E1800189 & E1800193 BIT302 Assignment 3

by NI PUTU ZARA ATHIFA WIJANA -

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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	**Date/Time**

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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	

Feedback/Comments*
Main Strengths
Main Weaknesses
Suggestions for improvement

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

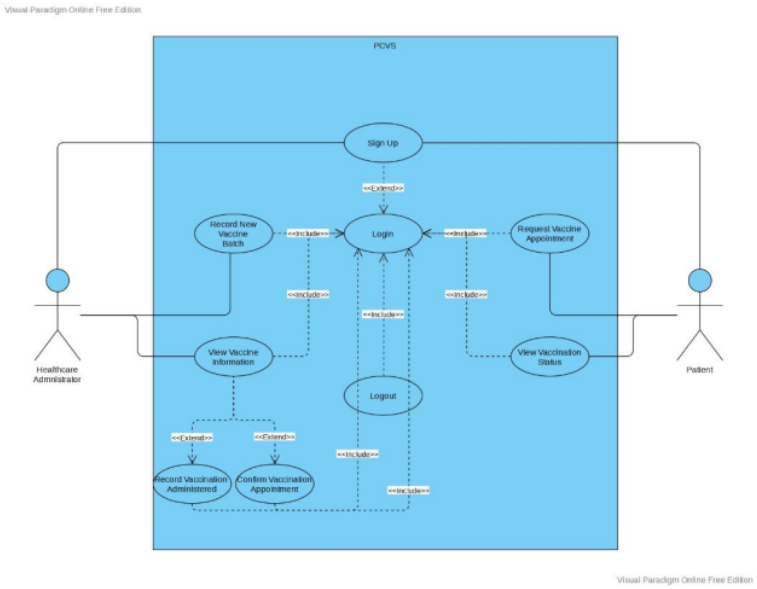
Table of Contents

I. Follow Up

A. Analysis of Design or Documentation Updates

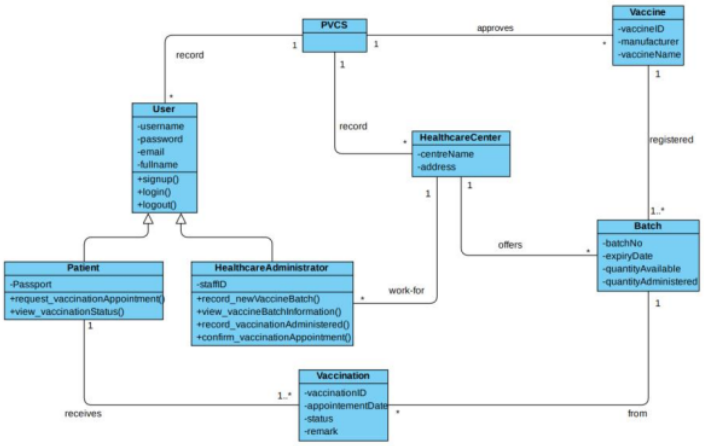
We will go over some of the modifications that have occurred in previously generated documents in the following sections.

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:

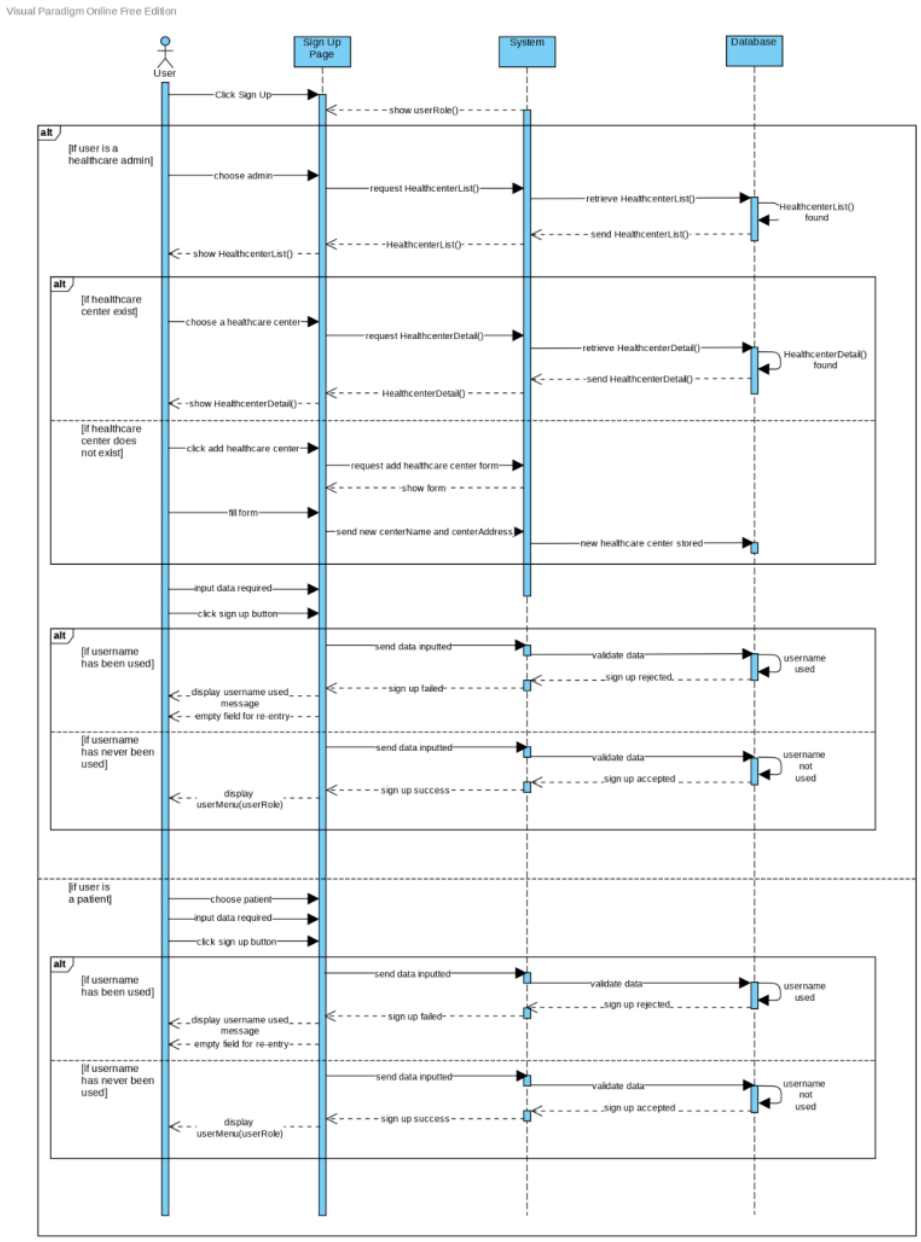
- Developed: the developed use case for current iteration
- Updated: the updated use case from the previous iteration
- New: the new use case added

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	- A valid and active email exist - ICPassport registered - Unused username
Post-conditions	- Patient account created - Directed to patient menu page **If** username used **Then** clear field for re-entry
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	- A valid and active email exist - Registered to a healthcare centre as a staff **If** a healthcare centre is not listed **then** add centerName and centerAddress
Post-conditions	- Healthcare administrator account created - Staff ID automatically generated - Directed to healthcare administrator menu page **If** username used **Then** clear field for re-entry

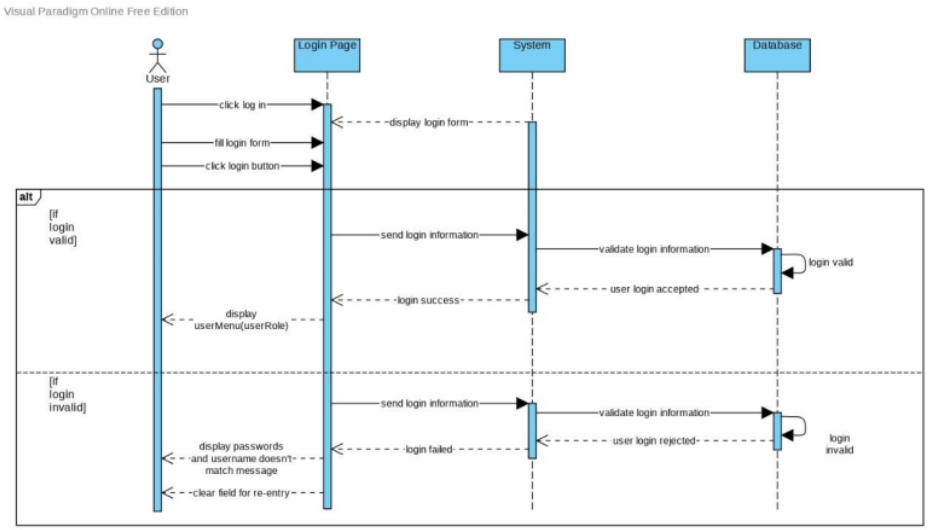
2) **Login** (updated)

- Expanded Use Case

Use Case 2	Login
Goal	Allow existing PCVS users (patients and healthcare administrators) to log in.
Actor - **Primary** - **Secondary**	User (patients and healthcare administrator) -
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
Alternative Course of Events	
3a: If the username and password does not match, the system will clear field for re-entry	

- SSD



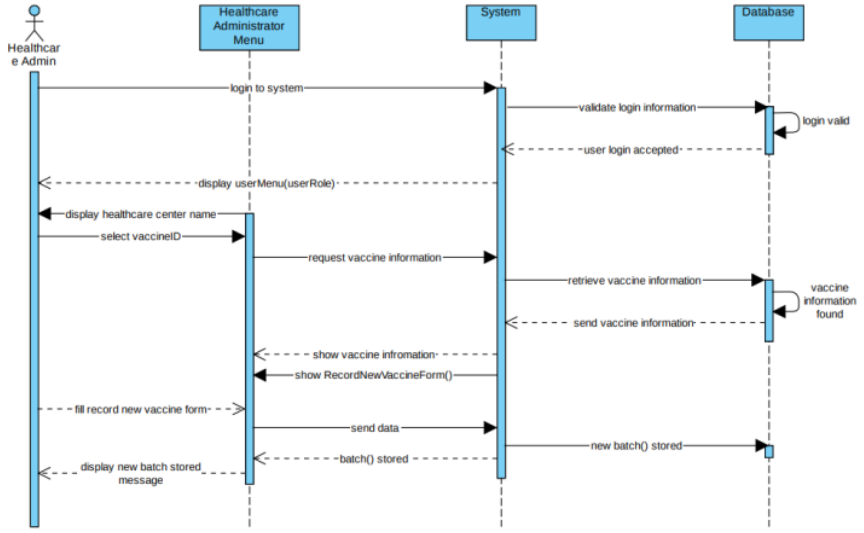
- Contract

Cross References	Login

Operation	Login(username, password)
Responsible	allow the user to access menu and feature according to the user's role
Pre-conditions	- Username and password should valid
Post-conditions	**If** login valid - Directed to healthcare administrator/patient menu page - Login session started **Else** - Clear both field for re-entry - Login session pending

3) **Record New Vaccine Batch** (developed)

- SSD



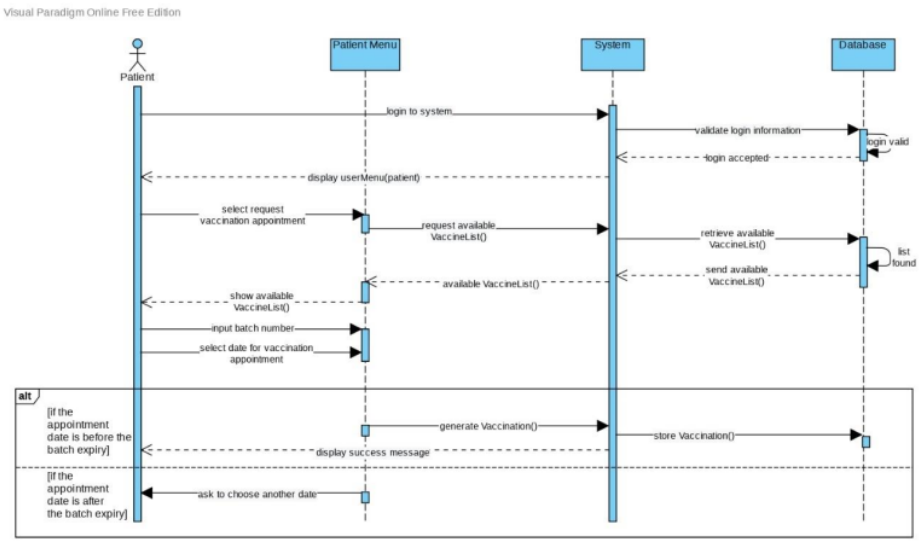
- Contract

Cross References	**Record new vaccine batch**
Operation	Login(username, password)
Responsible	allow healthcare administrator to access menu and feature
Pre-conditions	- Username and password should valid

Post-conditions	- 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	- New vaccine batch number, expiry date and the quantity of doses should available
Post-conditions	- New batch of vaccine recorded - Display success message

4) Request Vaccination Appointment (updated & developed)

- SSD



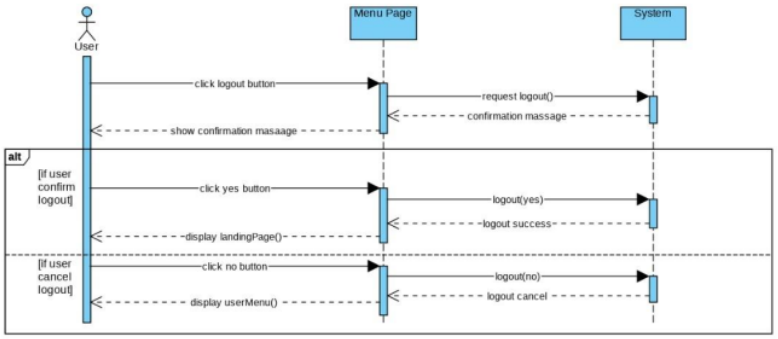
- Contract

Cross References	**Request vaccination appointment**
Operation	Login(username, password)
Responsible	allow patient to access menu and feature
Pre-conditions	- Username and password should valid

Post-conditions	- 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	- Patient fullName displayed - Batch number selected - Date selected **If** date selected after batch expiry date **Then** patient select another date
Post-conditions	- vaccinationID generated - display success message

5) Logout

- SSD



- Contract

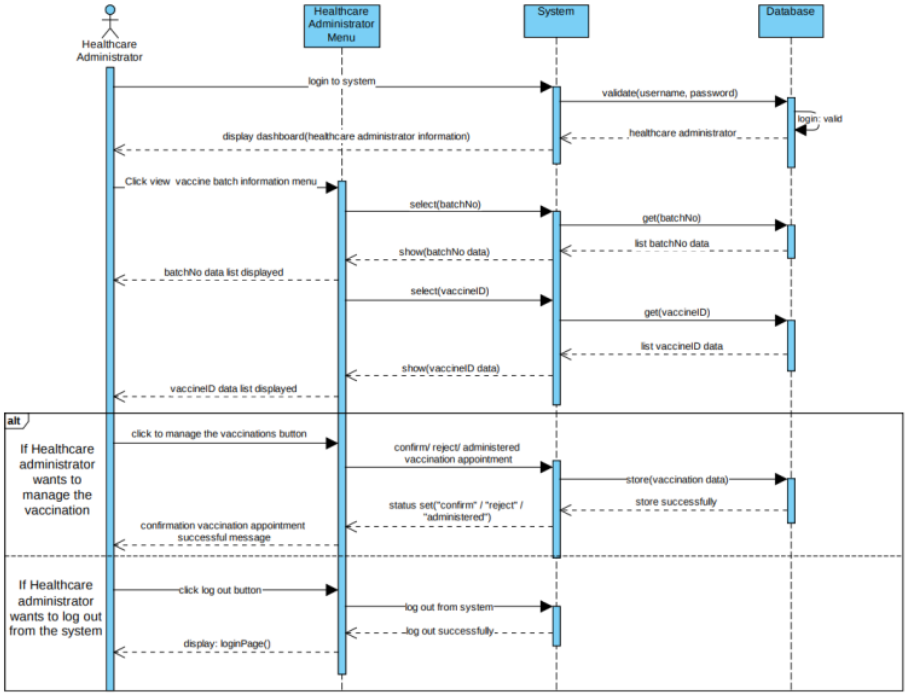
Cross References	**Logout**
Operation	Logout()
Responsible	allow the user to logout from the system
Pre-conditions	- Session started - Click logout button

Post-conditions	**If** logout(yes) - Click yes on the confirmation message - Login session ended **else** - 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



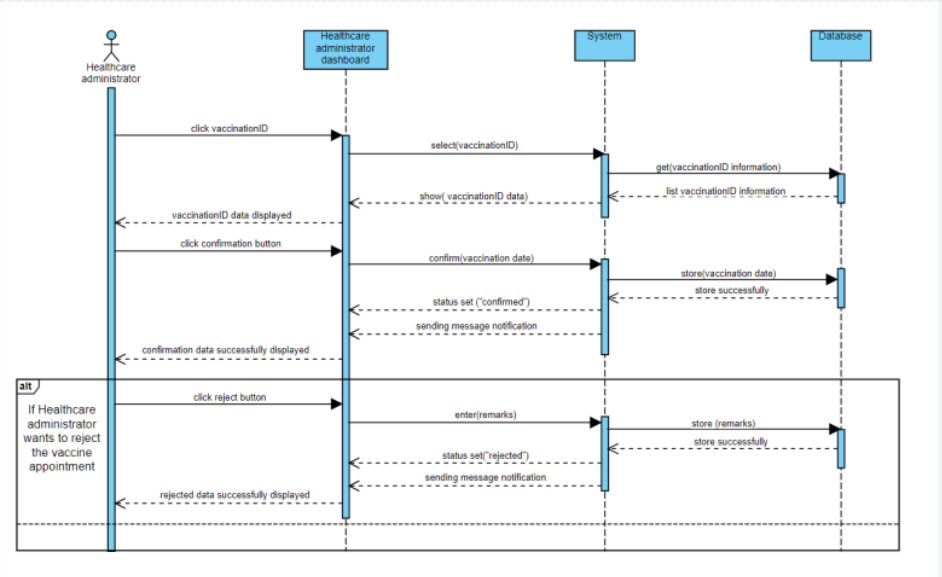
- Contract

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	- Healthcare administrator object must be available - Username and Password must be available
Post-conditions	- 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	- Healthcare administrator object must be available - Vaccine batch has been successfully created
Post-conditions	- Batch vaccine data list has been found - 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	- Healthcare administrator object must be available - Vaccination appointment data must be available
Post-conditions	- 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	- Healthcare administrator object must be available - Confirm to cancel logout
Post-conditions	- Redirect to login page

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

- SSD

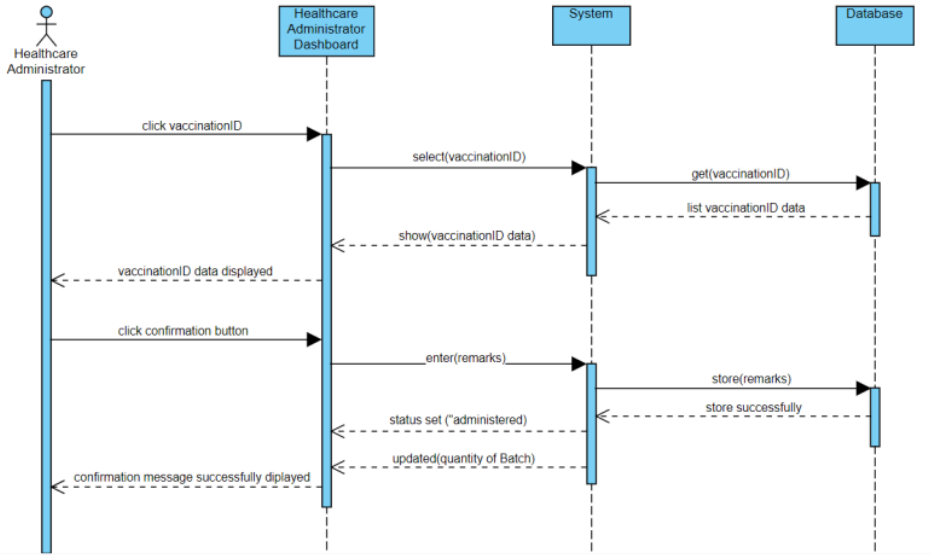


- Contract

Cross References	**Confirm Vaccination Appointment**
Operation	Confirm vaccination
Responsible	To permit the healthcare administrator to confirm the vaccination appointment
Pre-conditions	- Healthcare administrator object must be available - vaccinationID must be available
Post-conditions	- New status set to "confirm" - Sending a confirmation message - Display confirmation successful notification message **IF** Healthcare administrator reject the appointment - 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	- Healthcare administrator object must be available - vaccinationID must be available
Post-conditions	- New status set to "administered" - New remarks entered - Updating the quantity of Batch - Display confirmation successful message

9) View Vaccination Status (new & developed)

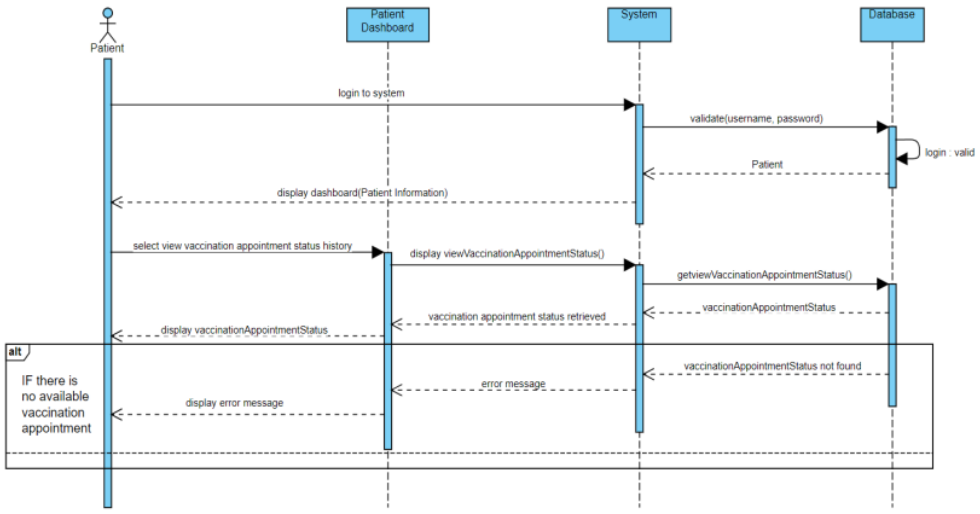
- Expanded Use Case

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

Secondary	-
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

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

Responsible	To permit the patient to access the patient's dashboard.
Pre-conditions	- Patient object must be available - Username and Password must be available
Post-conditions	- 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	- Patient object must be available
Post-conditions	- 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 **If** vaccination appointment status is unavailable - 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.

1) User Table

Field Name	Data Type	Field	Description	Example
Id	Int	5	Administartor 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	Fullname 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

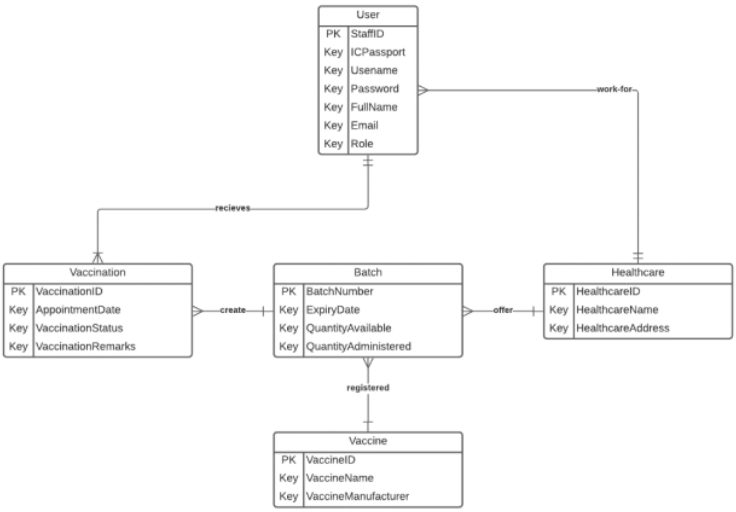
Field Name	Data Type	Field	Description	Example
batchNo	Varchar	15	Batch number of vaccine	87Y679
expiryDate	date		Expiry date of batch	12/12/2021
quantityAvailable	Int	5	Quantity available of batch	100
quantityAdministered	Int	5	Quantity administered of batch	50
vaccineID	Int	11	Vaccine ID	1
centreName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

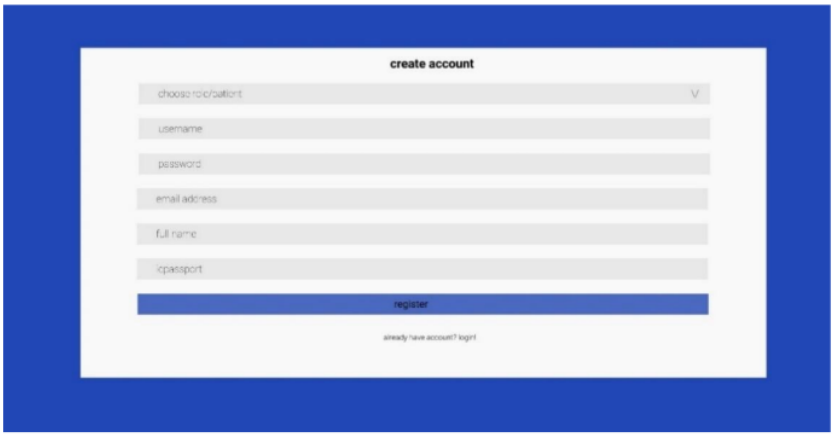
5. ERD

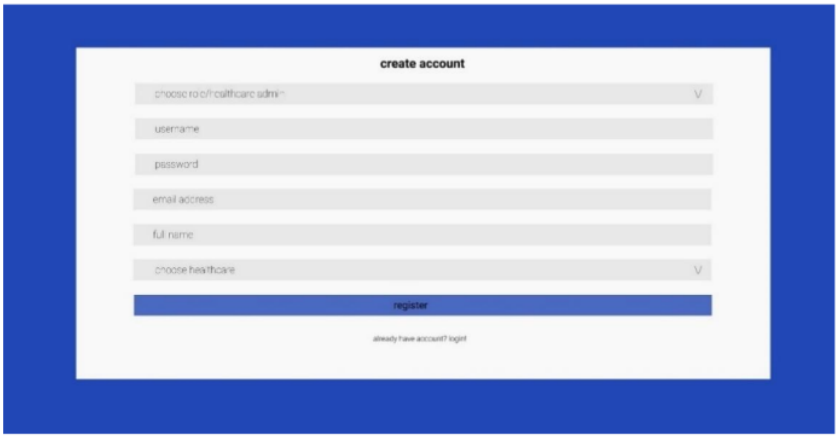
The ERD has not been altered; but, we have included the ERD that was previously provided in the submitted documents as a reference.

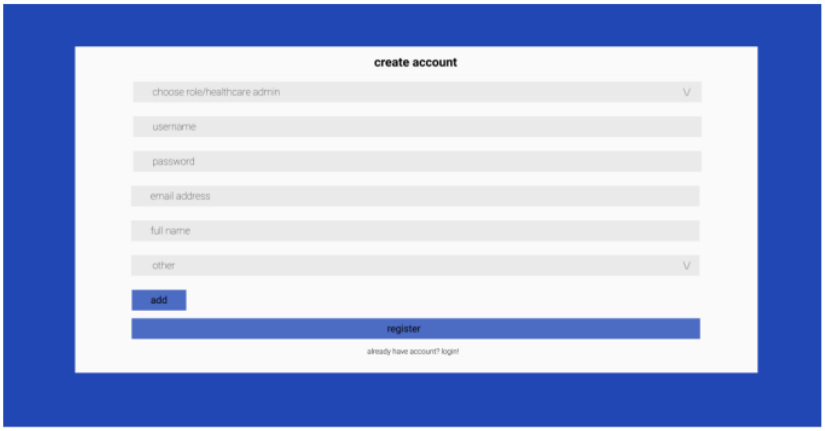


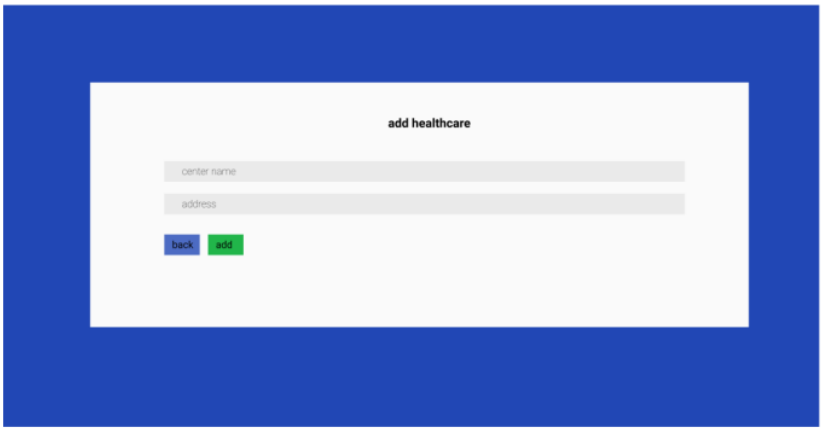
6. Wireframe

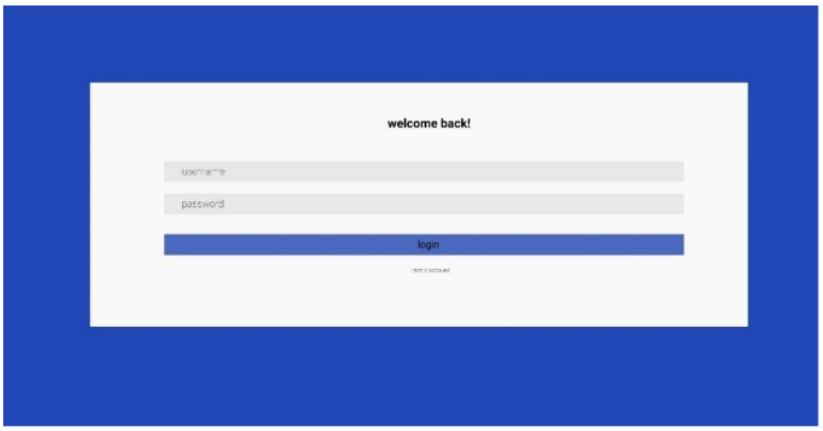
Due to the addition of one use case and updating the sign up use case, we also add one image for the view vaccination status wireframe and two image for the sign up use case, other than that the wireframe stays the same. We have included the wireframe that was originally supplied in the submitted materials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

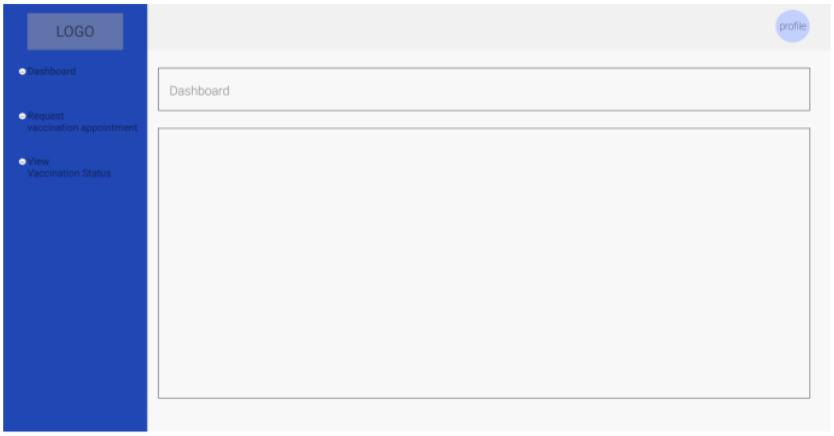


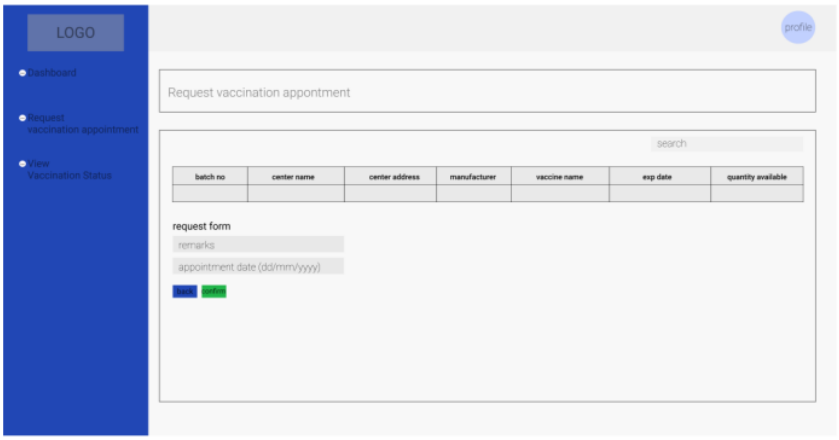


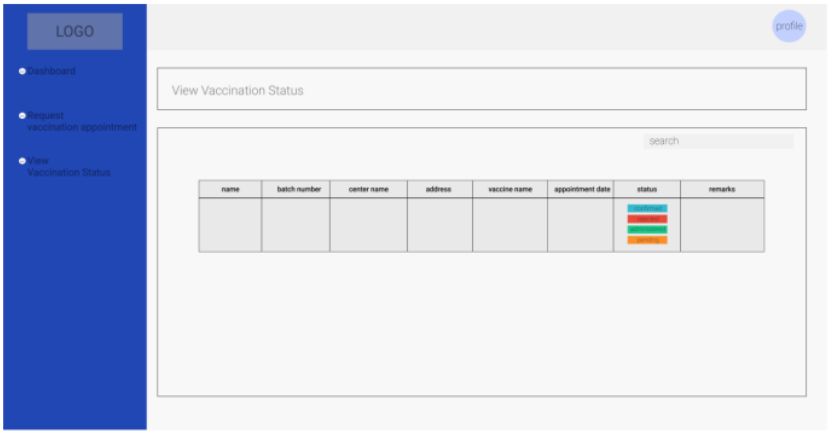

create account
choose role/healthcare admin
username
password
email address
full name
other
add
register
already have account? login!

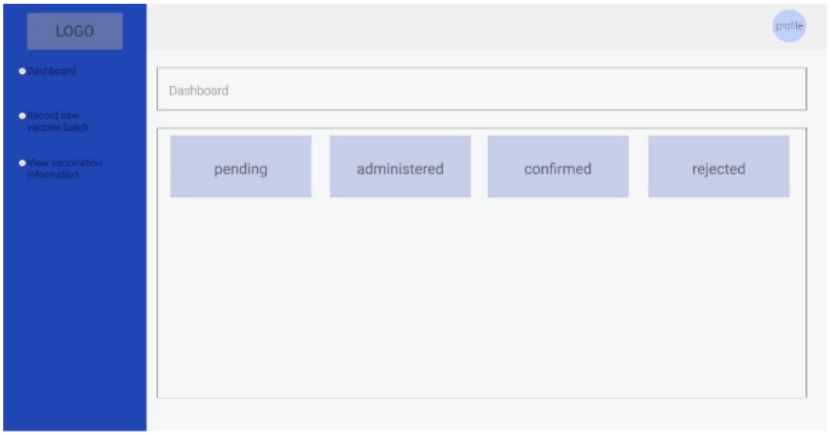

add healthcare
center name
address
back
add

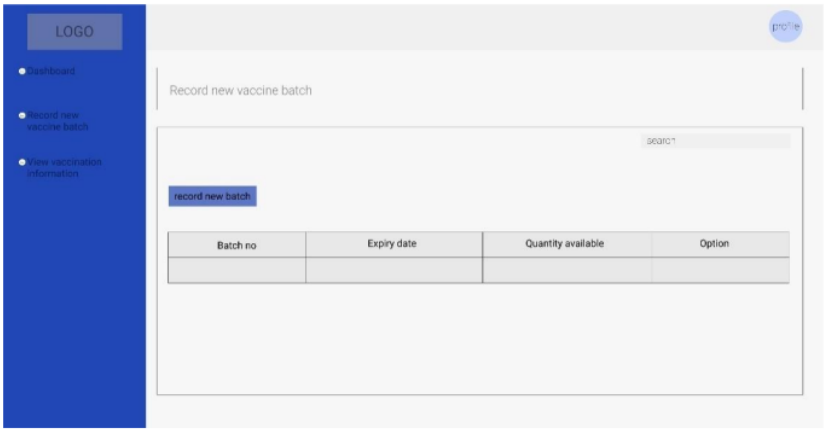

welcome back!
password
login

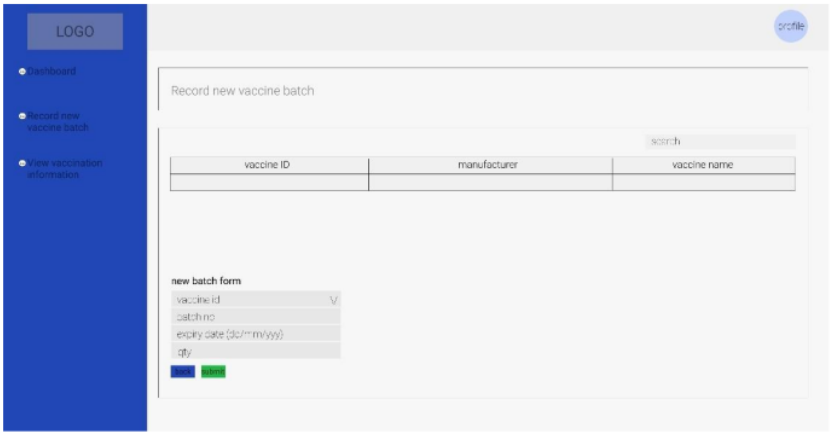

LOGO
profile
Dashboard
Request vaccination appointment
View Vaccination Status
Dashboard

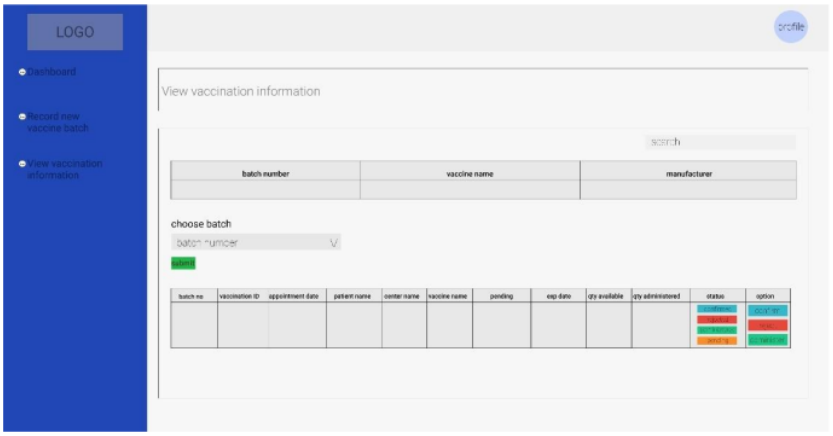

LOGO
profile
Dashboard
Request vaccination appointment
View Vaccination Status
Request vaccination appontment
search
batch no
center name
center address
manufacturer
vaccine name
exp date
quantity available
request form
remarks
appointment date (dd/mm/yyyy)
back
confirm


LOGO
profile
Dashboard
Request vaccination appointment
View Vaccination Status
View Vaccination Status
search
name
batch number
center name
address
vaccine name
appointment date
status
remarks


LOGO
profile
Dashboard
Record new vaccine batch
View vaccination information
Dashboard
pending
administered
confirmed
rejected


LOGO
Dashboard
Record new vaccine batch
View vaccination information
Record new vaccine batch
search
record new batch
Batch no
Expiry date
Quantity available
Option


LOGO
profile
Dashboard
Record new vaccine batch
View vaccination information
Record new vaccine batch
search
vaccine ID
manufacturer
vaccine name
new batch form
vaccine id
batch no
expiry date (dd/mm/yyy)
qty
back
submit


LOGO
profile
Dashboard
Record new vaccine batch
View vaccination information
View vaccination information
search
batch number
vaccine name
manufacturer
choose batch
batch number
submit
batch no
vaccination ID
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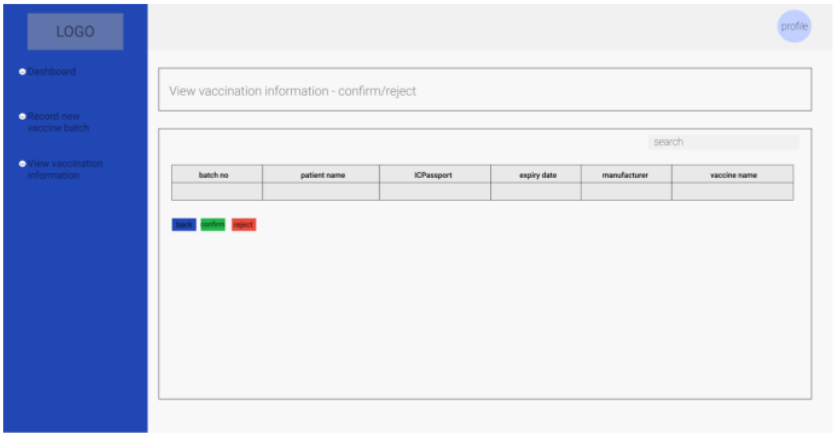
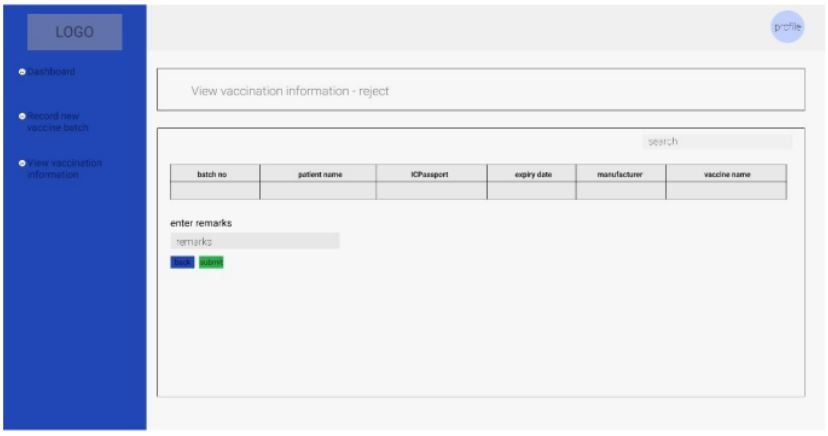
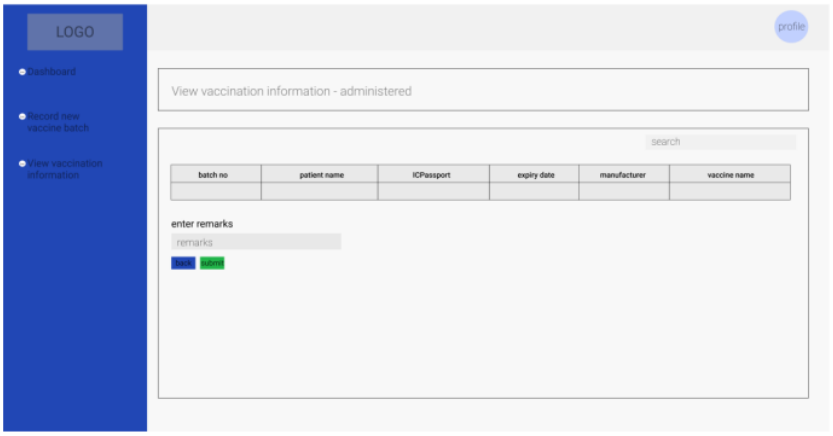
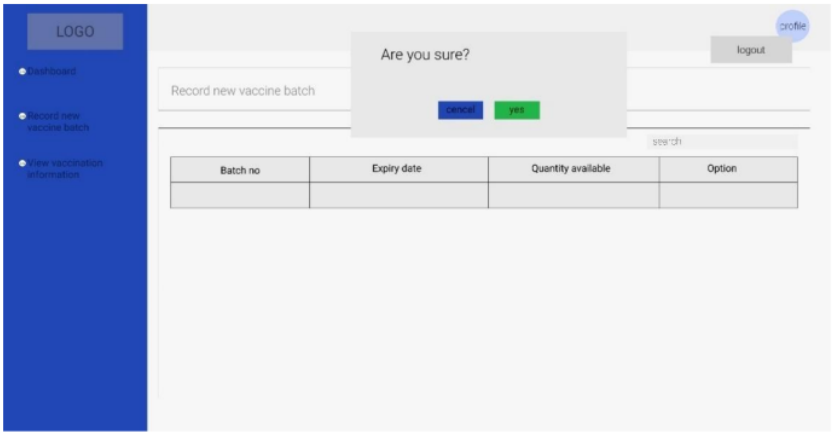
patient name
center name
vaccine name
pending
exp date
qty available
qty administered
status
option


LOGO
profile
Dashboard
Record new vaccine batch
View vaccination information
View vaccination information - confirm/reject
search
batch no
patient name
ICPassport
expiry date
manufacturer
vaccine name
back
confirm
reject


LOGO
profile
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
back
submit


LOGO
profile
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
back
submit



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

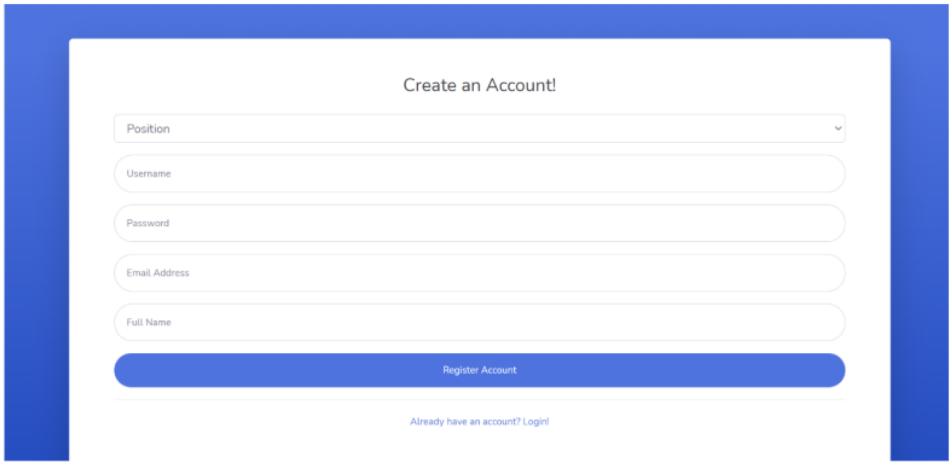
No.	Use Case	Develop by

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

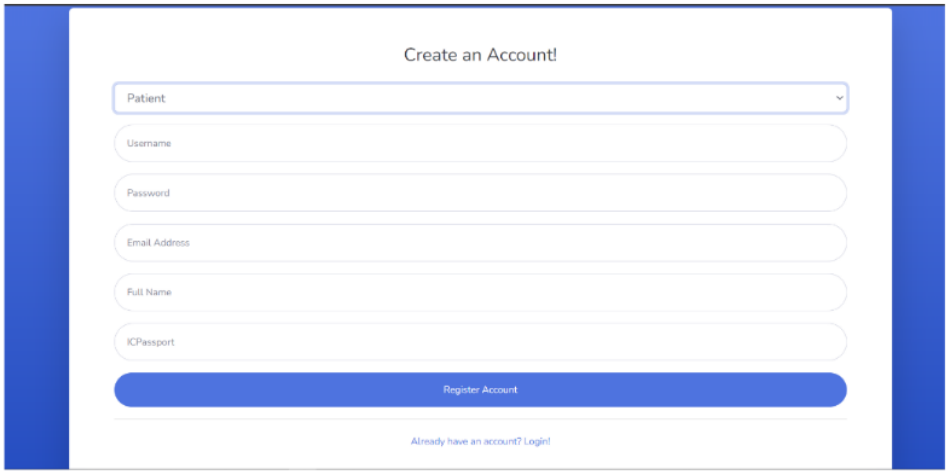
Hereby we show screenshots of our website's sample of various cases

1) Sign Up/Registration



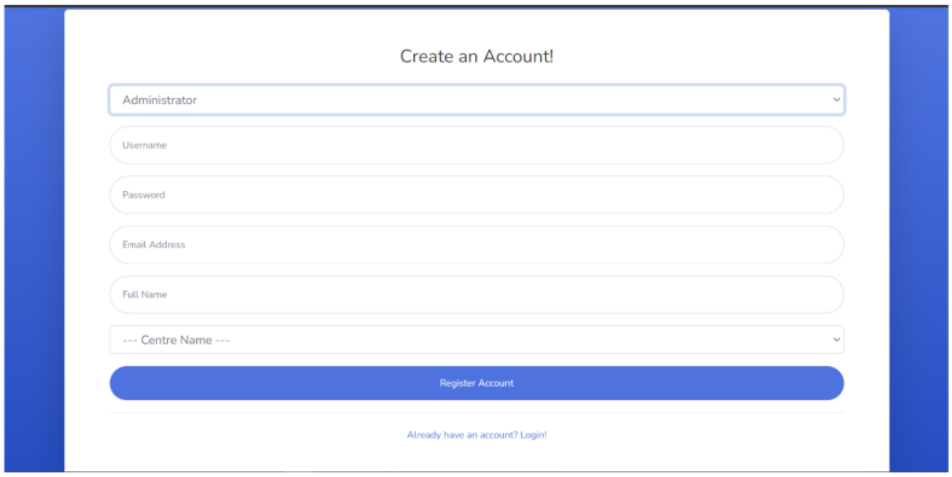
- If user is a patient

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

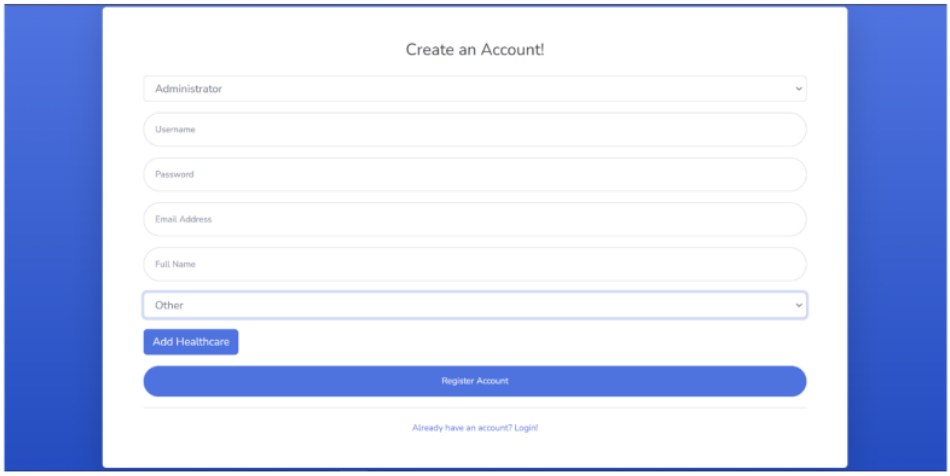


- If user is a healthcare administrator

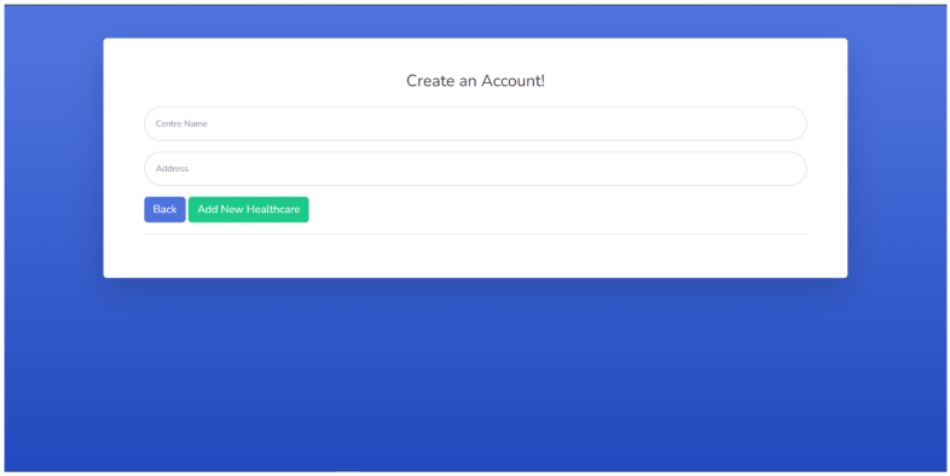
  User then choose role, if user is a healthcare admin, the center name field shown, admin then choose a healthcare to assign



When healthcare admin choose to add healthcare center

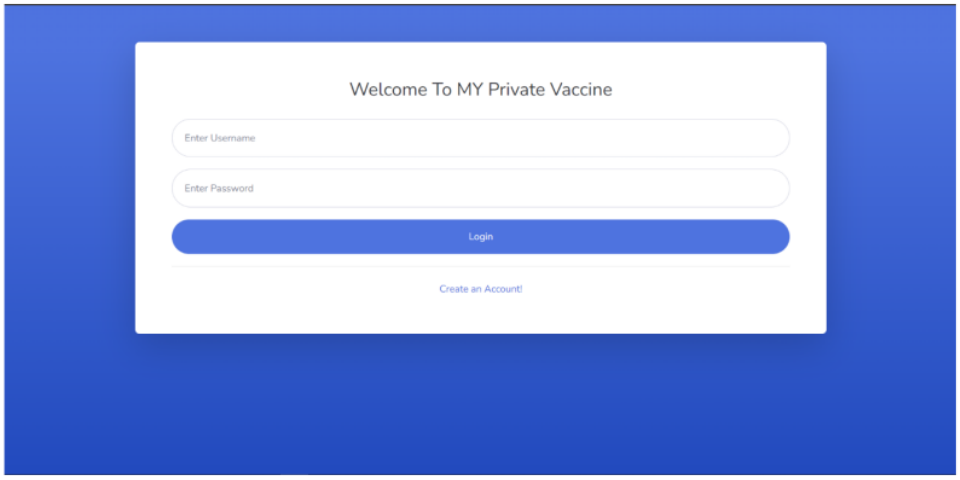


Healthcare administrator click add button



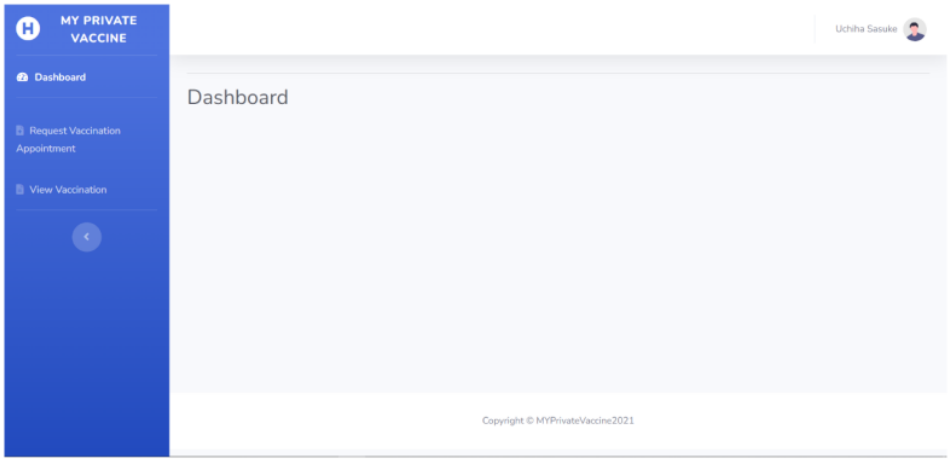
2) Login

This is the login page

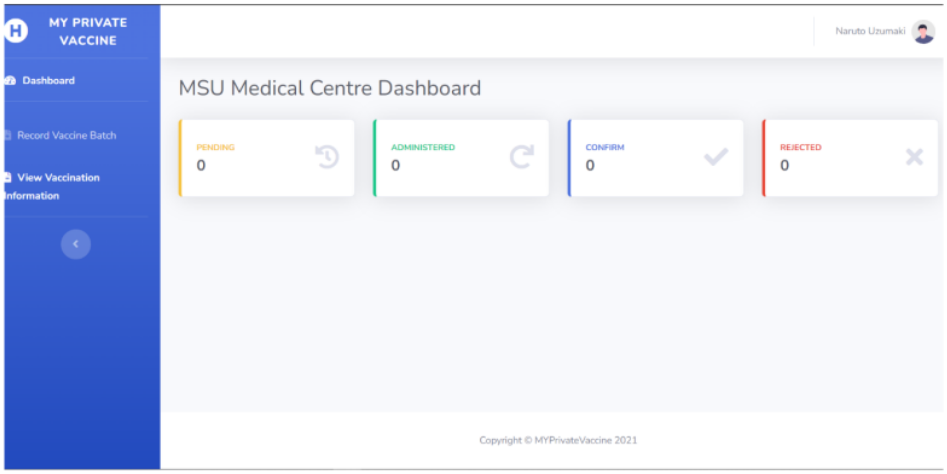


When patient enter match password and username, display menu based on their role

- If user is a patient

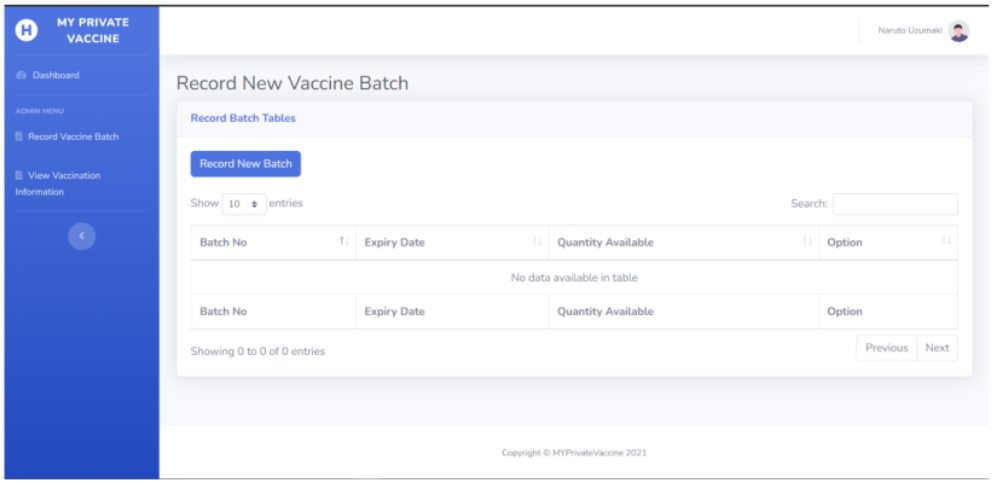


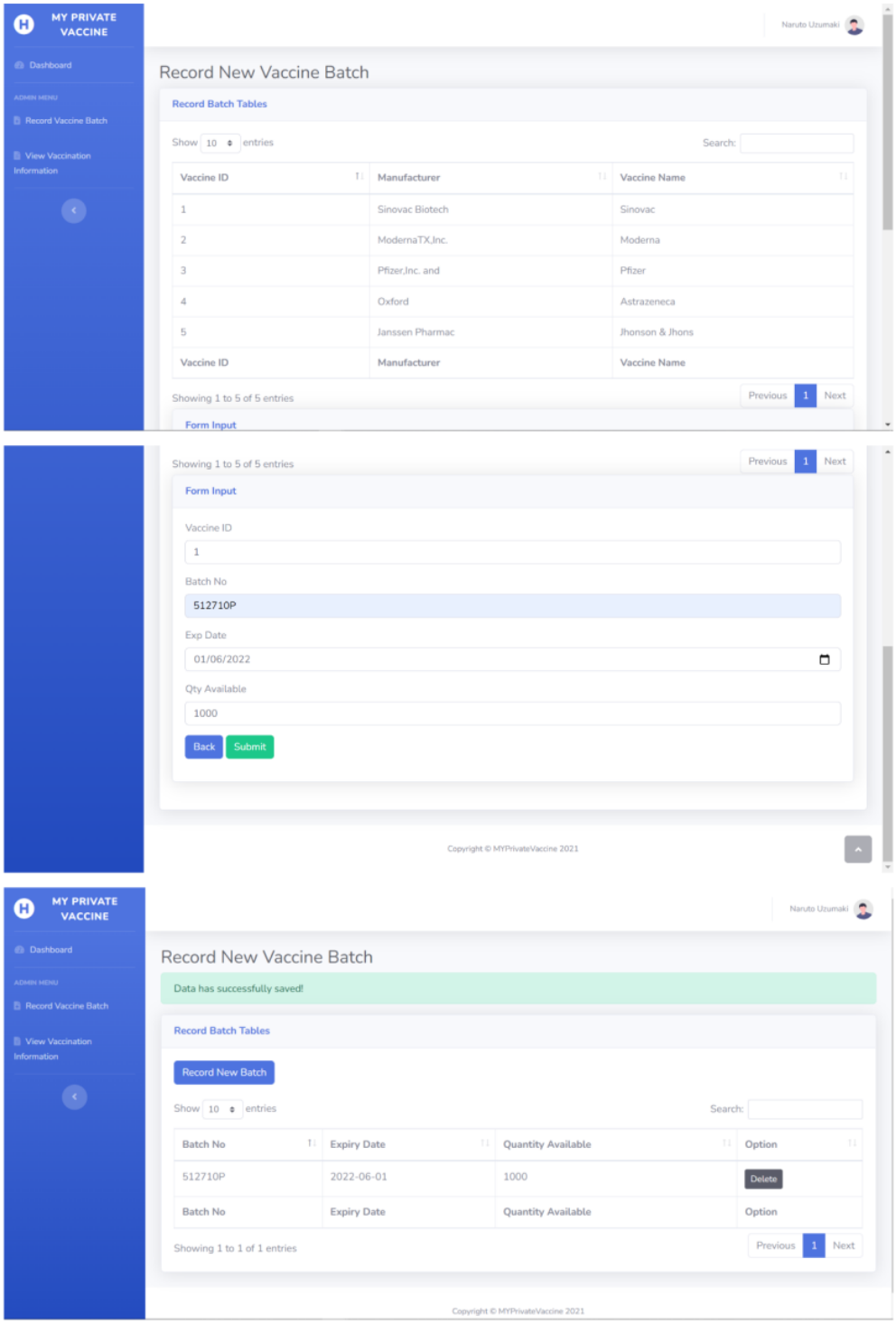
- If user is a healthcare administrator



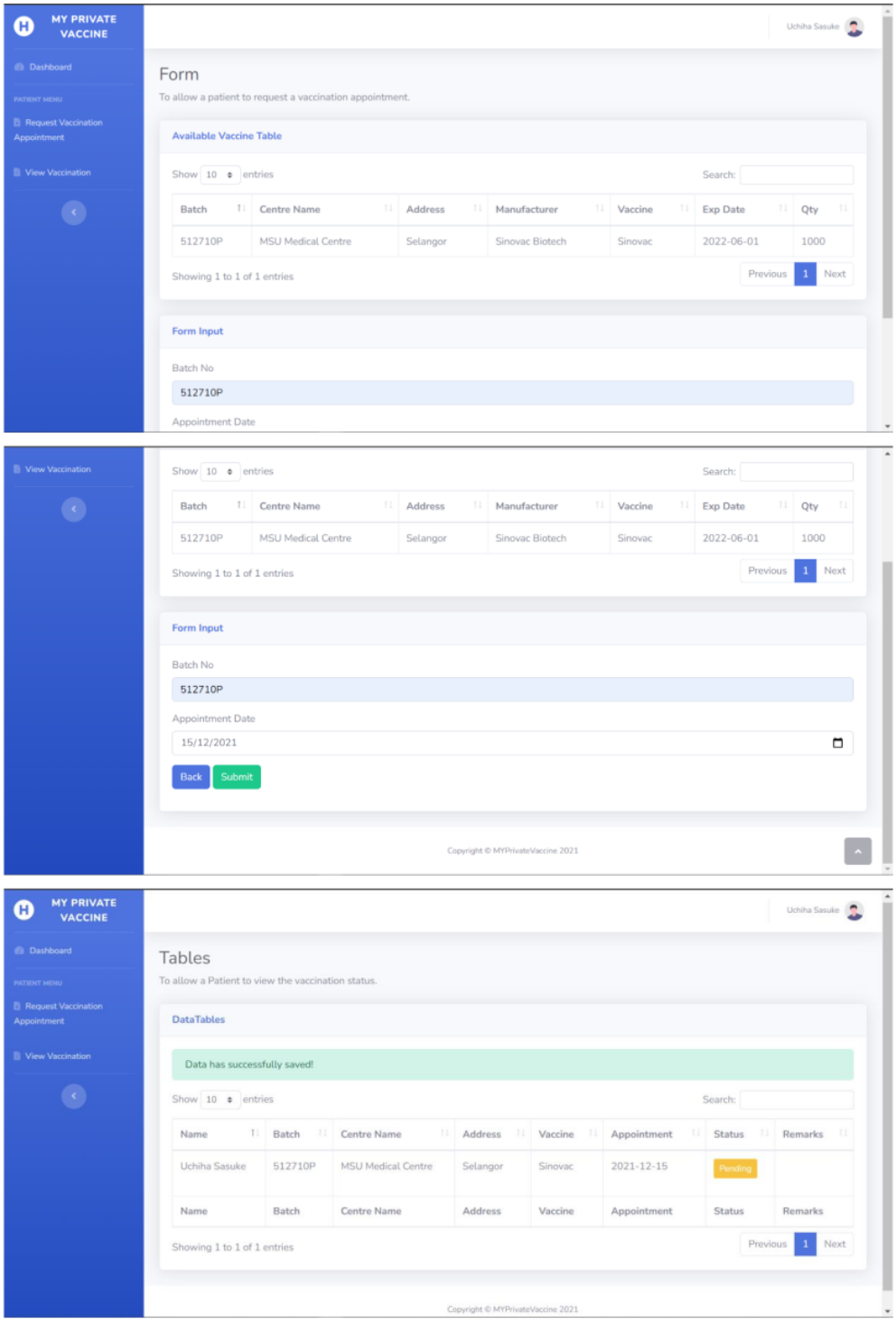
3) Record New Vaccine Batch

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



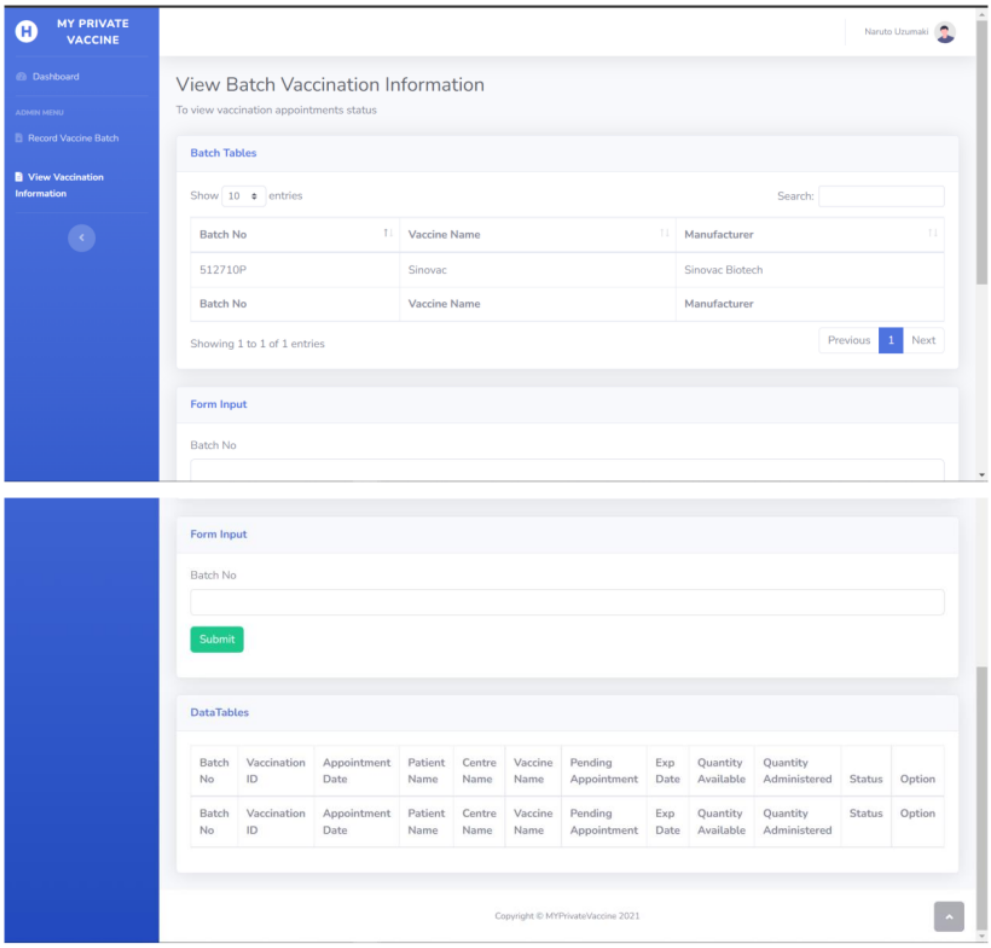


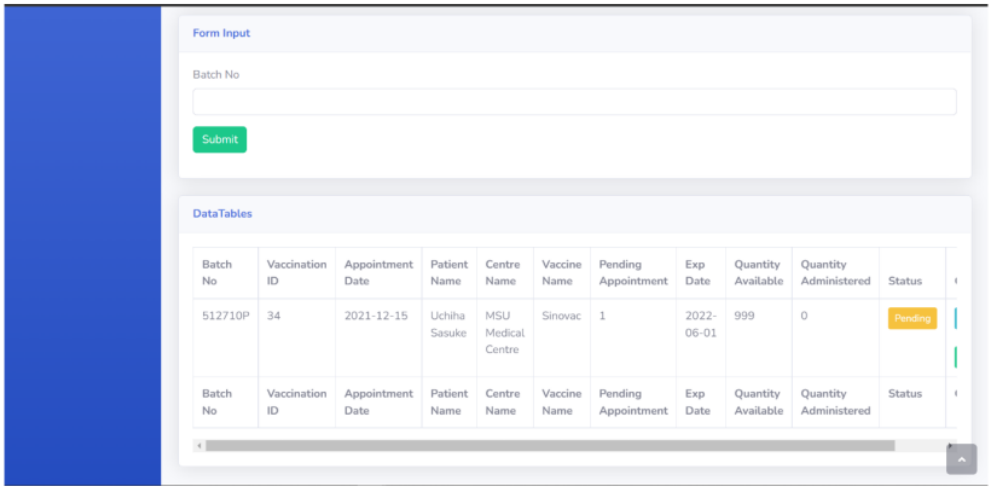
4) Request Vaccination Appointment



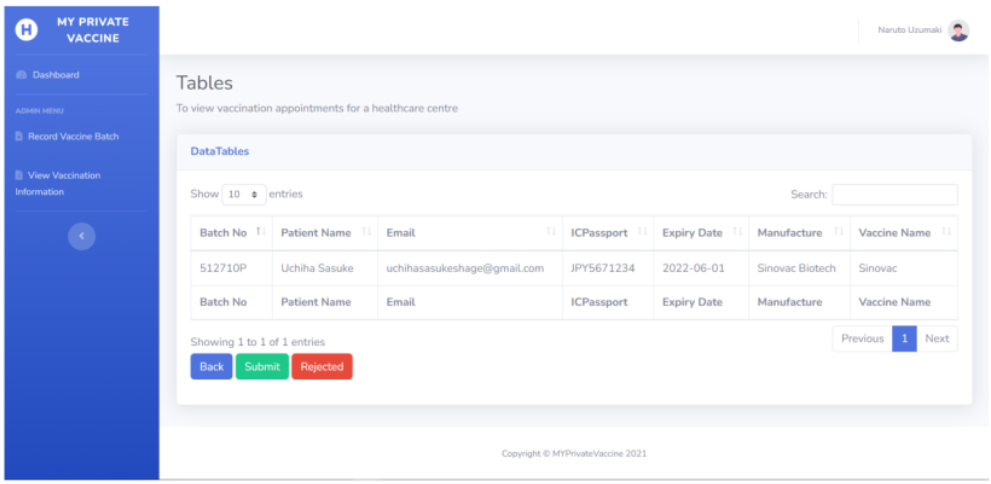
5) View Vaccine Information

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

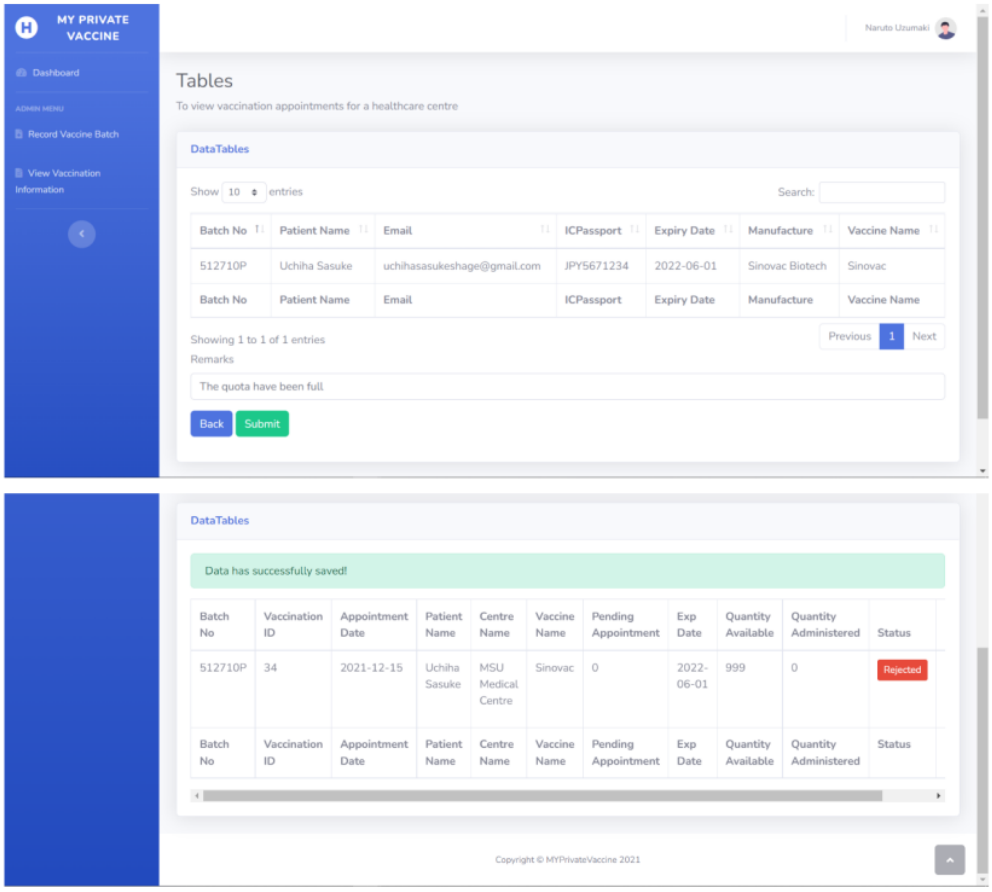




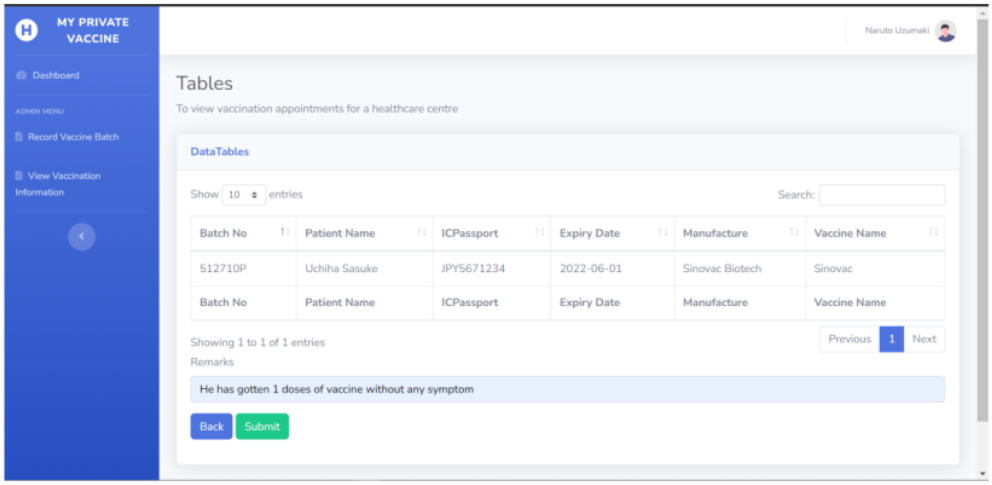
6) Confirm Vaccination Appointment

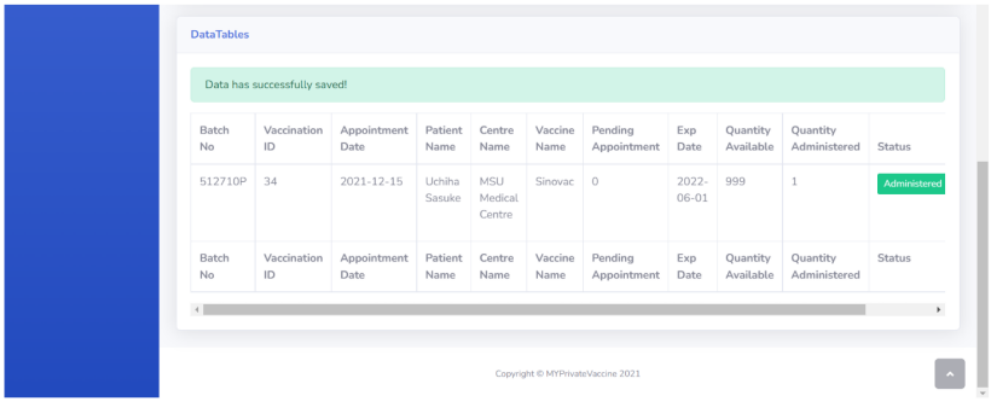


7) Reject Vaccination Appointment

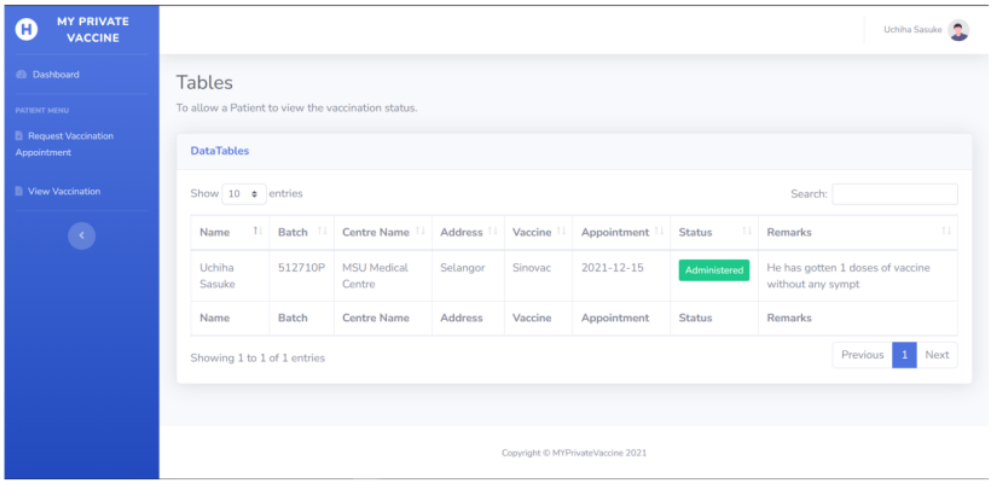


8) Record Vaccination Administered

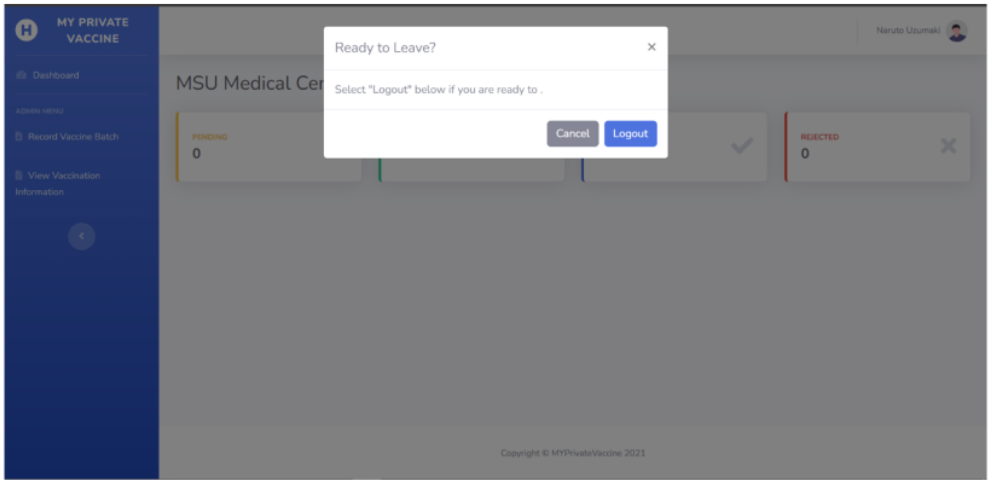




9) View Vaccination Status



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				
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	- Username: uchiha - Password: sasuke123 - Email: uchihasasuke@gmail.com - Full Name: Uchiha Sasuke - ICPaspport: 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:	- Username: - Password: - Email: - Full Name: - ICPaspport:	Warning message displayed, stay on the sign up page	Warning message displayed, stay on the sign up page	pass

Test case 3:	- Username: uchiha - Password: itachi123 - Email: itachiuchiha@gmail.com - Full Name: Itachi Uchiha ICPaspport: 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 Description	To allow user(healthcare administrator) to register to the system			
Source Code				
	Test Data		Expected output	Actual output	Remark(s)
Test case 1:	- 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:	- Username: - Password:		Warning message	Warning message	Pass

	- Email: - Full Name: - Center Name:	displayed, stay on the sign up page	displayed, stay on the sign up page	
Test case 3:	- 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)

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			
Source code				
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- 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

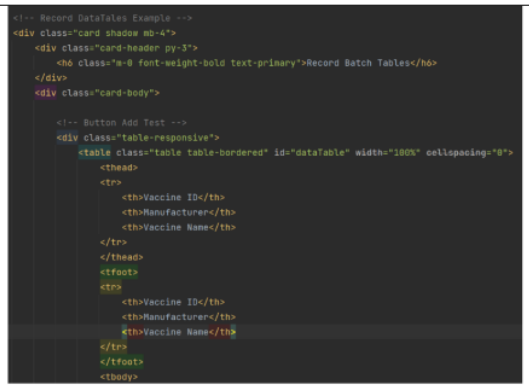
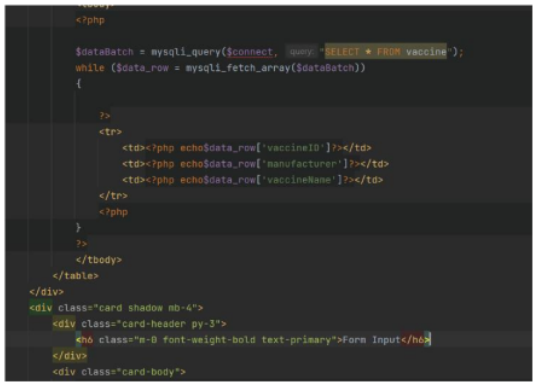
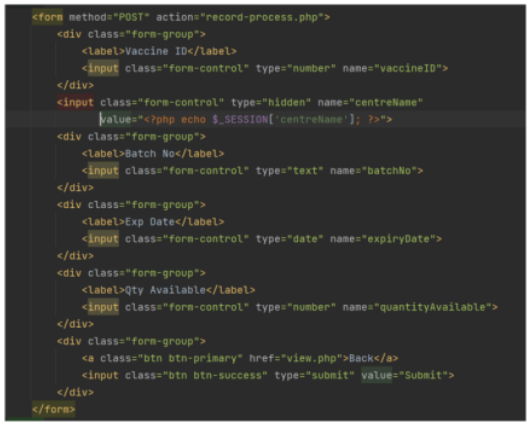
		stored in the database.	the database.	

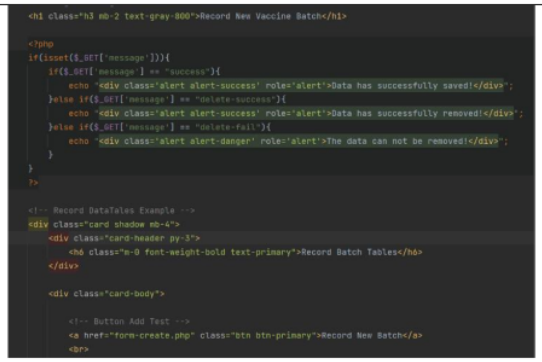
4) Login

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			
Source Code				
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	- Username: uchiha - Password: sasuke123	Direct to patient home page	Direct to patient home page	Pass
Test case 2:	- 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:	- 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

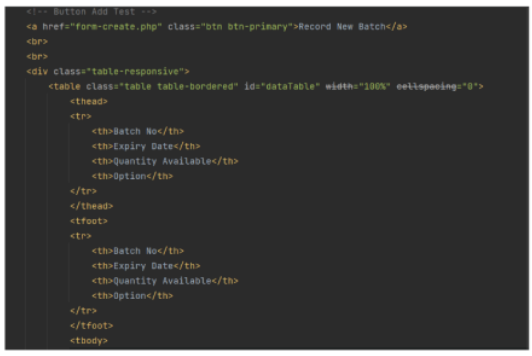
5) Record New Vaccine Batch

Test ID	R-05

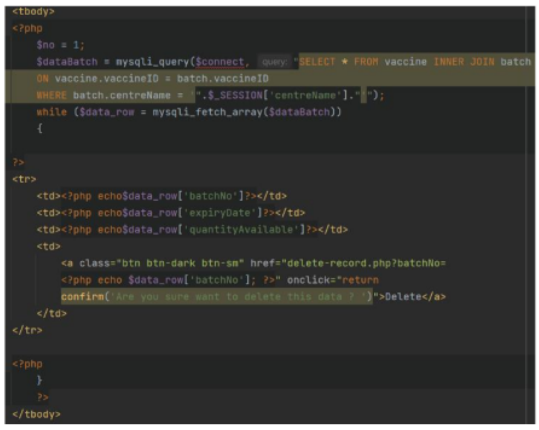
Use case	Record New Vaccine Batch
Test description	To allow administrator to record new vaccine batch
Source code	  



```
<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 -->
        <a href="form-create.php" class="btn btn-primary">Record New Batch</a>
        <br>
```



```
<!-- Button Add Test -->
<a href="form-create.php" class="btn btn-primary">Record New Batch</a>
<br>
<br>
<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>Option</th>
        </tr>
        </thead>
        <tfoot>
        <tr>
            <th>Batch No</th>
            <th>Expiry Date</th>
            <th>Quantity Available</th>
            <th>Option</th>
        </tr>
        </tfoot>
        <tbody>
```



```
<tbody>
<?php
    $no = 1;
    $dataBatch = mysqli_query($connect, query: "SELECT * FROM vaccine INNER JOIN batch
    ON vaccine.vaccineID = batch.vaccineID
    WHERE batch.centreName = '".$_SESSION['centreName']."'");
    while ($data_row = mysqli_fetch_array($dataBatch))
    {

?>
<tr>
    <td><?php echo$data_row['batchNo']?></td>
    <td><?php echo$data_row['expiryDate']?></td>
    <td><?php echo$data_row['quantityAvailable']?></td>
    <td>
        <a class="btn btn-dark btn-sm" href="delete-record.php?batchNo=
        <?php echo $data_row['batchNo']; ?>" onclick="return
        confirm('Are you sure want to delete this data ? ')">Delete</a>
    </td>
</tr>

<?php
    }
    ?>
</tbody>
```

	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- 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	Request Vaccination Appointment
Test description	To allow user to request vaccination appointment

Source code

```
<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,
        query: "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)){
        ?>
```

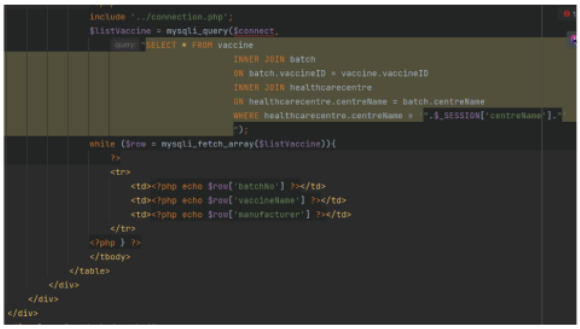
```
                <tr>
                    <td><?php echo $row['batchNo'] ?></td>
                    <td><?php echo $row['centreName'] ?></td>
                    <td><?php echo $row['address'] ?></td>
                    <td><?php echo $row['manufacturer'] ?></td>
                    <td><?php echo $row['vaccineName'] ?></td>
                    <td><?php echo $row['expiryDate'] ?></td>
                    <td><?php echo $row['quantityAvailable'] ?></td>
                </tr>
            <?php } ?>
            </tbody>
        </table>
    </div>
</div>
</div>

<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">
        <a class="btn btn-primary" href="../view-vaccination/view.php">Back</a>
        <input class="btn btn-success" type="submit" value="Submit">
    </div>
</form>
```

	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- 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:	- 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	 

```php
<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">
        <?php
        if(isset($_GET['message'])){
            if($_GET['message'] == "message"){
                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="">
            <div class="form-group">
                <label>Batch No</label>
                <input class="form-control" type="text" name="batchNo">
            </div>
            <div class="form-group">
                <input class="btn btn-success" type="submit" name="submit" value="Submit">
            </div>
        </form>
    </div>
</div>
```

```php
<table class="table table-bordered" id="dataTable" width="100%" cellspacing="0">
    <thead>
    <tr>
        <th>Batch No</th>
        <th>Vaccination ID</th>
        <th>Appointment Date</th>
        <th>Patient Name</th>
        <th>Centre Name</th>
        <th>Vaccine Name</th>
        <th>Pending Appointment</th>
        <th>Exp Date</th>
        <th>Quantity Available</th>
        <th>Quantity Administered</th>
        <th>Status</th>
        <th>Option</th>
    </tr>
    </thead>
    <tfoot>
    <tr>
        <th>Batch No</th>
        <th>Vaccination ID</th>
        <th>Appointment Date</th>
        <th>Patient Name</th>
        <th>Centre Name</th>
        <th>Vaccine Name</th>
        <th>Pending Appointment</th>
```

```php
        <th>Patient Name</th>
        <th>Centre Name</th>
        <th>Vaccine Name</th>
        <th>Pending Appointment</th>
        <th>Exp Date</th>
        <th>Quantity Available</th>
        <th>Quantity Administered</th>
        <th>Status</th>
        <th>Option</th>
    </tr>
    </tfoot>
    <tbody>
    <?php
    include '../connection.php';
    error_reporting( error_level: E_ERROR | E_PARSE);

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

```php
$countVaccineConfirm = mysqli_query($connect, "SELECT * FROM vaccination
                                               INNER JOIN batch
                                               ON vaccination.batchNo = batch.batchNo
                                               INNER JOIN vaccine
                                               ON vaccine.vaccineID = batch.vaccineID
                                               WHERE status = 'Confirm'
                                               AND batch.batchNo = '$batchNo'
                                               ");
$totalConfirm = mysqli_num_rows($countVaccineConfirm);

$countVaccineReject = mysqli_query($connect, "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);
```

```php
$countVaccineAdministered = mysqli_query($connect, "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,
    "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)){
    ?>
```

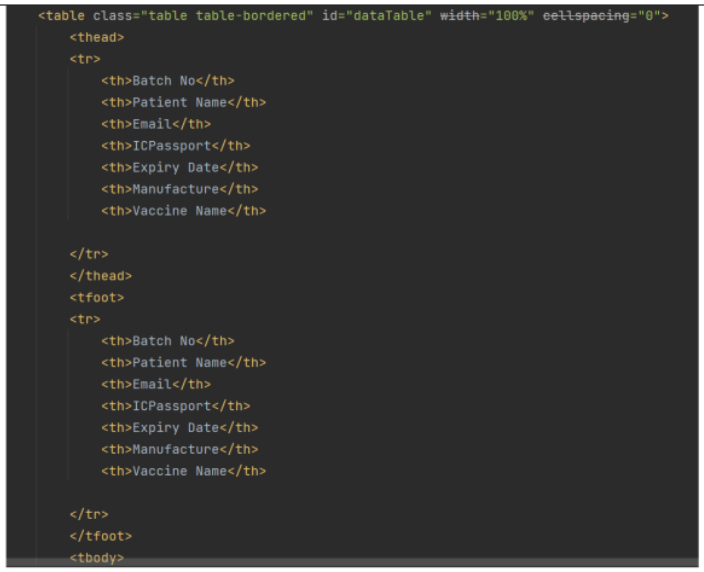
```php
<tr>
    <td><?php echo $row['batchNo'] ?></td>
    <td><?php echo $row['vaccinationID'] ?></td>
    <td><?php echo $row['appointmentDate'] ?></td>
    <td><?php echo $row['fullname'] ?></td>
    <td><?php echo $row['centreName'] ?></td>
    <td><?php echo $row['vaccineName'] ?></td>
    <td><?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 }?>
```

```php
        <td>
            <a href="../confirm-vaccination/create.php?vaccinationID=
            <?php echo $row['vaccinationID']; ?>" class="btn btn-info btn-sm">Confirm</a>
            <br>
            <br>
            <a href="../record-vaccination-admin/create.php?vaccinationID=
            <?php echo $row['vaccinationID']; ?>" class="btn btn-success btn-sm">Record</a>
        </td>
    </tr>
<?php } ?>
</tbody>
</table>
```

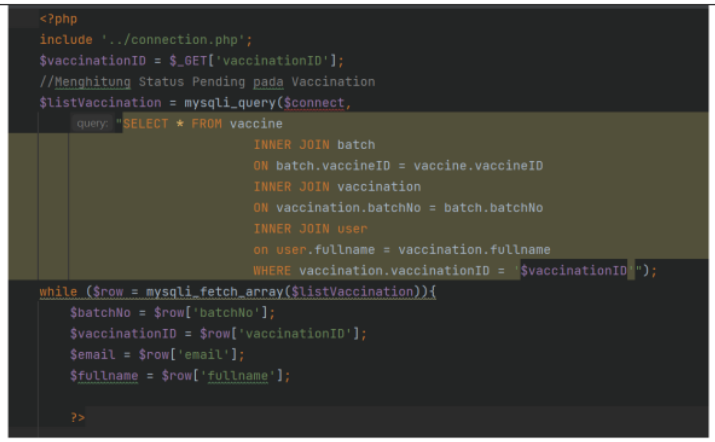
	Test data	Expected output	Actual output	Remark(s)

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

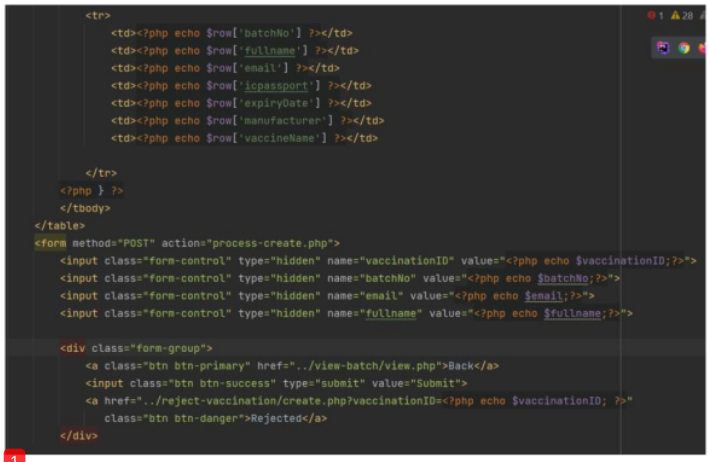
8) Confirm Vaccination Appointment

Test ID	R-08
Use case	Confirm Vaccination appointment
Test description	To allow user to confirm vaccination appointment
	

```
<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>
```



```php
<?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'];

    ?>
```

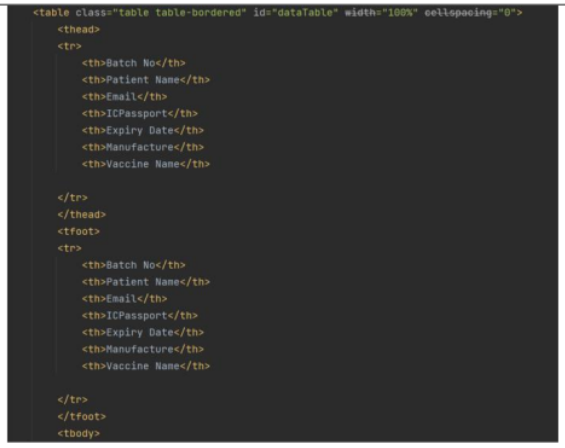
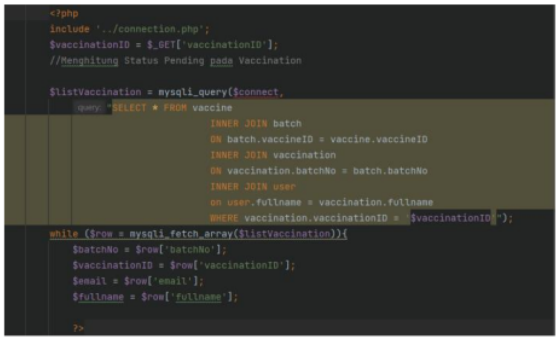


```php
        <tr>
            <td><?php echo $row['batchNo'] ?></td>
            <td><?php echo $row['fullname'] ?></td>
            <td><?php echo $row['email'] ?></td>
            <td><?php echo $row['icpassport'] ?></td>
            <td><?php echo $row['expiryDate'] ?></td>
            <td><?php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

	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

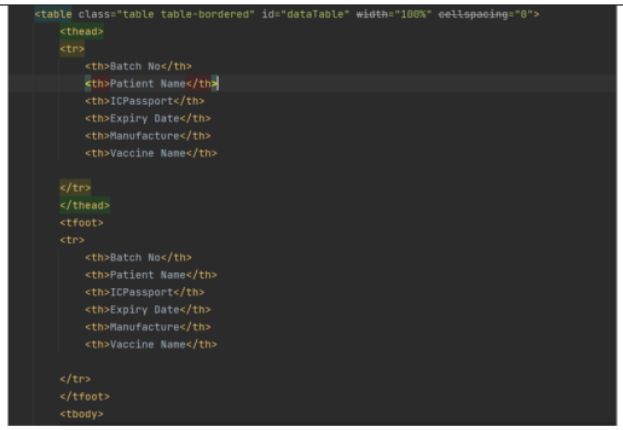
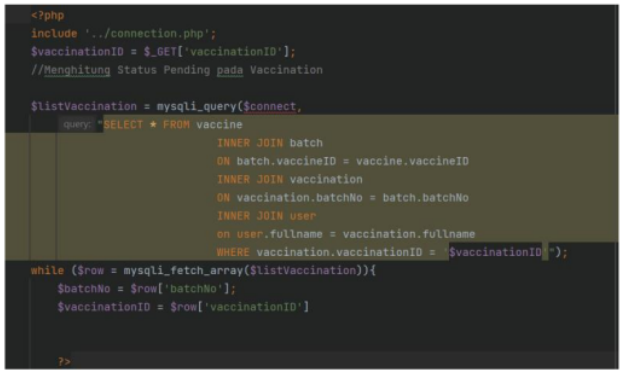
Test case 2	- Click Reject button	Redirect user to reject vaccination appointment page	Redirect user to reject vaccination appointment page	Pass
Test case 3	- Click Back button	Redirect user to view vaccination information page	Redirect user to view vaccination information page	Pass

9) Reject Vaccination Appointment

Test ID	R-09
Use case	Reject vaccination appointment
Test description	To allow user to reject vaccination appointment
Source code	 

			
	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 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 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
Source code	  

	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- 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

Source code

```
<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>
```

```
<?php
include '../connection.php';
$no = 1;

$countVaccine = mysqli_query($connect, query: "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)){
    ?>
```

```
    <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>
```

1

	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	<?php
	session_start();
	session_destroy();
	
	header(header: "location:../login.php");
	?>			

	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 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. 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:	- Username: uchiha - Password: sasuke123 - Email: uchihasasuke@gmail.com - Full Name: Uchiha Sasuke - ICPaspport: 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:	- Username: - Password: - Email: - Full Name: - ICPaspport:	Warning message displayed, stay on the sign up page	Warning message displayed, stay on the sign up page	pass
Test case 3:	- Username: uchiha - Password: itachi123 - Email: itachiuchiha@gmail.com - Full Name: Itachi Uchiha - ICPaspport: 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 Description	To allow user(healthcare administrator) to register to the system			
	Test Data	Expected output	Actual output	Remark(s)

Test case 1:	- 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:	- 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:	- 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)

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			
	Test data	Expected output	Actual output	Remark(s)

Test case 1:	- 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.	Pass

4) Login

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:	- Username: uchiha - Password: sasuke123	Direct to patient home page	Direct to patient home page	Pass
Test case 2:	- 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:	- 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

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:	- 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:	- 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	Request Vaccination Appointment			
Test description	To allow user to request vaccination appointment			
	Test data	Expected output	Actual output	Remark(s)

Test case 1:	- 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:	- 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-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	Detail Batch information Displayed, user stay in view	Pass

		information page	vaccination information page	

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 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			
	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 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 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:	- 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-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 displayed	Confirmation message displayed	Pass
Test Case 2:	Click 'cancel' button on the logout confirmation	Stay on the pervious page	Stay on the 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

3. System Testing

- Functional Requirements

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:	- Username: uchiha - Password: sasuke123 - Email: uchihasasuke@gmail.com - Full Name: Uchiha Sasuke - ICPaspport: 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:	- Username: - Password: - Email: - Full Name: - ICPaspport:	Warning message displayed, stay on the sign up page	Warning message displayed, stay on the sign up page	pass
Test case 3:	- Username: uchiha - Password: itachi123 - Email: itachiuchiha@gmail.com - Full Name: Itachi Uchiha - ICPaspport: 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 Description	To allow user(healthcare administrator) to register to the system			
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	- 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:	- Username: - Password:	Warning message	Warning message	Pass

	- Email: - Full Name: - Center Name:	displayed, stay on the sign up page	displayed, stay on the sign up page	
Test case 3:	- 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)

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			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- 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.	Pass

4) Login

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:	- Username: uchiha - Password: sasuke123	Direct to patient home page	Direct to patient home page	Pass
Test case 2:	- 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:	- 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

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:	- 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	Request Vaccination Appointment			
Test description	To allow user to request vaccination appointment			
	Test data	Expected output	Actual output	Remark(s)
Test case 1:	- 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:	- 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

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:	- 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

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:	- 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

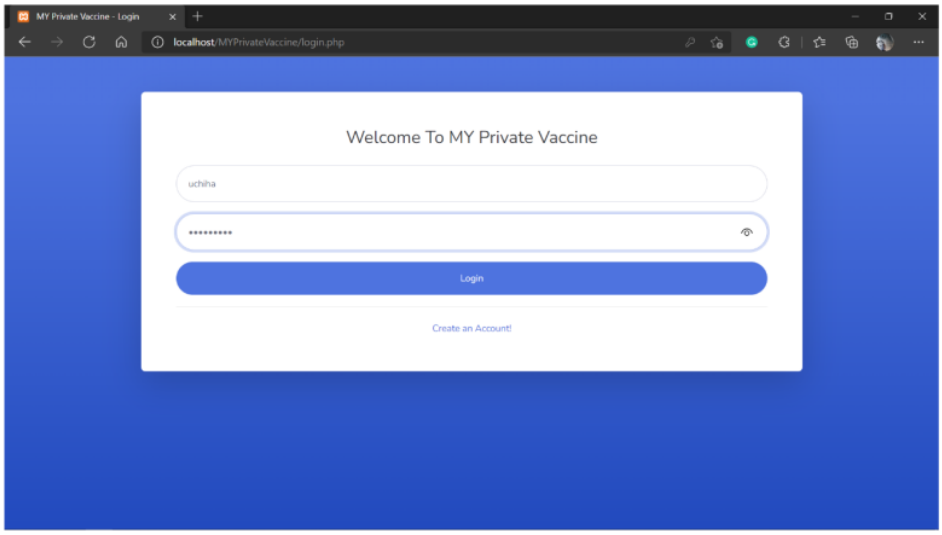
Test ID	R-04			
Use Case	Logout			
Test Description	To allow user to logout from the system			
	Test Data	Expected output	Actual output	Remark(s)
Test Case 1:	Click logout button	Confirmation message displayed	Confirmation message displayed	Pass
Test Case 2:	Click 'cancel' button on the logout confirmation	Stay on the pervious page	Stay on the 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

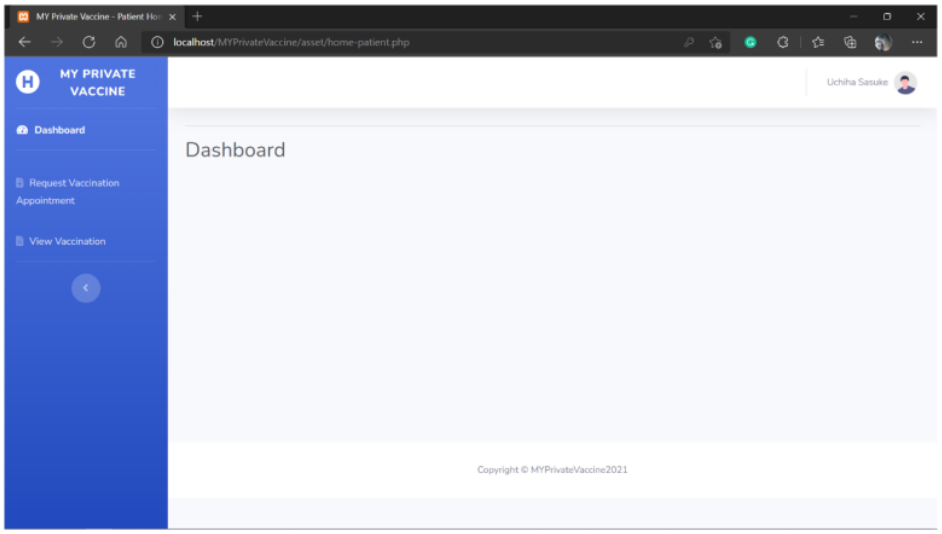
- Non-Functional Requirements

1) Compatibility

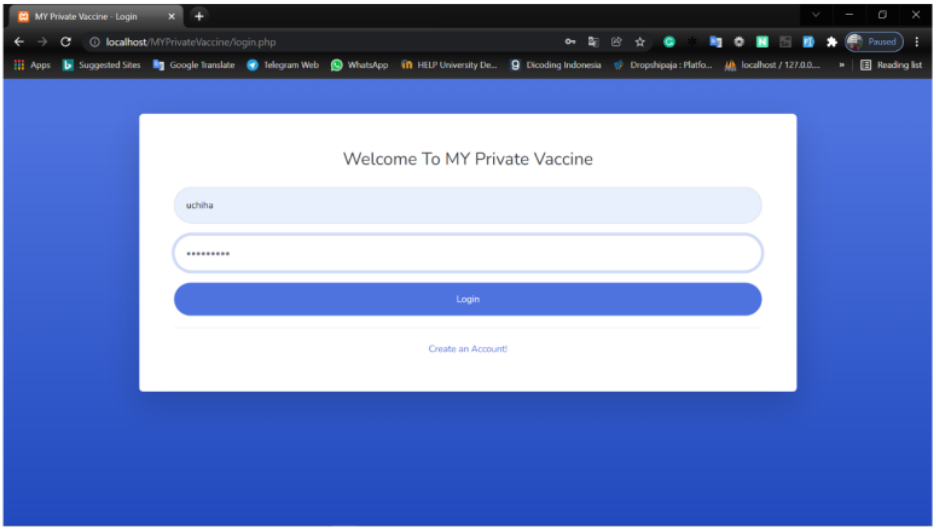
Accessible to most browser, here we choose Microsoft Edge and Google Chrome as an example

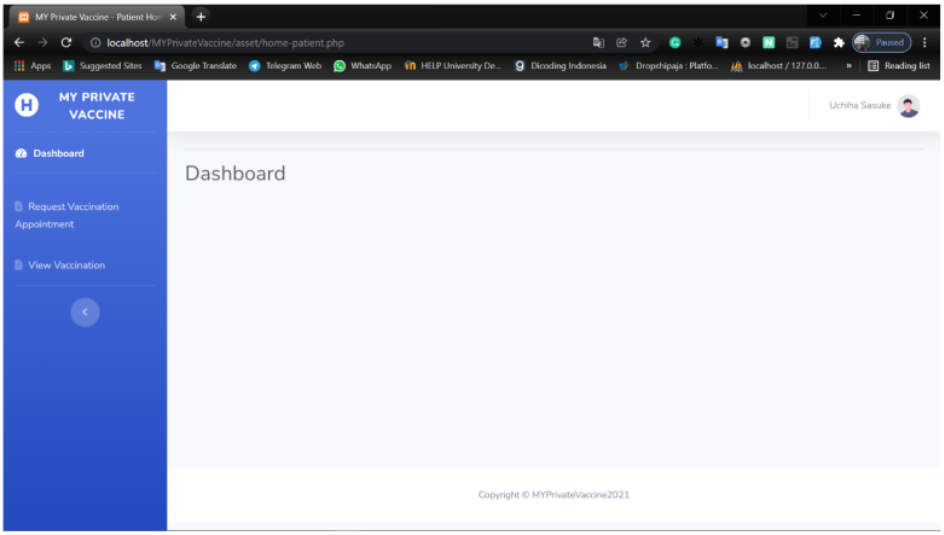
- Microsoft Edge



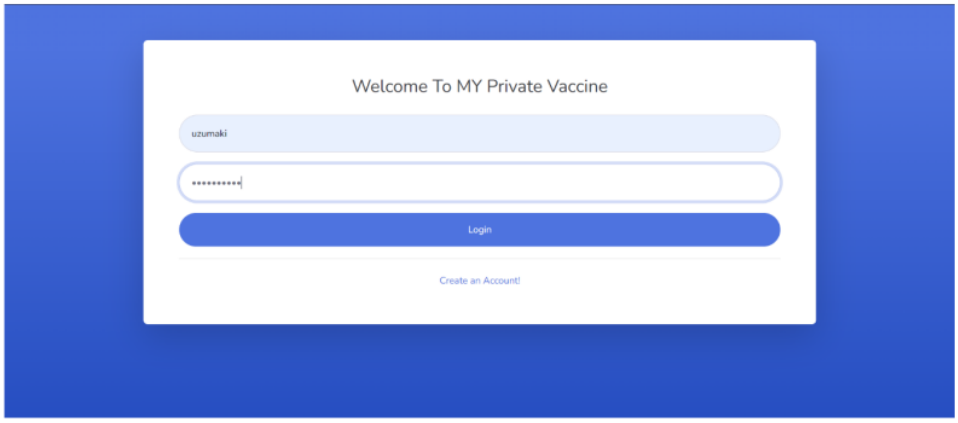


- Google Chrome


MY Private Vaccine - Login
localhost/MYPrivateVaccine/login.php
Welcome To MY Private Vaccine
uchiha
Login
Create an Account!


MY Private Vaccine - Patient Hom
localhost/MYPrivateVaccine/asset/home-patient.php
MY PRIVATE VACCINE
Dashboard
Request Vaccination Appointment
View Vaccination
Uchiha Sasuke
Dashboard
Copyright © MYPrivateVaccine2021

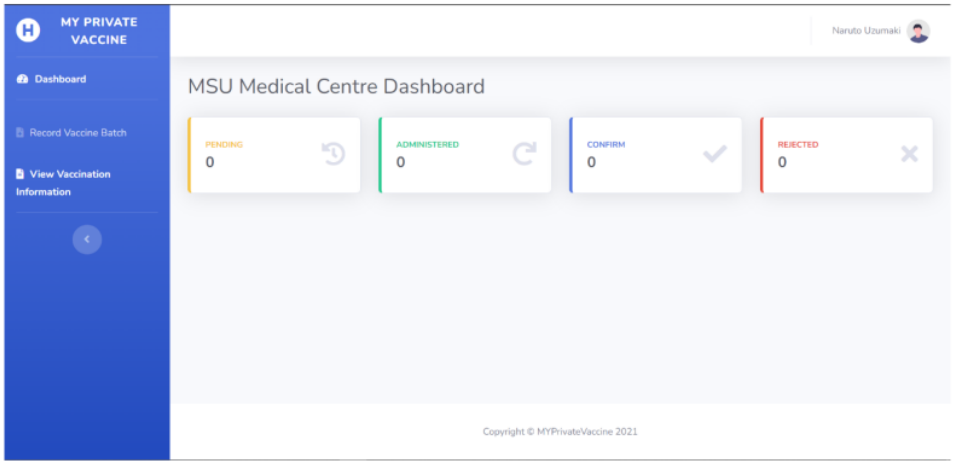
2) Security

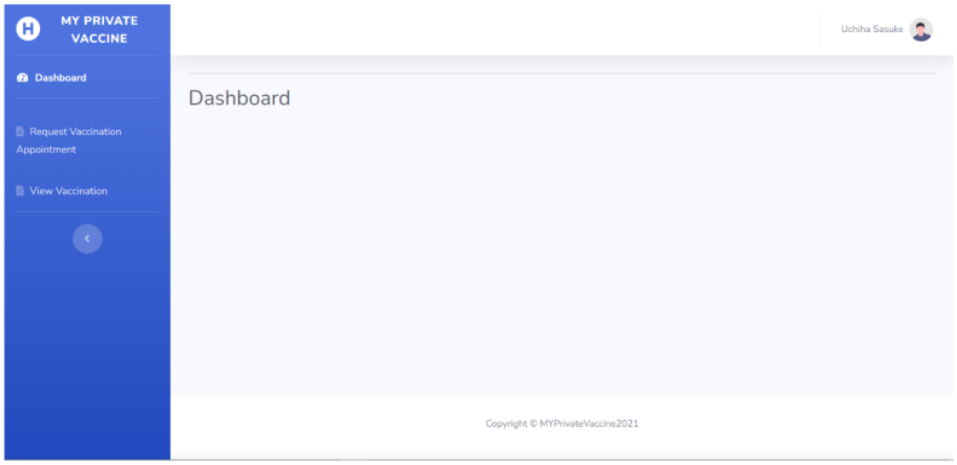


Test ID	R-03			
Use Case	Login			
Test Description	To allow user to login to the system and display their menu according to their role			
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	- Username: uchiha - Password: sasuke123	Password field changed to "•••"	Password field changed to "•••"	Pass

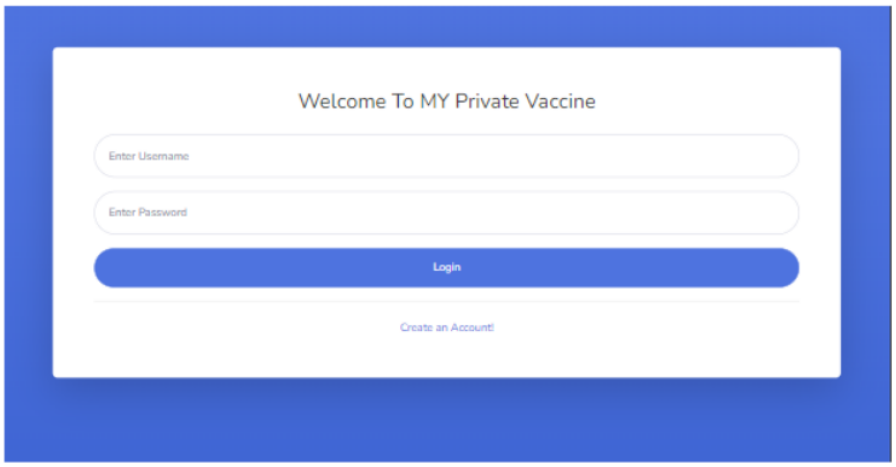
3) Usability

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

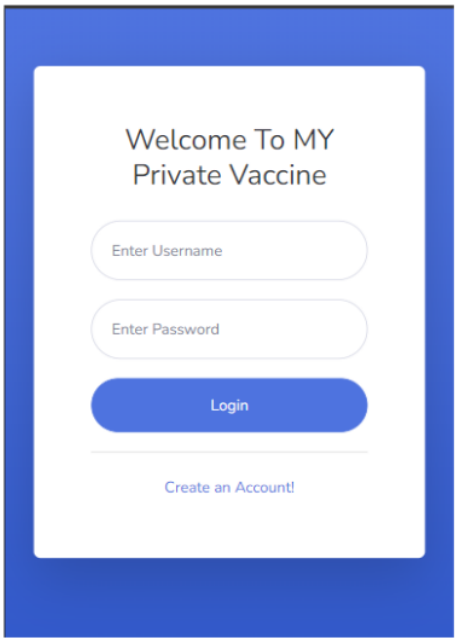

MY PRIVATE VACCINE
Dashboard
Record Vaccine Batch
View Vaccination Information
Naruto Uzumaki
MSU Medical Centre Dashboard
PENDING
0
ADMINISTERED
0
CONFIRM
0
REJECTED
0
Copyright © MYPrivateVaccine 2021


MY PRIVATE VACCINE
Dashboard
Request Vaccination Appointment
View Vaccination
Uchiha Sasuke
Dashboard
Copyright © MYPrivateVaccine2021

- Tablet


Welcome To MY Private Vaccine
Enter Username
Enter Password
Login
Create an Account!

- Mobile Phone



F. Test Analysis Report

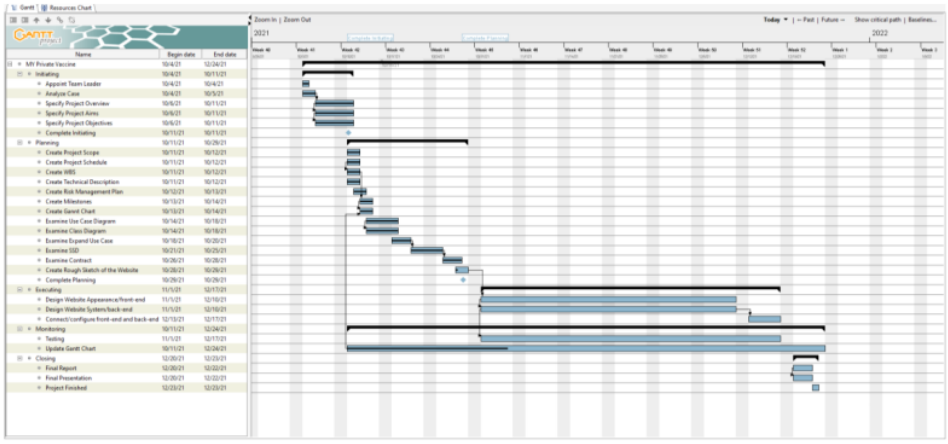
Unit testing, integration testing, both functional and non-functional system testing, were used to test the use cases in the second iteration of this project. The results of the various tests reveal that all of the use cases created in this iteration match the predetermined requirements. During testing,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

III. Review

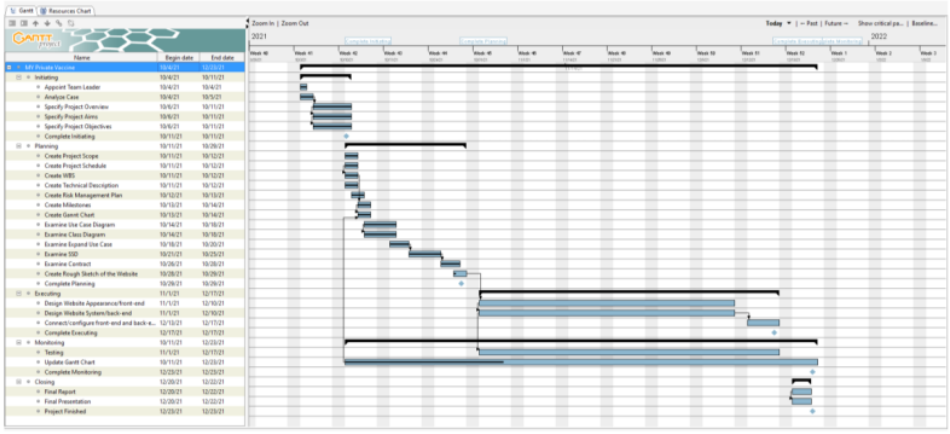
A. Gantt Chart Finale

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



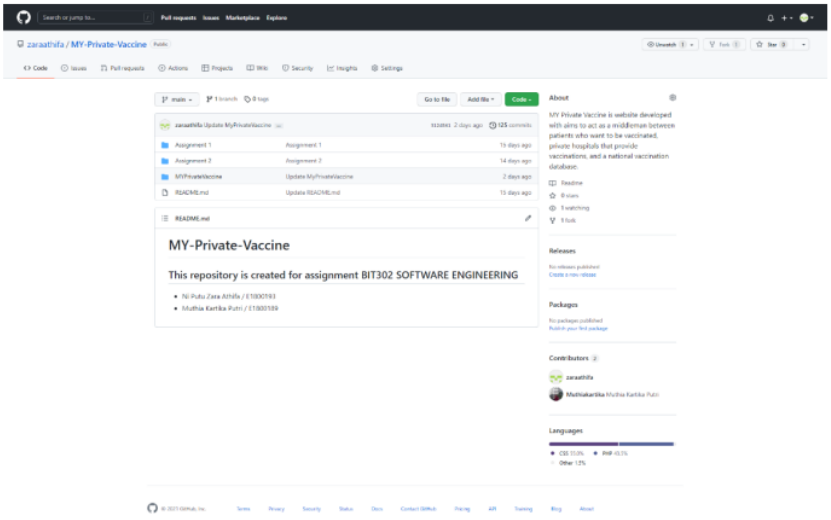
- After



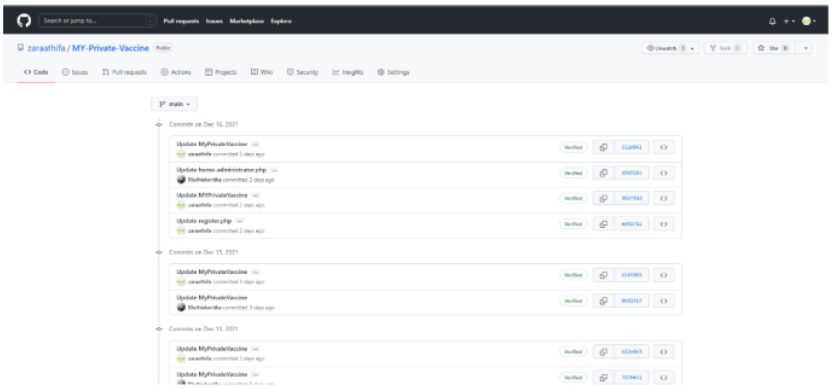
B. Git Hub

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

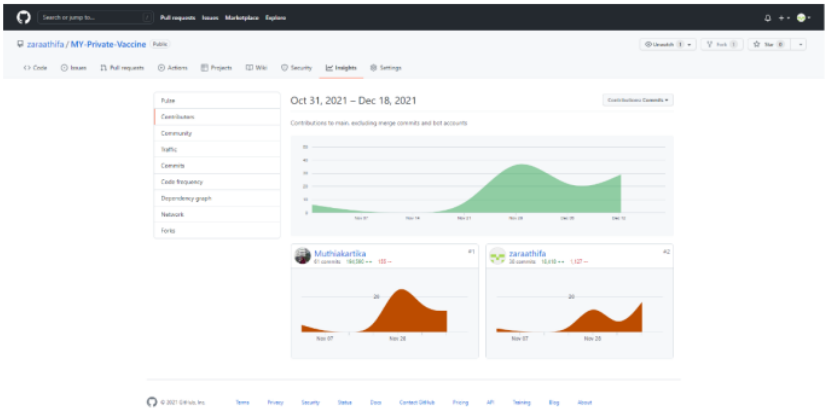
- Git Hub Main Page



- Git Hub Commit History



- Git Hub Contributor Insight



C. Review

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

1) **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.

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. References

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

E1800189 & E1800193 BIT302 Assignment 3

ORIGINALITY REPORT

23%	1%	0%	23%
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4	Submitted to Westcliff University Student Paper	<1%

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Exclude bibliography	Off		