test case 2:	- Vaccine ID: 10 - Batch No: 513891A - Expiry Date: 01-10-2022 - Quantity: 100	Warning message displayed, stay on the form-record batch page	Warning message displayed, stay on the form-record batch page	pass

6) Request Vaccination Appointment

Test ID	R-06
Use case 1	Request Vaccination Appointment
Test description	To allow user to request vaccination appointment

Source code	<pre> <table class="table table-bordered" id="dataTable" width="100%" cellspacing="0"> <thead> <tr> <th>Batch</th> <th>Centre Name</th> <th>Address</th> <th>Manufacturer</th> <th>Vaccine</th> <th>Exp Date</th> <th>Qty</th> </tr> </thead> <tbody> <?php include '../connection.php'; \$listVaccine = mysqli_query(\$connect, "SELECT * FROM vaccine INNER JOIN batch ON batch.vaccineID = vaccine.vaccineID INNER JOIN healthcarecentre ON healthcarecentre.centreName = batch.centreName WHERE batch.quantityAvailable > 0 AND batch.expiryDate > NOW()"); while (\$row = mysqli_fetch_assoc(\$listVaccine)){ ?> <tr> <td><?php echo \$row['batchNo'] ?></td> <td><?php echo \$row['centreName'] ?></td> <td><?php echo \$row['address'] ?></td> <td><?php echo \$row['manufacturer'] ?></td> <td><?php echo \$row['vaccineName'] ?></td> <td><?php echo \$row['expiryDate'] ?></td> <td><?php echo \$row['quantityAvailable'] ?></td> </tr> <?php } ?> </tbody> </table> </div> </div> <div class="card shadow mb-4"> <div class="card-header py-3"> <h6 class="m-0 font-weight-bold text-primary">Form Input</h6> </div> <div class="card-body"> <form method="POST" action="process-create.php"> <input class="form-control" type="hidden" name="fullname" value="<?php echo \$_SESSION['fullname'] ?>"> <div class="form-group"> <label>Batch No</label> <input class="form-control" type="text" name="batchNo"> </div> <div class="form-group"> <label>Appointment Date</label> <input class="form-control" type="date" name="appointmentDate"> </div> <div class="form-group"> Back <input class="btn btn-success" type="submit" value="Submit"> </div> </form> </div> </div></pre>									
	<table border="1"> <thead> <tr> <th>Test data</th><th>Expected output</th><th>Actual output</th><th>Remark(s)</th></tr> </thead> <tbody> <tr> <td>Test case 1:</td><td> <ul style="list-style-type: none"> - Batch No: 512710P - Appointment Date: 20-12-2021 </td><td> Success message displayed, direct user to view vaccination status page, </td><td> Success message displayed, direct user to view vaccination status page, </td><td>pass</td></tr> </tbody> </table>	Test data	Expected output	Actual output	Remark(s)	Test case 1:	<ul style="list-style-type: none"> - Batch No: 512710P - Appointment Date: 20-12-2021 	Success message displayed, direct user to view vaccination status page,	Success message displayed, direct user to view vaccination status page,	pass
Test data	Expected output	Actual output	Remark(s)							
Test case 1:	<ul style="list-style-type: none"> - Batch No: 512710P - Appointment Date: 20-12-2021 	Success message displayed, direct user to view vaccination status page,	Success message displayed, direct user to view vaccination status page,	pass						

		data enter will be stored in the database.	data enter will be stored in the database.	
Test case 2:	<ul style="list-style-type: none"> - Batch No: 512710A - Appointment Date: 20-12-2021 	Warning message displayed, stay on the request vaccination appointment page	Warning message displayed, stay on the request vaccination appointment page	Pass

7) View Vaccination Information

Test ID	R-7
Use case	View Vaccination Information
Test description	To allow user to view vaccination information
Source code	<pre><table class="table table-bordered" id="dataTable" width="100%" cellspacing="0"> <thead> <tr> <th>Batch No</th> <th>Vaccine Name</th> <th>Manufacturer</th> </tr> </thead> <tfoot> <tr> <th>Batch No</th> <th>Vaccine Name</th> <th>Manufacturer</th> </tr> </tfoot> <tbody> include '../connection.php'; \$listVaccine = mysqli_query(\$connect, query: "SELECT * FROM vaccine INNER JOIN batch ON batch.vaccineID = vaccine.vaccineID INNER JOIN healthCareCentre ON healthCareCentre.centreName = batch.centreName WHERE healthCareCentre.centreName = '".\$_SESSION['centreName']."' "); while (\$row = mysqli_fetch_array(\$listVaccine)){ >> <tr> <td><?php echo \$row['batchNo'] ?></td> <td><?php echo \$row['vaccineName'] ?></td> <td><?php echo \$row['manufacturer'] ?></td> </tr> </?php } > </tbody> </table> </div> </div></pre>

```


###### Form Input



<?php
if(isset($_GET['message'])){
    if($_GET['message'] == 'success'){
        echo "<div class='alert alert-danger' role='alert'>The data can not be saved!</div>";
    }else if($_GET['message'] == 'invalidvaccine'){
        echo "<div class='alert alert-danger' role='alert'>vaccine can not be identified!</div>";
    }
}
?>
<form method="POST" action="-->">


<label>Batch No:</label>
<input class="form-control" type="text" name="batchNo">



<input class="btn btn-success" type="submit" name="submit" value="Submit">


</form>
</div>



| Batch No     | Vaccination ID | Appointment Date | Patient Name        | Centre Name | Vaccine Name       | Pending Appointment   | Exp Date | Quantity Available | Quantity Administered | Status | Option |
|--------------|----------------|------------------|---------------------|-------------|--------------------|-----------------------|----------|--------------------|-----------------------|--------|--------|
| Batch No     | Vaccination ID | Appointment Date | Patient Name        | Centre Name | Vaccine Name       | Pending Appointment   | Exp Date | Quantity Available | Quantity Administered | Status | Option |
| Patient Name | Centre Name    | Vaccine Name     | Pending Appointment | Exp Date    | Quantity Available | Quantity Administered | Status   | Option             |                       |        |        |


<?php
include '../connection.php';
error_reporting( error_level_E_ERROR | E_PARSE);

$countVaccinePending = mysqli_query($connect, "SELECT * FROM vaccination
INNER JOIN batch
ON vaccination.batchNo = batch.batchNo
INNER JOIN vaccine
ON vaccine.vaccineID = batch.vaccineID
WHERE status = 'Pending'
AND batch.batchNo = '$batchNo'
");
$totalPending = mysqli_num_rows($countVaccinePending);


```

	<pre> \$countVaccineConfirm = mysqli_query(\$connect, query: "SELECT * FROM vaccination INNER JOIN batch ON vaccination.batchNo = batch.batchNo INNER JOIN vaccine ON vaccine.vaccineID = batch.vaccineID WHERE status = 'Confirmed' AND batch.batchNo = '\$batchNo' "); \$totalConfirm = mysqli_num_rows(\$countVaccineConfirm); \$countVaccineReject = mysqli_query(\$connect, query: "SELECT * FROM vaccination INNER JOIN batch ON vaccination.batchNo = batch.batchNo INNER JOIN vaccine ON vaccine.vaccineID = batch.vaccineID WHERE status = 'Rejected' AND batch.batchNo = '\$batchNo' "); \$totalRejected = mysqli_num_rows(\$countVaccineReject); </pre> <pre> \$countVaccineAdministered = mysqli_query(\$connect, query: "SELECT * FROM vaccination INNER JOIN batch ON vaccination.batchNo = batch.batchNo INNER JOIN vaccine ON vaccine.vaccineID = batch.vaccineID WHERE status = 'Administered' AND batch.batchNo = '\$batchNo' "); \$totalAdministered = mysqli_num_rows(\$countVaccineAdministered); \$listVaccine = mysqli_query(\$connect, query: "SELECT * FROM vaccine INNER JOIN batch ON batch.vaccineID = vaccine.vaccineID INNER JOIN vaccination ON vaccination.batchNo = batch.batchNo INNER JOIN healthcarecentre ON healthcarecentre.centreName = batch.centreName WHERE healthcarecentre.centreName = '".\$_SESSION['centreName']."' AND batch.batchNo = '\$batchNo' "); while (\$row = mysqli_fetch_array(\$listVaccine)){ ?> </pre> <pre> <tr> <td><?php echo \$row['batchNo'] ?></td> <td><?php echo \$row['vaccinationID'] ?></td> <td><?php echo \$row['appointmentDate'] ?></td> <td><?php echo \$row['fullname'] ?></td> <td><?php echo \$row['centreName'] ?></td> <td><?php echo \$row['vaccineName'] ?></td> <td><?php echo \$totalPending ?></td> <td><?php echo \$row['expiryDate'] ?></td> <td><?php echo \$row['quantityAvailable'] ?></td> <td><?php echo \$row['quantityAdministered'] ?></td> <?php if(\$totalPending){ ?> <td><p class="btn btn-warning btn-sm"><?php echo \$row['status'] ?></p></td> <?php } else if (\$totalConfirm) {?> <td><p class="btn btn-info btn-sm"><?php echo \$row['status'] ?></p></td> <?php } else if (\$totalRejected) {?> <td><p class="btn btn-danger btn-sm"><?php echo \$row['status'] ?></p></td> <?php }else if (\$totalAdministered) {?> <td><p class="btn btn-success btn-sm"><?php echo \$row['status'] ?></p></td> <?php } ?></pre> <pre> <td> <a href="../confirm-vaccination/create.php?vaccinationID= <php echo \$row['vaccinationID']; ?>" class="btn btn-info btn-sm">Confirm

 <a href="../record-vaccination-admin/create.php?vaccinationID= <php echo \$row['vaccinationID']; ?>" class="btn btn-success btn-sm">Record </td> </tr> <?php } ?> </tbody> </table> </pre>	Test data	Expected output	Actual output	Remark(s)
--	--	-----------	-----------------	---------------	-----------

Test case 1:	- Batch No: 512710P	Detail Batch information Displayed, user stay in view vaccination information page	Detail Batch information Displayed, user stay in view vaccination information page	Pass
--------------	---------------------	---	---	------

8) Confirm Vaccination Appointment

1	Test ID	R-08
	Use case	Confirm Vaccination appointment
	Test	To allow user to confirm vaccination appointment
	description	<pre><table class="table table-bordered" id="dataTable" width="100%" cellspacing="0"> <thead> <tr> <th>Batch No</th> <th>Patient Name</th> <th>Email</th> <th>ICPassport</th> <th>Expiry Date</th> <th>Manufacture</th> <th>Vaccine Name</th> </tr> </thead> <tfoot> <tr> <th>Batch No</th> <th>Patient Name</th> <th>Email</th> <th>ICPassport</th> <th>Expiry Date</th> <th>Manufacture</th> <th>Vaccine Name</th> </tr> </tfoot> <tbody></pre>

```

<?php
include '../connection.php';
$vaccinationID = $_GET['vaccinationID'];
//Menghitung Status Pending pada Vaccination
$listVaccination = mysqli_query($connect,
    query: "SELECT * FROM vaccine
        INNER JOIN batch
        ON batch.vaccineID = vaccine.vaccineID
        INNER JOIN vaccination
        ON vaccination.batchNo = batch.batchNo
        INNER JOIN user
        ON user.fullname = vaccination.fullname
        WHERE vaccination.vaccinationID = '$vaccinationID'");

while ($row = mysqli_fetch_array($listVaccination)){
    $batchNo = $row['batchNo'];
    $vaccinationID = $row['vaccinationID'];
    $email = $row['email'];
    $fullname = $row['fullname'];

    ?>

<tr>
    <td><?php echo $row['batchNo'] ?></td>
    <td><?php echo $row['fullname'] ?></td>
    <td><?php echo $row['email'] ?></td>
    <td><?php echo $row['icpassport'] ?></td>
    <td><?php echo $row['expiryDate'] ?></td>
    <td><?php echo $row['manufacturer'] ?></td>
    <td><?php echo $row['vaccineName'] ?></td>

</tr>
<?php } ?>
</tbody>
</table>
<form method="POST" action="process-create.php">
    <input class="form-control" type="hidden" name="vaccinationID" value="<?php echo $vaccinationID;?>">
    <input class="form-control" type="hidden" name="batchNo" value="<?php echo $batchNo;?>">
    <input class="form-control" type="hidden" name="email" value="<?php echo $email;?>">
    <input class="form-control" type="hidden" name="fullname" value="<?php echo $fullname;?>">

    <div class="form-group">
        <a class="btn btn-primary" href="../view-batch/view.php">Back</a>
        <input class="btn btn-success" type="submit" value="Submit">
        <a href="..reject-vaccination/create.php?vaccinationID=<?php echo $vaccinationID; ?>">
            class="btn btn-danger">Rejected</a>
    </div>

```

1

	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- Click submit button	Success message Displayed, email notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	Success message Displayed, email notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	Pass

Test case 2	- Click Reject button	Redirect user to reject vaccination appointment page	Redirect user to reject vaccination appointment page	Pass
Test case 3	- Click Back button	Redirect user to view vaccination information page	Redirect user to view vaccination information page	Pass

9) Reject Vaccination Appointment

Test ID	R-09
Use case	Reject vaccination appointment
Test description	To allow user to reject vaccination appointment
Source code	<pre><table class="table table-bordered" id="dataTable" width="100%" cellspacing="0"> <thead> <tr> <th>Batch No</th> <th>Patient Name</th> <th>Email</th> <th>IDPassport</th> <th>Expiry Date</th> <th>Manufacture</th> <th>Vaccine Name</th> </tr> </thead> <tfoot> <tr> <th>Batch No</th> <th>Patient Name</th> <th>Email</th> <th>IDPassport</th> <th>Expiry Date</th> <th>Manufacture</th> <th>Vaccine Name</th> </tr> </tfoot> <tbody></pre> <pre></pre> <?php include '../connection.php'; \$vaccinationID = \$_GET['vaccinationID']; //Menghitung Status Pending pada Vaccination \$listVaccination = mysqli_query(\$connect, query: "SELECT * FROM vaccine INNER JOIN batch ON batch.vaccineID = vaccine.vaccineID INNER JOIN vaccination ON vaccination.batchNo = batch.batchNo INNER JOIN user ON user.FullName = vaccination.FullName WHERE vaccination.vaccinationID = '\$vaccinationID'"); while (\$row = mysqli_fetch_array(\$listVaccination)){ \$batchNo = \$row['batchNo']; \$vaccinationID = \$row['vaccinationID']; \$email = \$row['email']; \$fullname = \$row['fullname']; } ?></pre>

	<pre> <tr> <td><?php echo \$row['batchNo'] ?></td> <td><?php echo \$row['fullname'] ?></td> <td><?php echo \$row['email'] ?></td> <td><?php echo \$row['icPassport'] ?></td> <td><?php echo \$row['expiryDate'] ?></td> <td><?php echo \$row['manufacturer'] ?></td> <td><?php echo \$row['vaccineName'] ?></td> </pre>			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Remarks: quota for the vaccination has been full - Click Submit button 	Success message Displayed, email notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	Success message Displayed, email notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	Pass
Test case 2	<ul style="list-style-type: none"> - Click Back button 	Redirect user to view vaccination information page	Redirect user to view vaccination information page	Pass

10) Record Vaccination Administered

Test ID	R-10
Use case 1	Record vaccination administered
Test description	To allow user to record vaccination administered
Source code	<pre> <table class="table table-bordered" id="dataTable" width="100%" cellspacing="0"> <thead> <tr> <th>Batch No</th> <th>Patient Name</th> <th>ICPassport</th> <th>Expiry Date</th> <th>Manufacture</th> <th>Vaccine Name</th> </tr> </thead> <tfoot> <tr> <th>Batch No</th> <th>Patient Name</th> <th>ICPassport</th> <th>Expiry Date</th> <th>Manufacture</th> <th>Vaccine Name</th> </tr> </tfoot> <tbody> <tr> <td><?php echo \$row['batchNo'] ?></td> <td><?php echo \$row['fullname'] ?></td> <td><?php echo \$row['icpassport'] ?></td> <td><?php echo \$row['expiryDate'] ?></td> <td><?php echo \$row['manufacture'] ?></td> <td><?php echo \$row['vaccineName'] ?></td> </tr> </tbody> </pre> <pre> <?php include '../connection.php'; \$vaccinationID = \$_GET['vaccinationID']; //Menghitung Status Pending pada Vaccination \$listVaccination = mysqli_query(\$connect, query: "SELECT * FROM vaccine INNER JOIN batch ON batch.vaccineID = vaccine.vaccineID INNER JOIN vaccination ON vaccination.batchNo = batch.batchNo INNER JOIN user on user.fullname = vaccination.fullname WHERE vaccination.vaccinationID = '\$vaccinationID'"); while (\$row = mysqli_fetch_array(\$listVaccination)){ \$batchNo = \$row['batchNo']; \$vaccinationID = \$row['vaccinationID']; ?> <tr> <td><?php echo \$row['batchNo'] ?></td> <td><?php echo \$row['fullname'] ?></td> <td><?php echo \$row['icpassport'] ?></td> <td><?php echo \$row['expiryDate'] ?></td> <td><?php echo \$row['manufacture'] ?></td> <td><?php echo \$row['vaccineName'] ?></td> </tr> <?php } ?> </tbody> </table> <form method="POST" action="process-create.php"> <input class="form-control" type="hidden" name="vaccinationID" value="<?php echo \$vaccinationID;?>"> <input class="form-control" type="hidden" name="batchNo" value="<?php echo \$batchNo;?>"> <div class="form-group"> <label>Remarks:</label> <input class="form-control" type="text" name="remarks"> </div> <div class="form-group"> Back <input class="btn btn-success" type="submit" value="Submit"> </div> </form> </pre>

	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Remarks: He has gotten 1 doses of vaccine without any symptom - Click Submit button 	<p>Success message Displayed, redirect user to view vaccination information page, data will be stored in the database.</p>	<p>Success message Displayed, redirect user to view vaccination information page, data will be stored in the database.</p>	Pass

11) View Vaccination Status

1	
Test ID	R-11
Use case	View vaccination status
Test description	To allow user to view vaccination status

Source code	<pre> <table class="table table-bordered" id="dataTable" width="100%" cellspacing="0"> <thead> <tr> <th>Name</th> <th>Batch</th> <th>Centre Name</th> <th>Address</th> <th>Vaccine</th> <th>Appointment</th> <th>Status</th> <th>Remarks</th> </tr> </thead> <tfoot> <tr> <th>Name</th> <th>Batch</th> <th>Centre Name</th> <th>Address</th> <th>Vaccine</th> <th>Appointment</th> <th>Status</th> <th>Remarks</th> </tr> </tfoot> </tbody></pre> <pre> <?php include '../connection.php'; \$no = 1; \$countVaccine = mysqli_query(\$connect, "SELECT * FROM vaccination INNER JOIN batch ON vaccination.batchNo = batch.batchNo WHERE status = 'Pending' "); \$totalPending = mysqli_num_rows(\$countVaccine); \$listVaccine = mysqli_query(\$connect, query: "SELECT * FROM vaccine INNER JOIN batch ON batch.vaccineID = vaccine.vaccineID INNER JOIN vaccination ON vaccination.batchNo = batch.batchNo INNER JOIN healthcarecentre ON healthcarecentre.centreName = batch.centreName WHERE vaccination.fullname = '".\$_SESSION['fullname']."'"); while (\$row = mysqli_fetch_array(\$listVaccine)){ ?></pre> <pre> <tr> <td><?php echo \$row['fullname']; ?></td> <td><?php echo \$row['batchNo'] ?></td> <td><?php echo \$row['centreName'] ?></td> <td><?php echo \$row['address'] ?></td> <td><?php echo \$row['vaccineName'] ?></td> <td><?php echo \$row['appointmentDate'] ?></td> <?php if(\$totalPending){ ?> <td><p class="btn btn-warning btn-sm"><?php echo \$row['status'] ?></p></td> <?php } else { ?> <td><p class="btn btn-success btn-sm"><?php echo \$row['status'] ?></p></td> <?php } ?> <td><?php echo \$row['remarks'] ?></td> </tr> <?php } ?> </tbody> </table></pre> <p style="color: red; font-weight: bold;">1</p>			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- Click view vaccination status menu	Vaccination information displayed	Vaccination information displayed	Pass

12) Logout

Test ID	R-12			
Use Case	Logout			
Test Description	To allow user to logout from the system			
Source Code	<pre><?php session_start(); session_destroy(); header(header: "location:../login.php"); ?></pre>			
	Test Data	Expected output	Actual output	Remark(s)
Test Case 1:	Click logout button	Confirmation message displayed	Confirmation message displayed	Pass
Test Case 2:	Click 'cancel' button on the logout confirmation	Stay on the pervious page	Stay on the ¹ pervious page	Pass
Test Case 3:	Click 'yes' button on the logout confirmation	Session ended, directing back to login menu	Session ended, directing back to login menu	Pass

2. 1 Integration Testing

1) Sign Up (Patient)

Test ID	R-01			
Use Case	Sign Up (patient)			
Test Description	To allow user(patient) to register to the system			

	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Username: uchiha - Password: sasuke123 - Email: uchihasasuke@gmail.com - Full Name: Uchiha Sasuke - ICPasport: JPY5671234 	Success message displayed, direct user to login menu, data enter will be stored in the database.	Success message displayed, direct user to login menu, data enter will be stored in the database.	pass
Test case 2:	<ul style="list-style-type: none"> - Username: - Password: - Email: - Full Name: - ICPasport: 	Warning message displayed, stay on the sign up page	Warning message displayed, stay on the sign up page	pass
Test case 3:	<ul style="list-style-type: none"> - Username: uchiha - Password: itachi123 - Email: itachiuchiha@gmail.com - Full Name: Itachi Uchiha - ICPasport: JPY2648576 	Warning message indicate username used shown	Warning message indicate username used shown	pass

2) Sign Up (Healthcare Administrator)

1	Test ID	R-02		
Use Case	Sign Up (healthcare administrator)	1		
Test Description	To allow user(healthcare administrator) to register to the system			
	Test Data	Expected output	Actual output	Remark(s)

Test case 1:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto123 - Email: uzumakinaruto@gmail.com - Full Name: Naruto Uzumaki - Center Name: MSU Medical Centre 	Success message displayed, direct user to login menu, data enter will be stored in the database.	Success message displayed, direct user to login menu, data enter will be stored in the database.	Pass
Test case 2:	<ul style="list-style-type: none"> - Username: - Password: - Email: - Full Name: - Center Name: 	Warning message displayed, stay on the sign up page	Warning message displayed, stay on the sign up page	Pass
Test case 3:	<ul style="list-style-type: none"> - Username: uzumaki - Password: boruto123 - Email: uzumakiboruto@gmail.com - Full Name: Boruto Uzumaki - Center Name: MSU Medical Centre 	Warning message indicate username used shown	Warning message indicate username used shown	pass

3) Sign Up (Healthcare administrator add healthcare center)

1	Test ID	R-03			
	Use case	Sign-up → Add new Healthcare			
	Test description	To allow user to add new healthcare if there are no suitable healthcares			
	1 Test data		Expected output	Actual output	Remark(s)

Test case 1:	<ul style="list-style-type: none"> - Centre Name: BROSS Hospital - Address: Denpasar 	<p>Success message displayed, direct user to sign-up page, data enter will be stored in the database.</p>	<p>Success message displayed, direct user to sign-up page, data enter will be stored in the database.</p>	Pass
--------------	--	---	---	------

4) Login

1 Test ID	R-04			
Use Case	Login			
Test Description	To allow user to login to the system and display their menu according to their role 1			
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Username: uchiha - Password: sasuke123 	Direct to patient home page	Direct to patient home page	Pass
Test case 2:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto123 	Direct to healthcare administrator home page, display center name	Direct to healthcare administrator home page, display center name	Pass
Test case 3:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto 	Display error notification, stay on login page, both field emptied	Display error notification, stay on login page, both field emptied	Pass

5) 1 Record New Vaccine Batch

Test ID	R-05			
Use case	Record New Vaccine Batch			
Test description	To allow administrator to record new vaccine batch			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Vaccine ID: 1 - Batch No: 512710P - Expiry Date: 01-06-2022 - Quantity: 100 	Success message displayed, direct user to view batch page, data enter will be stored in the database.	Success message displayed, direct user to view batch page, data enter will be stored in the database.	pass
Test case 2:	<ul style="list-style-type: none"> - Vaccine ID: 10 - Batch No: 513891A - Expiry Date: 01-10-2022 - Quantity: 100 	Warning message displayed, stay on the form-record batch page	Warning message displayed, stay on the form-record batch page	pass

6) 1 Request Vaccination Appointment

Test ID	R-06			
Use case	Request Vaccination Appointment			
Test description	To allow user to request vaccination appointment			
	Test data	Expected output	Actual output	Remark(s)

Test case 1:	<ul style="list-style-type: none"> - Batch No: 512710P - Appointment Date: 20-12-2021 	<p>Success message displayed, direct user to view vaccination status page, data entered will be stored in the database.</p>	<p>Success message displayed, direct user to view vaccination status page, data entered will be stored in the database.</p>	pass
Test case 2:	<ul style="list-style-type: none"> - Batch No: 512710A - Appointment Date: 20-12-2021 	<p>Warning message displayed, stay on the request vaccination appointment page</p>	<p>Warning message displayed, stay on the request vaccination appointment page</p>	Pass

7) View Vaccination Information

Test ID	R-07						
Use case	View Vaccination Information						
Test description	To allow user to view vaccination information						
	Test data	Expected output	Actual output	Remark(s)			
Test case 1:	<ul style="list-style-type: none"> - Batch No: 512710P 	<p>Detail Batch information Displayed, user stay in view vaccination</p>	<p>Detail Batch information Displayed, user stay in view</p>	Pass			

		information page	vaccination information page	
--	--	------------------	------------------------------	--

8) Confirm Vaccination Appointment

1	Test ID	R-08					
Use case	Confirm Vaccination appointment						
Test description	To allow user to confirm vaccination appointment						
1	Test data	Expected output	Actual output	Remark(s)			
Test case 1:	- Click submit button	Success message Displayed, email notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	Success message Displayed, email notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	Pass			
Test case 2	- Click Reject button	Redirect user to reject vaccination appointment page	Redirect user to reject vaccination appointment page	Pass			
Test case 3	- Click Back button	Redirect user to view vaccination information page	Redirect user to view vaccination information page	Pass			

9) Reject Vaccination Appointment

1	Test ID	R-09		
Use case	Reject vaccination appointment			

Test description	To allow user to reject vaccination appointment			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Remarks: quota for the vaccination has been full - Click Submit button 	Success message Displayed, email notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	Success message Displayed, email notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	Pass
Test case 2	<ul style="list-style-type: none"> - Click Back button 	Redirect user to view vaccination information page	Redirect user to view vaccination information page	Pass

10) Record Vaccination Administered

Test ID	R-10
Use case	Record vaccination administered
Test description	To allow user to record vaccination administered

	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Remarks: He has gotten 1 doses of vaccine without any symptom - Click Submit button 	Success message Displayed, redirect user to view vaccination information page, data will be stored in the database.	Success message Displayed, redirect user to view vaccination information page, data will be stored in the database.	Pass

11) View Vaccination Status

1	Test ID	R-11		
	Use case	View vaccination status		
	Test description	To allow user to view vaccination status		
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Click view vaccination status menu 	Vaccination information displayed	Vaccination information displayed	Pass

12) Logout

Test ID	R-12		
Use Case	Logout		
Test Description	To allow user to logout from the system		

	Test Data	Expected output	Actual output	Remark(s)
Test Case 1:	Click logout button	Confirmation message 1 displayed	Confirmation message 1 displayed	Pass
Test Case 2:	Click 'cancel' button on the logout confirmation	Stay on the previous page	Stay on the 1 previous page	Pass
Test Case 3:	Click 'yes' button on the logout confirmation	Session ended, directing back to login menu	Session ended, directing back to login menu	1 Pass

3. System Testing

- Functional Requirements

1) Sign Up (Patient)

Test ID	R-01 1						
Use Case	Sign Up (patient)						
Test Description	To allow user(patient) to register to the system						
	Test Data	Expected output	Actual output	Remark(s)			
Test case 1:	<ul style="list-style-type: none"> - Username: uchiha - Password: sasuke123 - Email: uchihasasuke@gmail.com - Full Name: Uchiha Sasuke - ICPasport: JPY5671234 	Success message displayed, direct user to login menu, data enter will be stored in the database.	Success message displayed, direct user to login menu, data enter will be stored in the database.	pass			

Test case 2:	<ul style="list-style-type: none"> - Username: - Password: - Email: - Full Name: - ICPPasport: 	Warning message displayed, stay on the sign up page	Warning message displayed, stay on the sign up page	pass
Test case 3:	<ul style="list-style-type: none"> - Username: uchiha - Password: itachi123 - Email: itachiuchiha@gmail.com - Full Name: Itachi Uchiha - ICPPasport: JPY2648576 	Warning message indicate username used shown	Warning message indicate username used shown	pass

2) Sign Up (Healthcare Administrator)

Test ID	R-02						
Use Case	Sign Up (healthcare administrator)						
Test	To allow user(healthcare administrator) to register to the system						
Description	Test Data	Expected output	Actual output	Remark(s)			
Test case 1:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto123 - Email: uzumakinaruto@gmail.com - Full Name: Naruto Uzumaki - Center Name: MSU Medical Centre 	Success message displayed, direct user to login menu, data enter will be stored in the database.	Success message displayed, direct user to login menu, data enter will be stored in the database.	Pass			
Test case 2:	<ul style="list-style-type: none"> - Username: - Password: 	Warning message	Warning message	Pass			

	<ul style="list-style-type: none"> - Email: - Full Name: - Center Name: 	displayed, stay on the sign up page	displayed, stay on the sign up page	
Test case 3:	<ul style="list-style-type: none"> - Username: uzumaki - Password: boruto123 - Email: uzumakiboruto@gmail.com - Full Name: Boruto Uzumaki - Center Name: MSU Medical Centre 	Warning message indicate username used shown	Warning message indicate username used shown	pass

3) Sign Up (Healthcare administrator add healthcare center)

1	Test ID	R-03			
1	Use case	Sign-up → Add new Healthcare			
1	Test description	To allow user to add new healthcare if there are no suitable healthcares			
1	Test data		Expected output	Actual output	Remark(s)
1	Test case 1:		<ul style="list-style-type: none"> - Centre Name: "BROSS Hospital" - Address: "Denpasar" 	Success message displayed, direct user to sign-up page, data enter will be stored in the database.	Success message displayed, direct user to sign-up page, data enter will be stored in the database.

4) Login

1	Test ID	R-04	
---	---------	------	--

Use Case	Login			
Test Description	To allow user to login to the system and display their menu according to their role			
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Username: uchiha - Password: sasuke123 	<p>Direct to patient home page</p>	<p>Direct to patient home page</p>	Pass
Test case 2:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto123 	<p>Direct to healthcare administrator home page, display center name</p>	<p>Direct to healthcare administrator home page, display center name</p>	Pass
Test case 3:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto 	<p>Display error notification, stay on login page, both field emptied</p>	<p>Display error notification, stay on login page, both field emptied</p>	Pass

5) Record New Vaccine Batch

Test ID	R-05			
Use case	Record New Vaccine Batch			
Test description	To allow administrator to record new vaccine batch			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Vaccine ID: "1" - Batch No: "512710P" - Expiry Date: "01-06-2022" - Quantity: "100" 	<p>Success message displayed, direct user to view</p>	<p>Success message displayed, direct user to view</p>	pass

		batch page, data enter will be stored in the database.	batch page, data enter will be stored in the database.	
Test case 2:	<ul style="list-style-type: none"> - Vaccine ID: "10" - Batch No: "513891A" - Expiry Date: "01-10-2022" - Quantity: "100" 	Warning message displayed, stay on the form-record batch page	Warning message displayed, stay on the form-record batch page	pass

6) Request Vaccination Appointment

1	Test ID	R-06			
Use case	Request Vaccination Appointment				
Test description	To allow user to request vaccination appointment				
	1	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Batch No: "512710P" - Appointment Date: "20-12-2021" 	Success message displayed, direct user to view vaccination status page, data enter will be stored in the database.	Success message displayed, direct user to view vaccination status page, data enter will be stored in the database.	pass	
Test case 2:	<ul style="list-style-type: none"> - Batch No: "512710A" 	Warning message	Warning message	Pass	

	- Appointment Date:" 20-12-2021"	displayed, stay on the request vaccination appointment page	displayed, stay on the request vaccination appointment page	
--	----------------------------------	---	---	--

7) View Vaccination Information

Test ID	R-07						
Use case	View Vaccination Information						
Test description	To allow user to view vaccination information						
	Test data	Expected output	Actual output	Remark(s)			
Test case 1:	- Batch No: "512710P"	Detail Batch information Displayed, user stay in view vaccination information page	Detail Batch information Displayed, user stay in view vaccination information page	Pass			

8) Confirm Vaccination Appointment

Test ID	R-08						
Use case	Confirm Vaccination appointment						
Test description	To allow user to confirm vaccination appointment						
	Test data	Expected output	Actual output	Remark(s)			
Test case 1:	- Click submit button	Success message Displayed, email	Success message Displayed, email	Pass			

		notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	notification is automatically send to patient, redirect user to view vaccination information page, data will be stored in the database.	
Test case 2	- Click Reject button	Redirect user to reject vaccination appointment page	Redirect user to reject vaccination appointment page	Pass
Test case 3	- Click Back button	Redirect user to view vaccination information page	Redirect user to view vaccination information page	Pass

9) Reject Vaccination Appointment

1 Test ID	R-09			
Use case	Reject vaccination appointment 1			
Test description	To allow user to reject vaccination appointment			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- Remarks: “quota for the vaccination has been full” - Click Submit button	Success message Displayed, email notification is automatically send to patient, redirect user	Success message Displayed, email notification is automatically send to patient, redirect user	Pass

		to view vaccination information page, data will be stored in the database.	to view vaccination information page, data will be stored in the database.	
Test case 2	- Click Back button	Redirect user to view vaccination information page	Redirect user to view vaccination information page	Pass

10) Record Vaccination Administered

1 Test ID	R-10			
Use case	Record vaccination administered			
Test description	To allow user to record vaccination administered			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Remarks: ‘He has gotten 1 doses of vaccine without any symptom’ - Click Submit button 	Success message Displayed, redirect user to view vaccination information page, data will be stored in the database.	Success message Displayed, redirect user to view vaccination information page, data will be stored in the database.	Pass

11) View Vaccination Status

Test ID	R-11			
Use case	View vaccination status			
Test description	To allow user to view vaccination status			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- Click view vaccination status menu	Vaccination information displayed	Vaccination information displayed	Pass

12) Logout

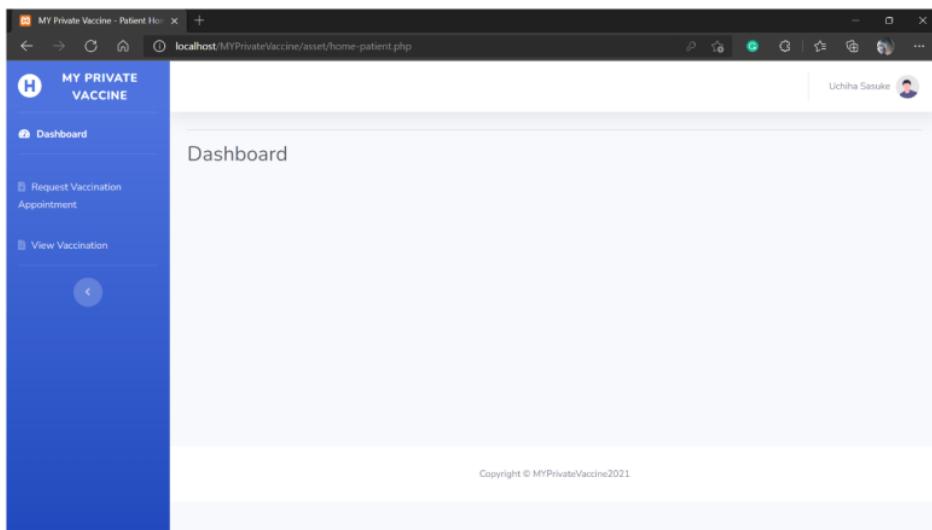
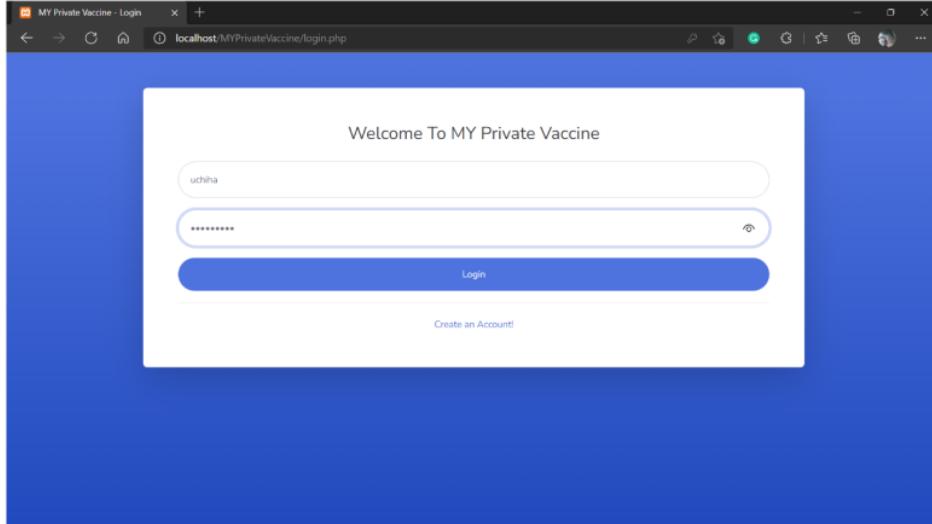
Test ID	R-04			
Use Case	Logout			
Test Description	To allow user to logout from the system			
	Test Data	Expected output	Actual output	Remark(s)
Test Case 1:	Click logout button	Confirmation message displayed	Confirmation message displayed	Pass
Test Case 2:	Click 'cancel' button on the logout confirmation	Stay on the previous page	Stay on the previous page	Pass
Test Case 3:	Click 'yes' button on the logout confirmation	Session ended, directing back to login menu	Session ended, directing back to login menu	Pass

- Non-Functional Requirements

1) Compatibility

Accessible to most browser, here we choose Microsoft Edge and Google Chrome as an example

- Microsoft Edge



- Google Chrome

The image displays two screenshots of a web application interface, likely a patient management system.

Login Page (Top Screenshot):

- The title bar says "MY Private Vaccine - Login".
- The URL in the address bar is "localhost/MYPrivateVaccine/login.php".
- The main content area has a white background with a blue header bar.
- The header bar contains the text "Welcome To MY Private Vaccine".
- Below the header are two input fields: one for "username" containing "uchiha" and another for "password" containing "*****".
- A blue "Login" button is positioned below the password field.
- At the bottom of the form, there is a link "Create an Account!".

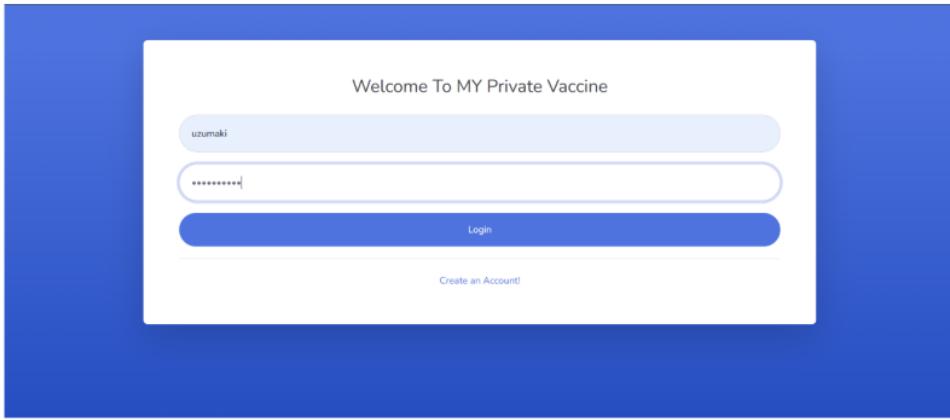
Patient Dashboard (Bottom Screenshot):

- The title bar says "MY Private Vaccine - Patient Home".
- The URL in the address bar is "localhost/MYPrivateVaccine/asset/home-patient.php".
- The main content area has a white background with a blue header bar.
- The header bar contains the text "MY PRIVATE VACCINE" and a user profile icon labeled "uchiha Sasuke".
- The left sidebar has a dark blue background with white text:

 - Dashboard** (selected)
 - Request Vaccination Appointment**
 - View Vaccination**

- The right main area is titled "Dashboard".
- At the bottom of the right area, there is a small text "Copyright © MYPrivateVaccine2021".

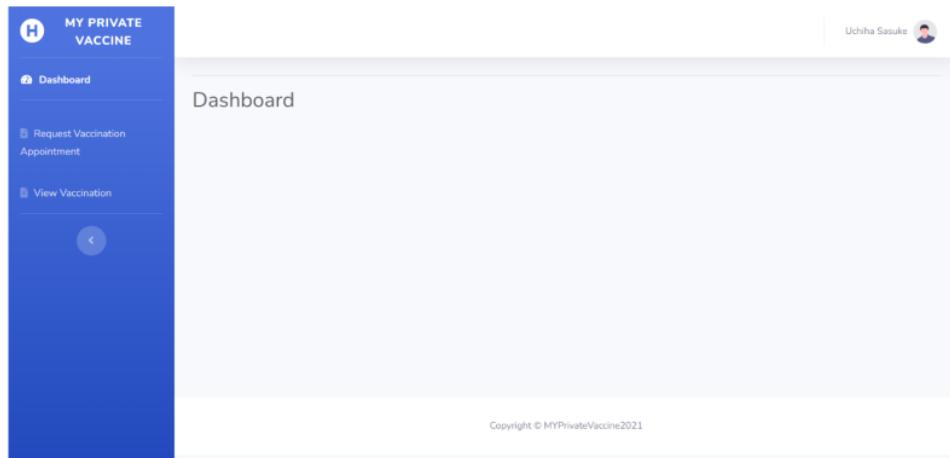
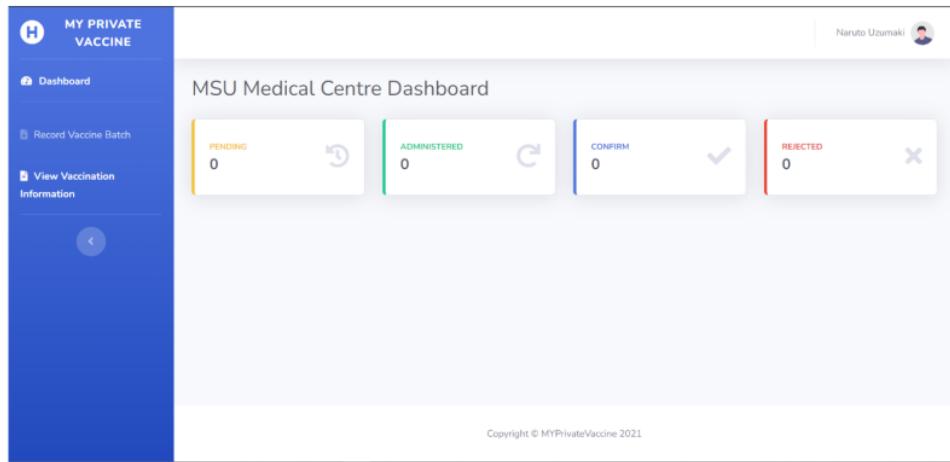
2) Security



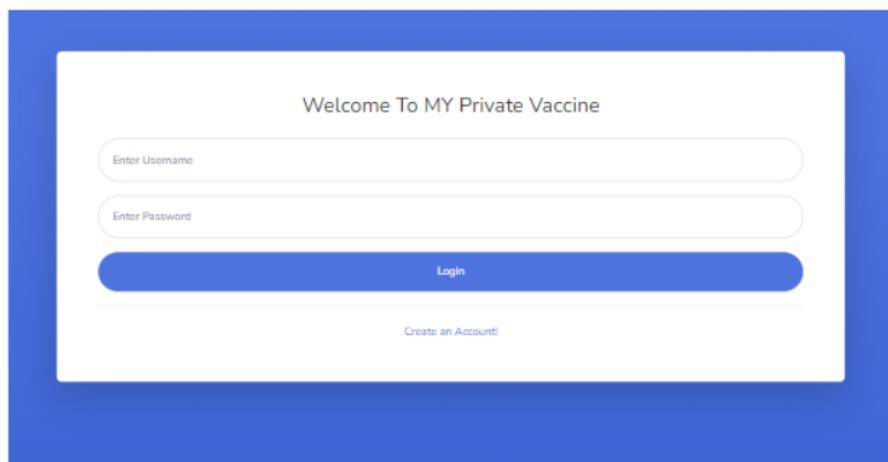
1	Test ID	R-03		
Use Case	Login			
Test Description	To allow user to login to the system and display their menu according to their role			
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	<ul style="list-style-type: none"> - Username: uchiha - Password: sasuke123 	Password field changed to “...”	Password field changed to “...”	Pass

3) Usability

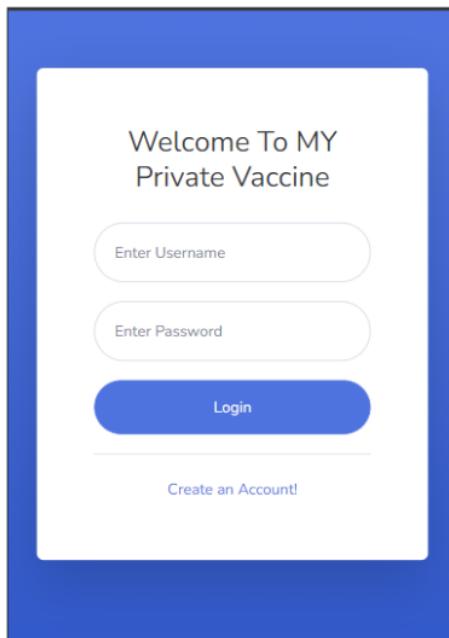
User friendly website with simple layout. System can also be accessed through smart phone. Dashboard example.



- Tablet



- Mobile Phone



F. Test Analysis Report

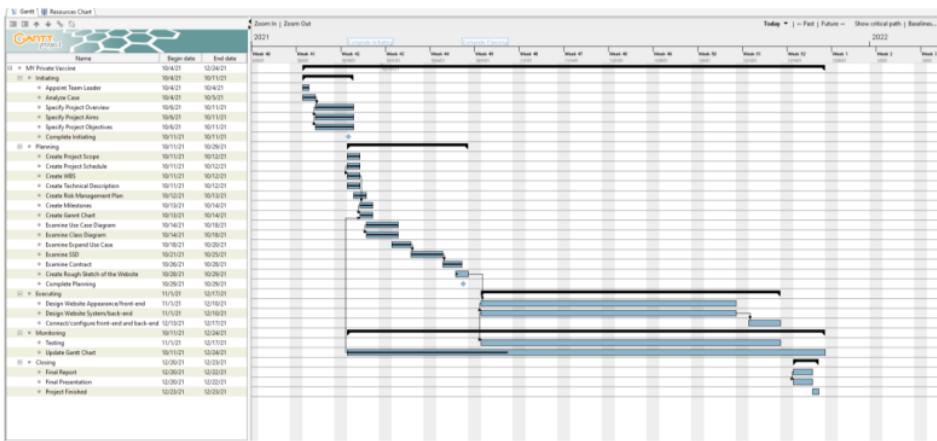
Unit testing, integration testing, both functional and non-functional system testing, were used to test the use cases in the second iteration of this project. The results of the various tests reveal that all of the use cases created in this iteration match the predetermined requirements. During testing, there were no issues, and the test results revealed that the designed use cases were able to function properly.

III. Review

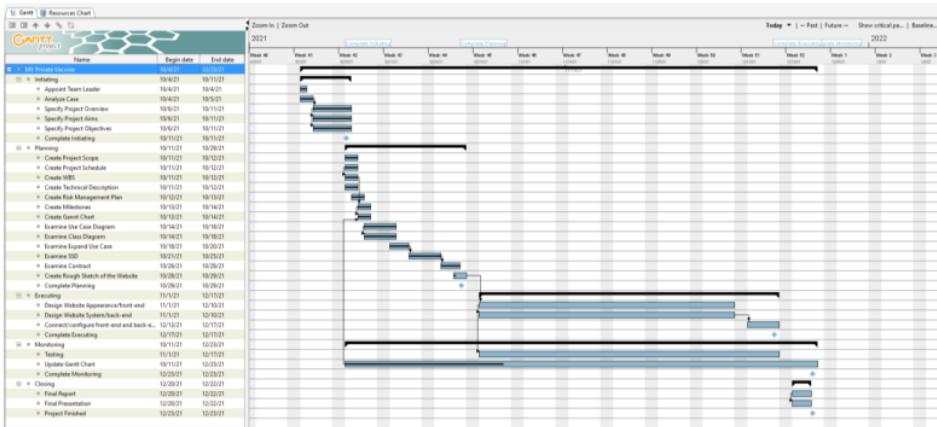
A. Gantt Chart Finale

This project is going according to schedule made in the early stage of this project. Both the work schedule and the task completed have remained unchanged.

- Before



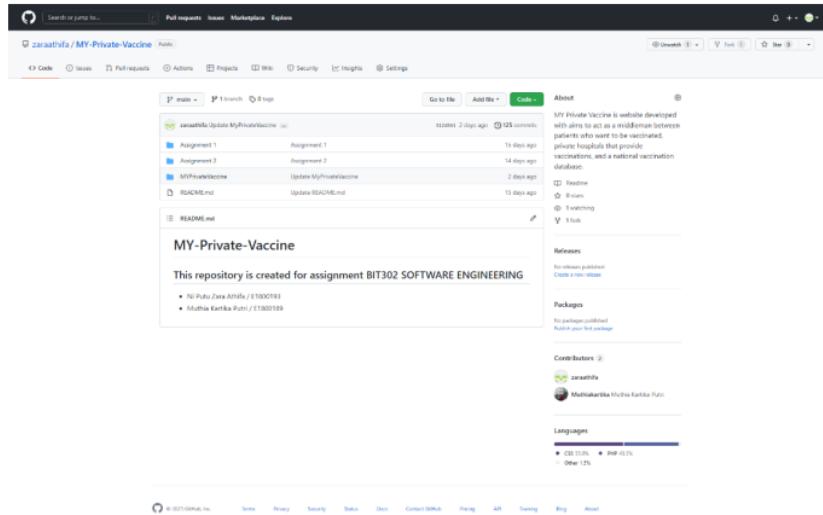
- After



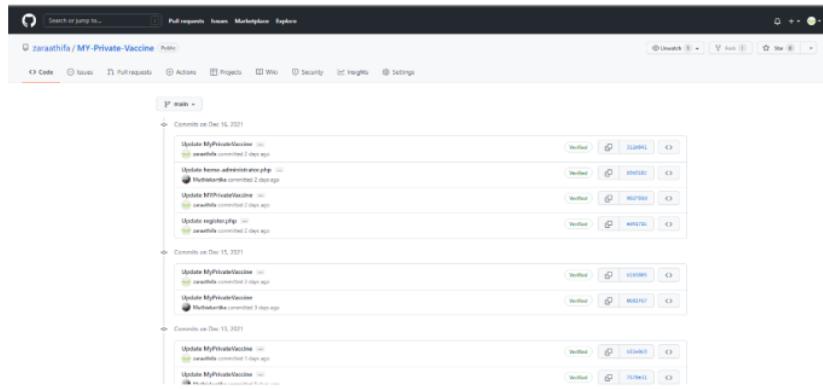
B. Git Hub

Git Hub link: <https://github.com/zaraathifa/MY-Private-Vaccine.git>

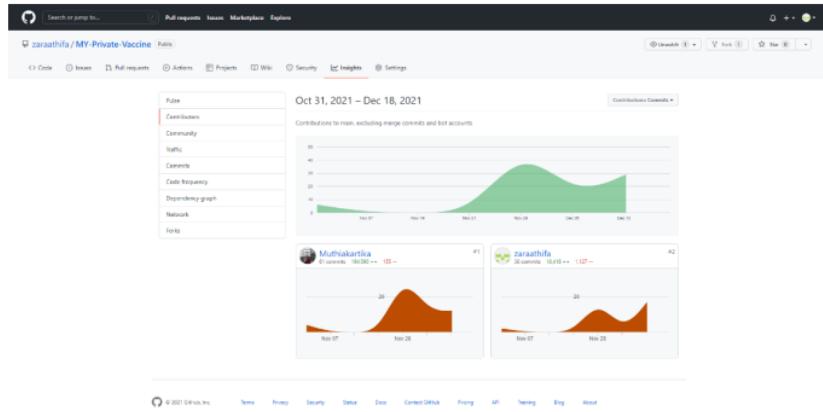
- Git Hub Main Page



- Git Hub Commit History



- Git Hub Contributor Insight



C. Review

Student Name & ID: Ni Putu Zara Athifa Wijana & E1800193

1

1) Did the group meet the objectives defined in Assignment 1?

We believe that we were successful in achieving the goals set out at the start of the project. We established three goals at the start of the project: to assist private health care providers in recording and monitoring the number of patients who will be vaccinated, to assist private health care providers in submitting patient data on vaccine recipients to the national vaccine committee database, and to assist the general public in self-vaccination. We feel that our system is capable of achieving the three mentioned goals.

1

2) What went wrong and what went right?

First and foremost, what went well was that we were able to meet the project's objectives also the requirements and that we were able to complete this project on time without encountering any obstacles that could not be resolved. As for what went wrong, there was nothing that went wrong with the final project result because, as previously stated, we did meet the stated objectives; however, there was something that made us overwhelmed during project work: on the one hand, we had to run the project according to schedule, but on the other hand, we had to work on some tasks outside of this project that had the same short completion time. But, thankfully, we made it through all of this safely.

3) What you would have done differently?

What I would've done differently if I have multiple tasks to accomplish with short deadlines is that I will try to analyze the complexity of each task first and prioritize the tasks that must be performed first. Furthermore, if I am assigned to a team project in the future or given another opportunity to lead a project, I will continue to grow myself to be a better team member or leader.

Student Name & ID: Muthia Kartika Putri & E1800189

1) Did the group meet the objectives defined in Assignment 1?

Yes, it did. After completing all of the tasks in this project, we have finally achieved all of the objectives that we set out in assignment 1. We successfully developed a system that can be used by all private healthcare centers that have been registered as COVID-19 vaccination service centers to organize vaccination data such as the number of vaccines available and the number of patients who have received vaccinations. This information will be sent to a national database. This system can also be used by any society that wishes to receive COVID-19 vaccination from a private hospital and a vaccine manufacturer of their choice.

2) What went wrong and what went right?

What went right?

All of the team members have already met all of the requirements needed to complete this project. We effectively managed and produced all of the features based on user requests, and this website application is performing as planned and is being well maintained by each team member within the estimated time frame that was set when the project was originally started.

What went wrong?

We are having difficulty managing the time for this project due to the timing constraints in developing it. Furthermore, we have other tasks from another project to complete in a quite short period.

3) What you would have done differently?

During developing this project, I learned a lot as a team member. After all that happened throughout this assignment, I was able to improve my communication skills, collaborate with others, manage my time, and so on. Working on this project has gained a better personality and set of behaviors. In working with other people on another project, I will become more active, communicative, and innovative.

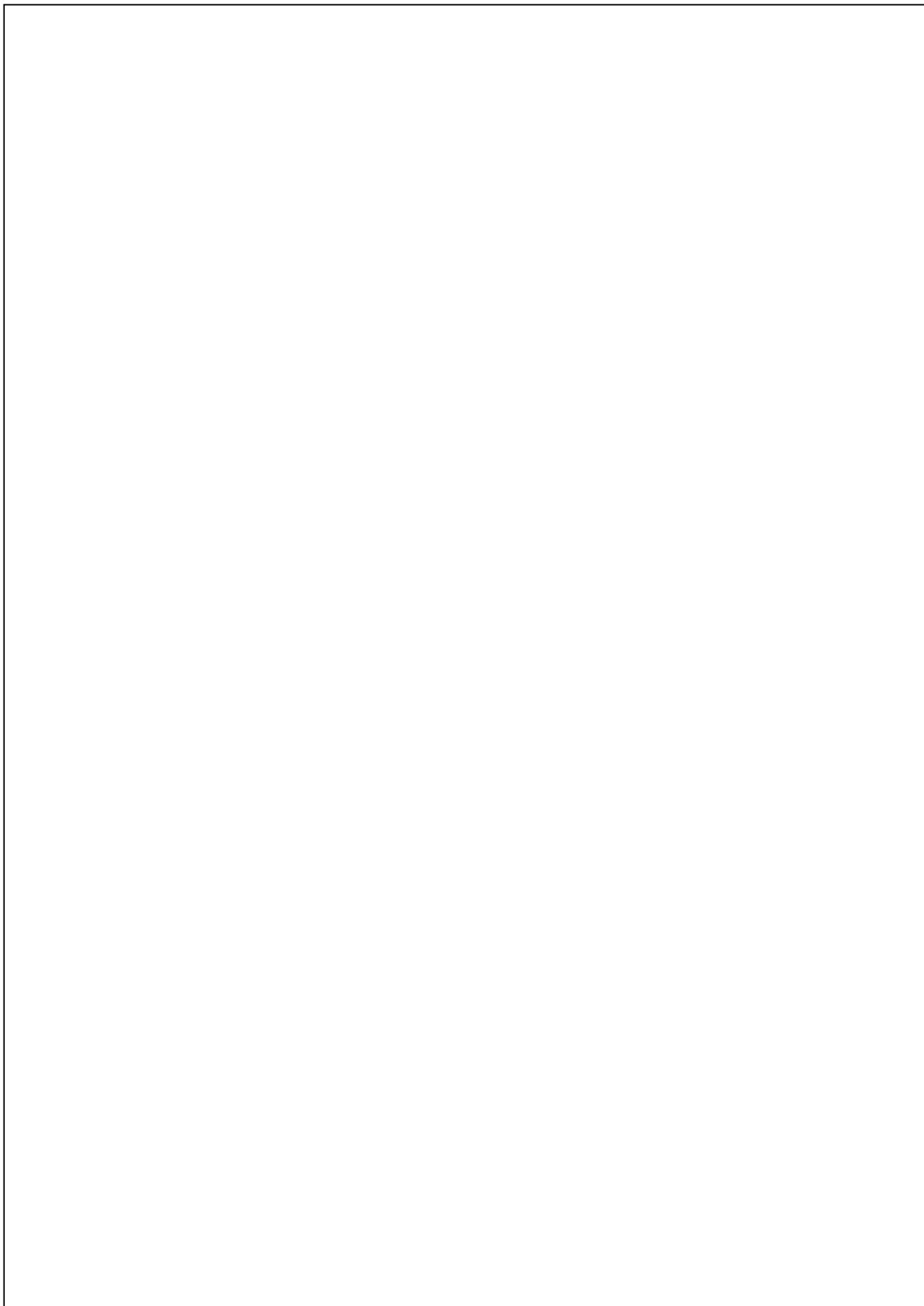
Conclusion

We worked on this project in accordance with the requirements and objectives set forth at the early stage of the project. We realized that there are various things we can gain while working on this project that will help us better. We will work even harder in the future to improve our time management skill, as it turns out to be a challenging issue that we face when working on this project. We will continue to improve our skill and abilities so that we can give a closer-to-perfect end result.

IV. 4 References

Ian, S. (2015). *Software Engineering Global Edition* (10th ed.). PEARSON

EDUCACION.



E1800189 & E1800193 BIT302 Assignment 3

ORIGINALITY REPORT

23%
SIMILARITY INDEX

1%
INTERNET SOURCES

0%
PUBLICATIONS

23%
STUDENT PAPERS

PRIMARY SOURCES

- | | |
|---|--|
| <p>1 Submitted to HELP UNIVERSITY
Student Paper</p> <p>2 Submitted to Asia Pacific University College of Technology and Innovation (UCTI)
Student Paper</p> <p>3 Submitted to Southern New Hampshire University - Continuing Education
Student Paper</p> <p>4 Submitted to Westcliff University
Student Paper</p> | <p>22%</p> <p>1%</p> <p><1%</p> <p><1%</p> |
|---|--|

Exclude quotes Off

Exclude bibliography Off

Exclude matches Off