

E1800193&E1800189 BIT302

Assignment 2 Submission

by NI PUTU ZARA ATHIFA WIJANA -

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Assignment Cover Sheet

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Module/Subject Information		Office Acknowledgement
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Feedback/Comments*	
Main Strengths	
Main Weaknesses	
Suggestions for improvement	

	Student acknowledge feedback/comments
Grader's signature	Student's signature: Zara Athifa Wijana
Date: December 3, 2021	Date: December 3, 2021

Note:

- 1) A soft and hard copy of the assignment shall be submitted.
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- 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 1

BIT302

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

Design Specification Document



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2021

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I. Introduction to Design Documentation

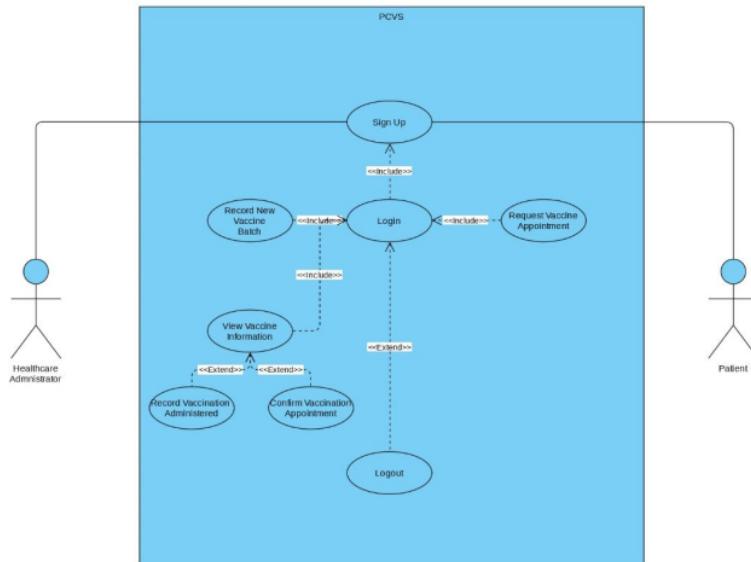
A. Introduction

The MY Private Vaccine website development project aims to act as a middleman between patients who want to be vaccinated, private hospitals that provide vaccinations, and a national vaccination database. We are also required to create design specification documents in addition to project proposals and requirements specification document. The purpose of this design specification document is to outline the critical points that must be met.

This document will contain:

- Introduction with a use case diagram and an explanation of whether or not we have made any updates to the requirements specification that we have previously made.
- Design specification that cover Architectural design specifications, which include Design Class Diagrams, ERDs, Site Maps, Generic User Experience/Wireframes, and System design from the MY Private Vaccine system, which will explain the requirements that have been determined and will include updates on System Sequence Diagrams and Contracts to be developed for Iteration 1, as well as Database design.
- Details about iteration 1 development and testing, including test objectives, results, how to test, integration tests with reports, and Gantt chart updates that we completed during the second phase of this project's development to ensure and guarantee that the project's results will meet various pre-determined requirements

B. Use Case Diagram



The use case diagram was not altered in any way. The use case diagram utilized in the previous requirement specification document is still the same. Our use case diagram still includes eight use cases: sign up, login, and logout for both user roles, record new vaccine batch, view vaccine information, record vaccination administered, and confirm vaccination appointment for healthcare administrators, and request vaccination appointment for patients. The use cases that we develop on this iteration are sign up, login, and logout.

C. Requirements Specification

The requirements specification was not changed in any way. The requirements specification used in the previous requirement specification document is still the same. We will show the project's requirement specification that were previously created.

- Functional Requirements

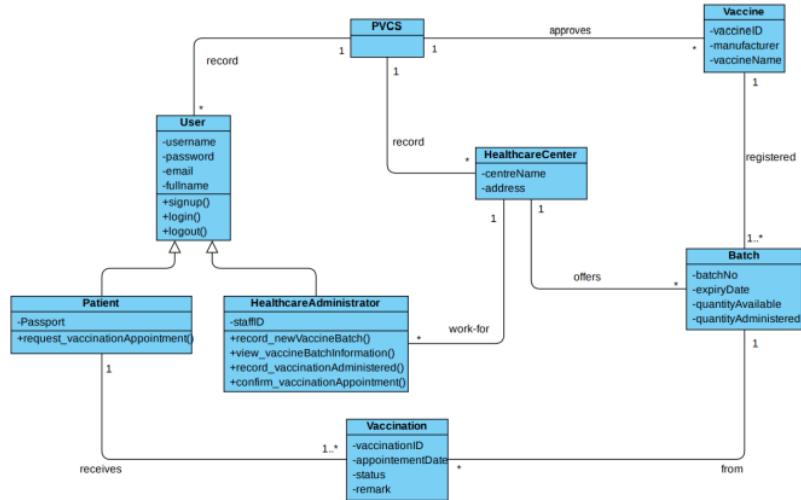
No.	Requirements	User
1.	A menu to sign up to the system 1	All
2.	A menu to login to the system	All
3.	Username/ID and password verification in login menu	All
4.	Healthcare Administrator dashboard will be displayed after successfully login to the system 1	Healthcare Administrator
5.	Record New Vaccine Batch menu to record new vaccine batch data from patient 1	Healthcare Administrator
6.	View Vaccine Batch Information menu to show the information about vaccine batch that has been recorded	Healthcare Administrator
7.	Record Vaccination Administered menu to record new data from patient who wants to do vaccinate	Healthcare Administrator
8.	Confirm Vaccination appointment menu to confirm patient vaccination appointment	Healthcare Administrator
9.	Patient dashboard will be displayed after successfully login to the system	Patient
10.	Request Vaccination appointment menu to make a new request for vaccination appointment.	Patient
11.	Log out button to exit/logout from the system	All

- Non-functional Requirements

No.	Requirements	Description
1.	Availability	This system will be available for the majority of the time, with an unplanned downtime of no more than 5 hours per case. This system is also easily accessible to all citizens with internet and mobile device access.
2.	Compatibility	This system must be functioning properly in a variety of browsers, or at least four of the most commonly used browsers, such as Chrome, Edge, Mozilla Firefox, and Safari.
3.	Performance	The system must be able to quickly return the results that the user has requested. MY Private Vaccine should respond to user actions such as login, opening a new page, filling out data, and so on as quickly as possible and should not make the user wait longer than 10 seconds to access one of the menus
4.	Reliability	This system will be used for an indefinite period of time, and it must be reliable during that time so that the chance of critical failures occurring during normal or heavy usage conditions remains below 10%.
5.	Security	This system will have to be guaranteed safe so that it can avoid data breaches that compromise user privacy, all user data kept within the system will be protected against malware and any type of unauthorized access.
6.	Usability	This system must be user-friendly, with simple navigation and design to avoid confusing users, including those who are unfamiliar with electronics.

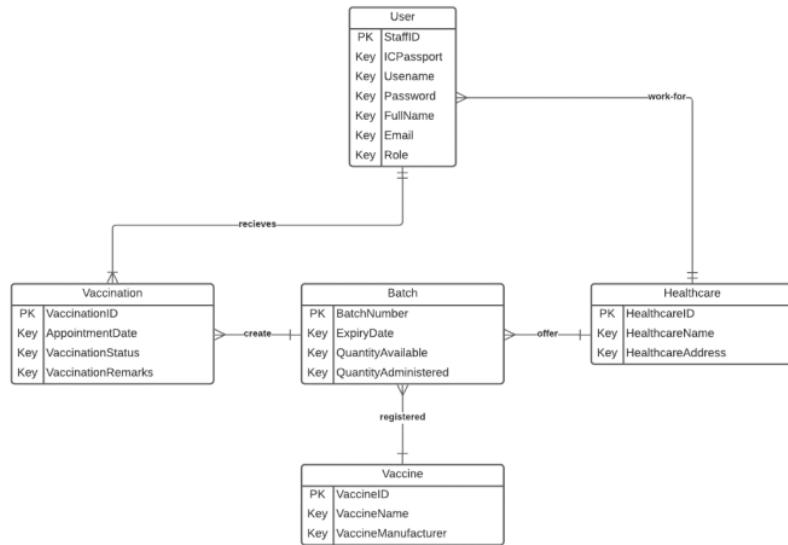
II. Design Specification

A. Class Diagram

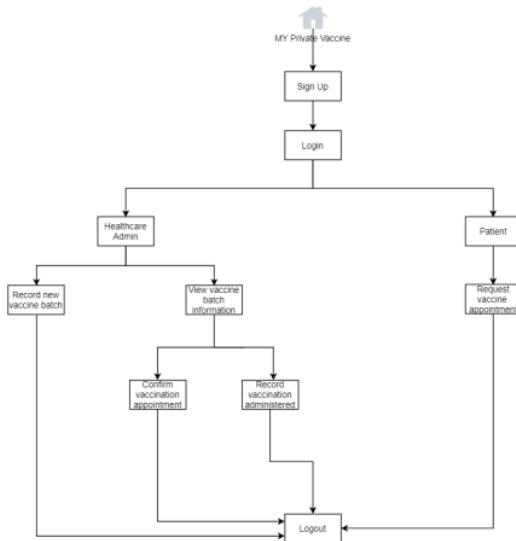


The class diagram was not altered in any way. The class diagram of use case developed for the first iteration utilized in the previous requirement specification document is still the same. The class diagram may or may not be affected by the remaining use cases developed in the project's second iteration. subsequent iteration documents will provide explanation if there any changes to the class diagram for the remaining use cases.

B. ERD



C. Site Map



D. Generic User Experience/Wireframe

The image displays three wireframes for a generic user experience, arranged vertically. Each wireframe is set against a dark blue background.

Create Account (Top Wireframe):

- Header: "create account"
- Form fields:
 - "choose role/option": dropdown menu with "V" icon
 - "username": input field
 - "password": input field
 - "email address": input field
 - "full name": input field
 - "choose role/option": dropdown menu with "V" icon
- Buttons:
 - A large blue "register" button at the bottom.
 - A small link "already have account? login" at the bottom right.

Create Account (Middle Wireframe):

- Header: "create account"
- Form fields:
 - "choose role/option": dropdown menu with "V" icon
 - "username": input field
 - "password": input field
 - "email address": input field
 - "full name": input field
 - "choose healthcare": dropdown menu with "V" icon
- Buttons:
 - A large blue "register" button at the bottom.
 - A small link "already have account? login" at the bottom right.

Login (Bottom Wireframe):

- Header: "welcome back!"
- Form fields:
 - "username": input field
 - "password": input field
- Buttons:
 - A large blue "login" button at the bottom.
 - A small link "forget password" at the bottom right.

The image displays three vertically stacked wireframe prototypes of a user interface for requesting a vaccination appointment. Each prototype features a dark blue sidebar on the left with a 'LOGO' at the top and a navigation menu below it, containing links for 'Dashboard' and 'Request vaccination appointment'. The main content area on the right includes a 'profile' icon in the top right corner.

- Prototype 1:** Shows a 'Dashboard' section with a single horizontal row for input fields. The row contains fields for 'batch no.', 'center name', 'center address', 'manufacturer', 'vaccine name', 'exp date', and 'quantity available'. A 'SEARCH' button is located to the right of the search bar.
- Prototype 2:** Shows a 'Request vaccination appointment' section. It includes a 'request form' with fields for 'center id' and 'appointment date (dd/mm/yyyy)'. Below these fields are two buttons: a blue one labeled 'cancel' and a green one labeled 'book'.
- Prototype 3:** Shows a 'Dashboard' section with four colored rectangular buttons labeled 'pending', 'administered', 'confirmed', and 'rejected'.



- [Dashboard](#)
- [Record new vaccine batch](#)
- [View vaccination information](#)

Record new vaccine batch
profile

record new batch

Batch no	Expiry date	Quantity available	Option

Record new vaccine batch
profile

search

vaccine ID	manufacturer	vaccine name

new batch form

vaccine id	▼
batch no	
expiry date (dd/mm/yyyy)	
city	
blue	green

View vaccination information
profile

search

batch number	vaccine name	manufacturer

choose batch

batch number	▼																																																
choose																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>batch no</th> <th>vaccination ID</th> <th>appointment date</th> <th>patient name</th> <th>center name</th> <th>vaccine name</th> <th>pending</th> <th>exp.date</th> <th>qty available</th> <th>qty administered</th> <th>status</th> <th>option</th> </tr> </thead> <tbody> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </tbody> </table>		batch no	vaccination ID	appointment date	patient name	center name	vaccine name	pending	exp.date	qty available	qty administered	status	option																																				
batch no	vaccination ID	appointment date	patient name	center name	vaccine name	pending	exp.date	qty available	qty administered	status	option																																						

9

LOGO

- Dashboard
- Record new vaccine batch
- View vaccination information

View vaccination information - confirm/reject

batch no	patient name	ICPassport	expiry date	manufacturer	vaccine name
----------	--------------	------------	-------------	--------------	--------------

enter remarks

REMARKS

blue green red

profile

LOGO

- Dashboard
- Record new vaccine batch
- View vaccination information

View vaccination information - reject

batch no	patient name	ICPassport	expiry date	manufacturer	vaccine name
----------	--------------	------------	-------------	--------------	--------------

enter remarks

remarks

blue green red

profile

LOGO

- Dashboard
- Record new vaccine batch
- View vaccination information

Are you sure?

Record new vaccine batch

Batch no	Expiry date	Quantity available	Option
----------	-------------	--------------------	--------

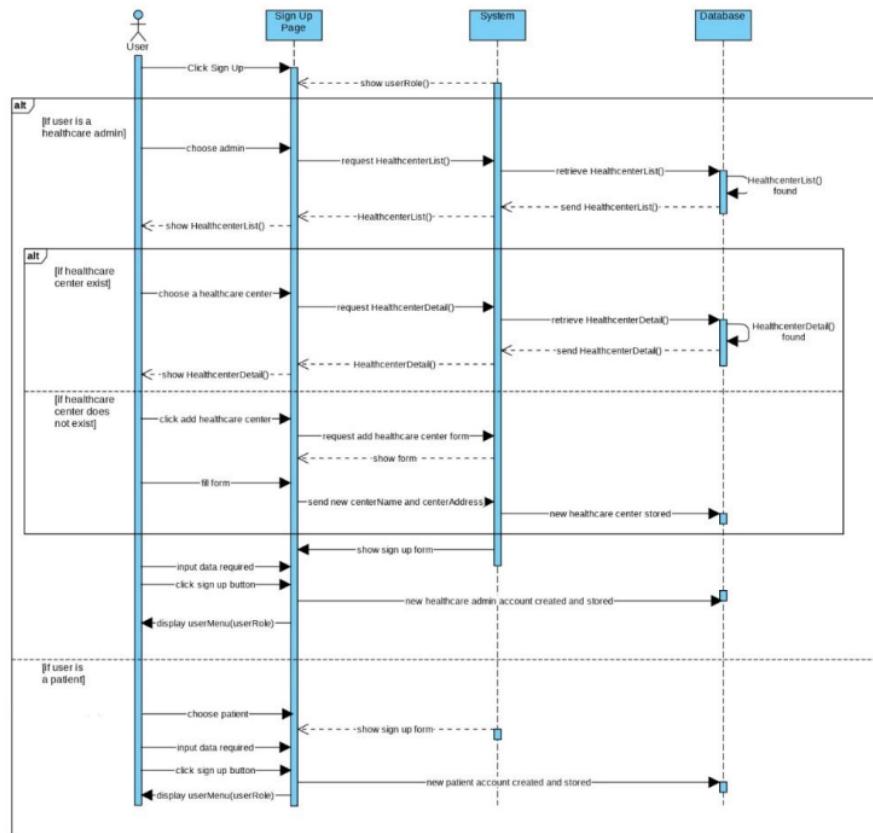
logout

profile

E. System design of the system

1. Sign Up

- SSD



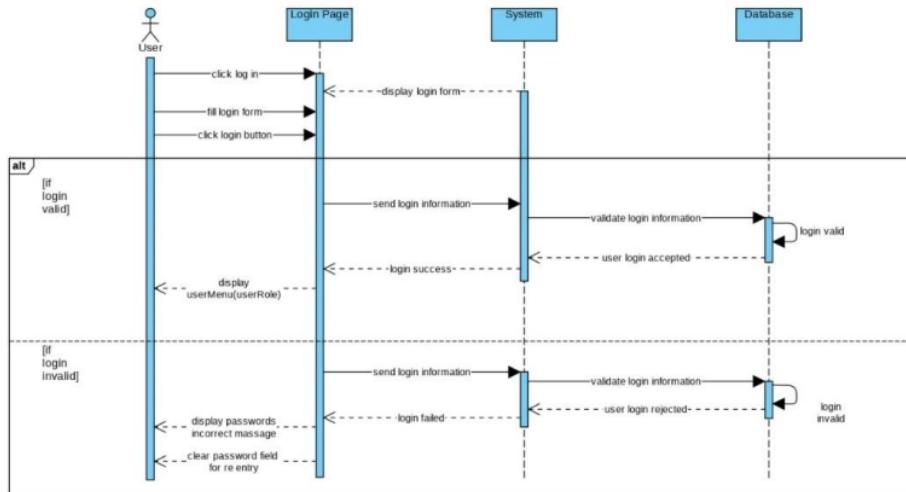
- Contracts

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

Post-conditions	<ul style="list-style-type: none"> - Patient account created - Directed to patient menu page
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 with valid staffID <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 - Directed to healthcare administrator menu page

2. Login

- SSD

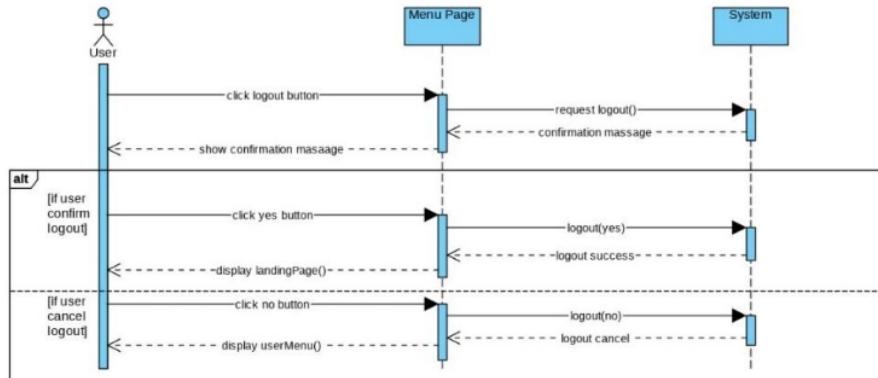


- Contracts

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 <ul style="list-style-type: none"> - Directed to healthcare administrator/patient menu page - Login session started Else <ul style="list-style-type: none"> - Clear password field for re-entry - Login session pending

3. Logout

- SSD



- Contracts

Cross References	Logout
Operation	Logout() 1
Responsible	allow the user to logout from the system
Pre-conditions	<ul style="list-style-type: none"> - Session started - Click logout button
Post-conditions	If logout(yes) <ul style="list-style-type: none"> - Click yes on the confirmation message - Login session ended Else <ul style="list-style-type: none"> - Click no on the confirmation message - Back to user menu

F. Database Design

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	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 centre ID	1
centreName	Varchar	30	Centre name of healthcare centre	MSU Medical Centre
address	Varchar	30	Address of healthcare centre	Kuala Lumpur

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

III. Iteration 1

A. Identification

As mentioned above, we develop the sign up, login, and logout use cases. All the use cases developed for this first iteration of the project is developed by Ni Putu Zara Athifa Wijana. For the remaining use cases will be developed on the second iteration.

Table below created to display iteration details

- 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

B. Test Objectives

The testing procedure is carried out to ensure that the use cases developed in the first iteration of the project perform as expected. The following are all of the requirements' objectives for the three use cases that have been developed:

- Register both the patient and the healthcare provider.
- Users can logout of the system
- Directs users to their role menu page based on the username and password entered.
- System can be utilized on a variety of devices
- The user interface operates in accordance with its functions.

C. Test Plan

Testing type	Strategy	Tools	Schedule
Unit: 1. Sign Up 2. Login 3. Logout	Black box	Selenium	according to the gantt chart's schedule (11/30/2021 – 12/01/2020)

Integration	Black box	Selenium	according to the gantt chart's schedule (12/01/2021 – 12/01/2020)
Functional	Black box	Selenium	according to the gantt chart's schedule (12/01/2021 – 12/01/2020)
Non-functional	Black box	Google Chrome	according to the gantt chart's schedule (12/02/2021 – 12/02/2020)

D. Test Results

1. Unit Testing

- Sign Up (Patient)

Test ID	R-01 1			
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 - ICPasport: JPY5671234 	<p>Success message displayed, direct user to login menu, data enter will be stored in the database.</p>	<p>Success message displayed, direct user to login menu, data enter will be stored in the database.</p>	pass
Test case 2:	<ul style="list-style-type: none"> - Username: - Password: - Email: - Full Name: - ICPasport: 	<p>Warning message displayed, stay on the sign up page</p>	<p>Warning message displayed, stay on the sign up page</p>	pass
Test case 3:	<ul style="list-style-type: none"> - Username: uchiha - Password: itachi123 - Email: itachiuchiha@gmail.com - Full Name: Itachi Uchiha - ICPasport: JPY2648576 	<p>Warning message indicate username used shown</p>	<p>Warning message indicate username used shown</p>	pass

- Sign Up (Healthcare Administrator)

1	
Test ID	R-02
Use Case	Sign Up (healthcare administrator)
Test Description	To allow user(healthcare administrator) 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: 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

- Login

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			
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)
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

- Logout

Test ID	R-04
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 1 displayed	Confirmation message 1 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. Integration Testing

We use Selenium IDE in the Chrome Browser to run the integration testing of use cases develop on the first iteration. The test results were saved as a Java file (.java).

- 1 Sign Up (Patient)

```

1  # Generated by Selenium IDE
2  import pytest
3  import time
4  import json
5  from selenium import webdriver
6  from selenium.webdriver.common.action_chains import ActionChains
7  from selenium.webdriver.common.support import expected_conditions
8  from selenium.webdriver.common.support.wait import WebDriverWait
9  from selenium.webdriver.common.keys import Keys
10 from selenium.webdriver.common.desired_capabilities import DesiredCapabilities
11
12 class TestRegispatient():
13     def setup_method(self, method):
14         self.driver = webdriver.Chrome()
15         self.vars = {}
16
17     def teardown_method(self, method):
18         self.driver.quit()
19
20     def test_Regispatient(self):
21         self.driver.get("http://localhost/MYPrivateVaccine/register.php")
22         self.driver.set_window_size(1296, 736)
23         self.driver.find_element(By.NAME, "role").click()
24         dropdown = self.driver.find_element(By.NAME, "role")
25         dropdown.find_element(By.XPATH, "//option[.= 'Patient']").click()
26         self.driver.find_element(By.ID, "exampleFirstName").click()
27         self.driver.find_element(By.ID, "exampleFirstName").send_keys("uchiha")
28         self.driver.find_element(By.ID, "exampleInputPassword").click()
29         self.driver.find_element(By.ID, "exampleInputPassword").send_keys("uchiha123")
30         self.driver.find_element(By.ID, "exampleInputEmail").click()
31         self.driver.find_element(By.ID, "exampleInputEmail").send_keys("uchihasasuke@gmail.com")
32         self.driver.find_element(By.NAME, "fullname").click()
33         self.driver.find_element(By.NAME, "fullname").send_keys("Uchiha Sasuke")
34         self.driver.find_element(By.ID, "ICPassport").click()
35         self.driver.find_element(By.ID, "ICPassport").send_keys("JPY5671234")
36         self.driver.find_element(By.NAME, "submit").click()
37
38
39

```

Running 'regis-patient'

1. open on http://localhost/MYPrivateVaccine/register.php **OK**
2. setWindowSize on 1296x736 **OK**
3. click on name=role **OK**
4. select on name=role with value label=Patient **OK**
5. click on id=exampleFirstName **OK**
6. type on id=exampleFirstName with value uchiha **OK**
7. click on id=exampleInputPassword **OK**
8. type on id=exampleInputPassword with value uchiha123 **OK**
9. click on id=exampleInputEmail **OK**
10. type on id=exampleInputEmail with value uchihasasuke@gmail.com **OK**
11. click on name=fullname **OK**
12. type on name=fullname with value Uchiha Sasuke **OK**
13. click on id=ICPassport **OK**
14. type on id=ICPassport with value JPY5671234 **OK**
15. click on name=submit **OK**

'regis-patient' completed successfully

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: - 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

- Sign Up (Healthcare Administrator)

```

1  # Generated by Selenium IDE
2  import pytest
3  import time
4  import json
5  from selenium import webdriver
6  from selenium.webdriver.common.by import By
7  from selenium.webdriver.common.action_chains import ActionChains
8  from selenium.webdriver.support import expected_conditions
9  from selenium.webdriver.common.keys import Keys
10 from selenium.webdriver.common.desired_capabilities import DesiredCapabilities
11
12
13 class TestRegisAdmin():
14     def setup_method(self, method):
15         self.driver = webdriver.Chrome()
16         self.vars = {}
17
18     def teardown_method(self, method):
19         self.driver.quit()
20
21     def test_regisAdmin(self):
22         self.driver.get("http://localhost/MYPrivateVaccine/register.php")
23         self.driver.set_window_size(1296, 736)
24         self.driver.find_element(By.NAME, "role").click()
25         dropdown = self.driver.find_element(By.NAME, "role")
26         dropdown.find_element(By.XPATH, '//option[.= "Administrator"]').click()
27         self.driver.find_element(By.ID, "exampleFirstName").click()
28         self.driver.find_element(By.ID, "exampleFirstName").send_keys("uzumaki")
29         self.driver.find_element(By.ID, "exampleInputPassword").click()
30         self.driver.find_element(By.ID, "exampleInputPassword").send_keys("uzumaki123")
31         self.driver.find_element(By.ID, "exampleInputEmail").click()
32         self.driver.find_element(By.ID, "exampleInputEmail").send_keys("uzumakinaruto@gmail.com")
33         self.driver.find_element(By.NAME, "fullname").click()
34         self.driver.find_element(By.NAME, "fullname").send_keys("Naruto Uzumaki")
35         self.driver.find_element(By.NAME, "centreName").click()
36         dropdown = self.driver.find_element(By.NAME, "centreName")
37         dropdown.find_element(By.XPATH, '//option[.= "MSU Medical Centre(Selangor)"]').click()
38         self.driver.find_element(By.NAME, "submit").click()
39
40

```

Running 'regis-admin'

1. open on http://localhost/MYPrivateVaccine/register.php **OK**
2. setWindowSize on 1296x736 **OK**
3. click on name=role **OK**
4. select on name=role with value label=Administrator **OK**
5. click on id=exampleFirstName **OK**
6. type on id=exampleFirstName with value uzumaki **OK**
7. click on idexampleInputPassword **OK**
8. type on idexampleInputPassword with value uzumaki123 **OK**
9. click on idexampleInputEmail **OK**
10. type on idexampleInputEmail with value uzumakinaruto@gmail.com **OK**
11. click on name=fullname **OK**
12. type on name=fullname with value Naruto Uzumaki **OK**
13. click on name=centreName **OK**
14. select on name=centreName with value label=MSU Medical Centre[Selangor] **OK**
15. click on name=submit **OK**

'regis-admin' completed successfully

1	
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: - 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

- Login

```

1 # Generated by Selenium IDE
2 import pytest
3 import time
4 import json
5 from selenium import webdriver
6 from selenium.webdriver.common.action_chains import ActionChains
7 from selenium.webdriver.support import expected_conditions
8 from selenium.webdriver.support.wait import WebDriverWait
9 from selenium.webdriver.common.keys import Keys
10 #from selenium.webdriver.common.desired_capabilities import DesiredCapabilities
11
12
13 > class TestLoginAdmin():
14     def setup_method(self, method):
15         self.driver = webdriver.Chrome()
16         self.vars = {}
17
18     def teardown_method(self, method):
19         self.driver.quit()
20
21     def test_loginadmin(self):
22         # Step #1 | name | target | value
23         # 1 | click | name=username |
24         # 2 | type | name=username | uzumaki
25         self.driver.find_element(By.NAME, "username").click()
26         self.driver.find_element(By.NAME, "username").send_keys("uzunaki")
27
28         # 3 | click | name=password |
29         self.driver.find_element(By.NAME, "password").click()
30         # 4 | type | name=password | uzumaki123
31         self.driver.find_element(By.NAME, "password").send_keys("uzumaki123")
32
33         # 5 | click | css:btn |
34         self.driver.find_element(By.CSS_SELECTOR, ".btn").click()
35
36         # 6 | open | http://localhost/MYPrivateVaccine/login.php |
37         self.driver.get("http://localhost/MYPrivateVaccine/login.php")
38
39         # 7 | setWindowSize | 1296x736 |
40         self.driver.set_window_size(1296, 736)
41
42         # 8 | click | name=username |
43         self.driver.find_element(By.NAME, "username").click()
44         # 9 | type | name=username | uzumaki
45         self.driver.find_element(By.NAME, "username").send_keys("uzumaki")
46
47         # 10 | click | name=password |
48         self.driver.find_element(By.NAME, "password").click()
49         # 11 | type | name=password | uzumaki123
50         self.driver.find_element(By.NAME, "password").send_keys("uzumaki123")
51
52         # 12 | click | css:btn |
53         self.driver.find_element(By.CSS_SELECTOR, ".btn").click()
54
55

```

```

1 # Generated by Selenium IDE
2 import pytest
3 import time
4 import json
5 from selenium import webdriver
6 from selenium.webdriver.common.by import By
7 from selenium.webdriver.common.action_chains import ActionChains
8 from selenium.webdriver.support import expected_conditions
9 from selenium.webdriver.support.wait import WebDriverWait
10 from selenium.webdriver.common.keys import Keys
11 #from selenium.webdriver.common.desired_capabilities import DesiredCapabilities
12
13 > class TestLoginPatient():
14     def setup_method(self, method):
15         self.driver = webdriver.Chrome()
16         self.vars = {}
17
18     def teardown_method(self, method):
19         self.driver.quit()
20
21     def test_loginpatient(self):
22         self.driver.close()
23         self.driver.get("http://localhost/MYPrivateVaccine/login.php")
24         self.driver.set_window_size(1296, 736)
25         self.driver.find_element(By.NAME, "username").click()
26         self.driver.find_element(By.NAME, "username").send_keys("uchiha")
27         self.driver.find_element(By.NAME, "password").click()
28         self.driver.find_element(By.NAME, "password").send_keys("uchiha123")
29
30         self.driver.find_element(By.CSS_SELECTOR, ".btn").click()
31
32

```

Running 'Login-patient'

1. open on http://localhost/MYPrivateVaccine/login.php **OK**
2. setWindowSize on 1296x736 **OK**
3. click on name=username **OK**
4. type on name=username with value uchiha **OK**
5. click on name=password **OK**
6. type on name=password with value uchiha123 **OK**
7. click on css=.btn **OK**

'Login-patient' completed successfully

Running 'Login-admin'

1. open on http://localhost/MYPrivateVaccine/login.php **OK**
2. setWindowSize on 1296x736 **OK**
3. click on name=username **OK**
4. type on name=username with value uzumaki **OK**
5. click on name=password **OK**
6. type on name=password with value uzumaki123 **OK**
7. click on css=.btn **OK**

'Login-admin' completed successfully

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	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:	- Username: uzumaki	Display error notification, stay on login	Display error notification, stay on login	Pass

	- Password: naruto	page, both field emptied	page, both field emptied	
--	-----------------------	-----------------------------	-----------------------------	--

1 | generated by selenium IDE

```

1 | import pytest
2 | import time
3 | import json
4 |
5 | from selenium import webdriver
6 | from selenium.webdriver.common.by import By
7 | from selenium.webdriver.common.action_chains import ActionChains
8 | from selenium.webdriver.support import expected_conditions
9 | from selenium.webdriver.support.wait import WebDriverWait
10 | from selenium.webdriver.common.keys import Keys
11 | from selenium.webdriver.common.desired_capabilities import DesiredCapabilities
12 |
13 |> class TestLogout():
14 |>     def setup_method(self, method):
15 |>         self.driver = webdriver.Chrome()
16 |>         self.vars = {}
17 |
18 |>     def teardown_method(self, method):
19 |>         self.driver.quit()
20 |
21 |>     def test_logout(self):
22 |>         self.driver.get("http://localhost/MYPrivateVaccine/login.php")
23 |>         self.driver.set_window_size(1296, 736)
24 |>         self.driver.find_element(By.NAME, "username").click()
25 |>         self.driver.find_element(By.NAME, "username").send_keys("uchiha")
26 |>         self.driver.find_element(By.NAME, "password").click()
27 |>         self.driver.find_element(By.NAME, "password").send_keys("uchiha123")
28 |>         self.driver.find_element(By.NAME, "password").send_keys(Keys.ENTER)
29 |>         self.driver.find_element(By.CSS_SELECTOR, ".img-profile").click()
30 |>         self.driver.find_element(By.LINK_TEXT, "Logout").click()
31 |>         self.driver.find_element(By.LINK_TEXT, "Logout").click()
32 |

```

Running 'Logout'

1. open on http://localhost/MYPrivateVaccine/login.php **OK**
2. setWindowSize on 1296x736 **OK**
3. click on name=username **OK**
4. type on name=username with value uchiha **OK**
5. click on name=password **OK**
6. type on name=password with value uchiha123 **OK**
7. sendKeys on name=password with value \${KEY_ENTER} **OK**
8. click on css=.img-profile **OK**
9. Trying to find linkText=Logout... **OK**
10. click on linkText=Logout **OK**

'Logout' completed successfully

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 1 displayed	Confirmation message 1 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

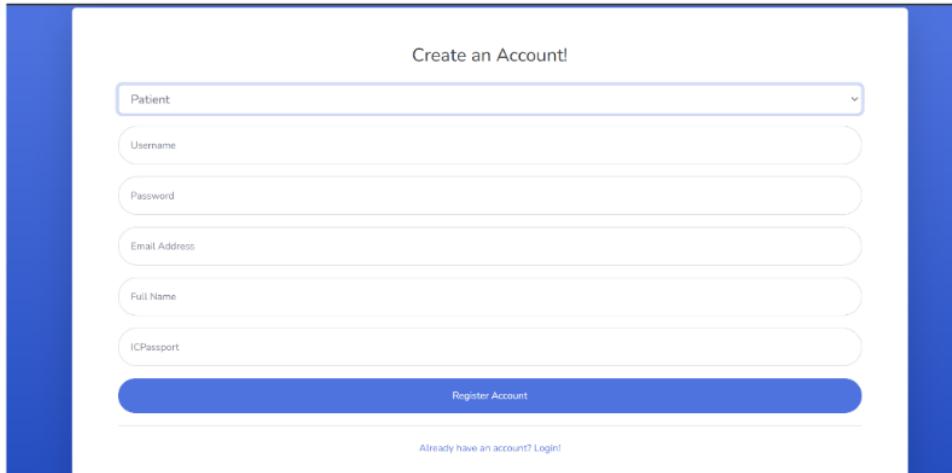
3. System Testing
 - Functional Requirements
 - a. Sign Up (Patient)
 - 1) Below is the display for sign up, then user proceed to choose their role

The screenshot shows a 'Create an Account!' form with five input fields: Position, Username, Password, Email Address, and Full Name. All fields are empty. Below the fields is a blue 'Register Account' button. At the bottom of the form, there is a link 'Already have an account? Login!'

- 2) When patient input no data but click the register button

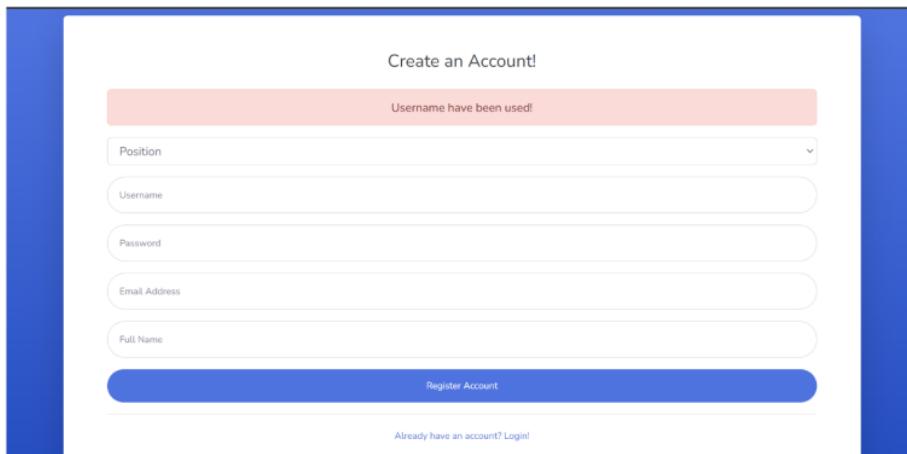
The screenshot shows the same 'Create an Account!' form as above, but with the 'Username' field highlighted in light blue. A validation message 'Please fill out this field.' with an exclamation mark icon appears above the field. The other fields are still empty. The 'Register Account' button is visible at the bottom.

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



The screenshot shows a 'Create an Account!' form. At the top, there is a dropdown menu set to 'Patient'. Below it are five input fields: 'Username', 'Password', 'Email Address', 'Full Name', and 'ICPassport'. A large blue 'Register Account' button is at the bottom. A small link 'Already have an account? Login!' is at the very bottom.

4) When a patient used an exist username



The screenshot shows the same 'Create an Account!' form as above, but with a red error message 'Username have been used!' displayed above the 'Username' field. The rest of the form and its components are identical to the first screenshot.

- 5) When patient input correct data required and click the register button, then login menu displayed.

Create an Account!

Patient
uchiha

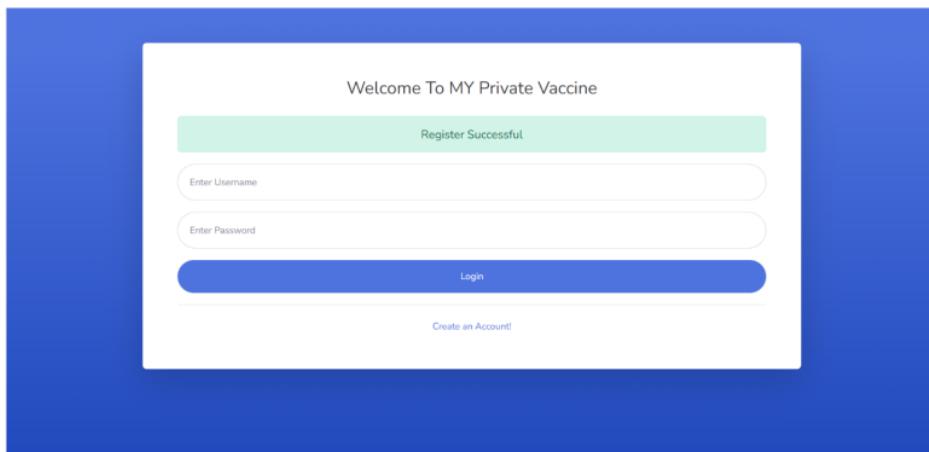
uchihasasuke@gmail.com

Uchiha Sasuke

JPY5671234

Register Account

Already have an account? [Login!](#)



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 	Success message displayed,	Success message displayed,	pass

	<ul style="list-style-type: none"> - Email: uchihasasuke@gmail.com - Full Name: Uchiha Sasuke - ICPasport: JPY5671234 	<p>direct user to login menu, data enter will be stored in the database.</p> <p><small>6</small></p>	<p>direct user to login menu, data enter will be stored in the database.</p>	
Test case 2:	<ul style="list-style-type: none"> - Username: - Password: - Email: - Full Name: - ICPasport: 	<p>Warning message displayed, stay on the sign up page</p>	<p>Warning message displayed, stay on the sign up page</p>	pass
Test case 3:	<ul style="list-style-type: none"> - Username: uchiha - Password: itachi123 - Email: itachiuchiha@gmail.com - Full Name: Itachi Uchiha - ICPasport: JPY2648576 	<p>Warning message indicate username used shown</p>	<p>Warning message indicate username used shown</p>	pass

b. Sign Up (Healthcare Administrator)

- 1) Below is the display for sign up, then user proceed to choose their role

Create an Account!

Position

Username

Password

Email Address

Full Name

Register Account

Already have an account? [Login!](#)

- 2) When healthcare administrator input no data but click the register button

The screenshot shows a 'Create an Account!' form with the following fields:

- Position: A dropdown menu.
- Username: An input field with a red border, indicating it is required.
- Password: An input field.
- Email Address: An input field.
- Full Name: An input field.

A validation message 'Please fill out this field.' is displayed next to the Username field. At the bottom, there is a blue 'Register Account' button and a link 'Already have an account? Login!'

- 3) 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 'Create an Account!' form with the following fields:

- Role Selection: A dropdown menu currently set to 'Administrator'.
- Username: An input field.
- Password: An input field.
- Email Address: An input field.
- Full Name: An input field.
- Centre Name: A dropdown menu with the placeholder '--- Centre Name ---'.

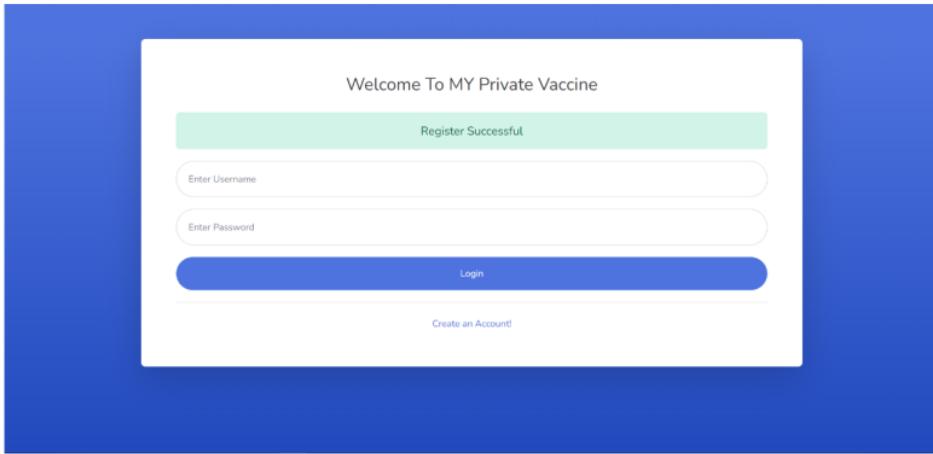
At the bottom, there is a blue 'Register Account' button and a link 'Already have an account? Login!'

4) When a healthcare admin used an exist username

The screenshot shows a registration form titled "Create an Account!". A red error message box at the top states "Username have been used!". Below it are five input fields: "Position" (dropdown menu), "Username" (text input), "Password" (text input), "Email Address" (text input), and "Full Name" (text input). At the bottom is a large blue "Register Account" button.

5) When healthcare admin input correct data required and click the register button, then login menu displayed.

The screenshot shows the same registration form with correct data entered. The "Position" field is set to "Administrator". The "Username" field contains "uzumaki". The "Password" field contains "*****". The "Email Address" field contains "uzumakinaruto@gmail.com". The "Full Name" field contains "Naruto Uzumaki". The "Register Account" button is visible at the bottom.

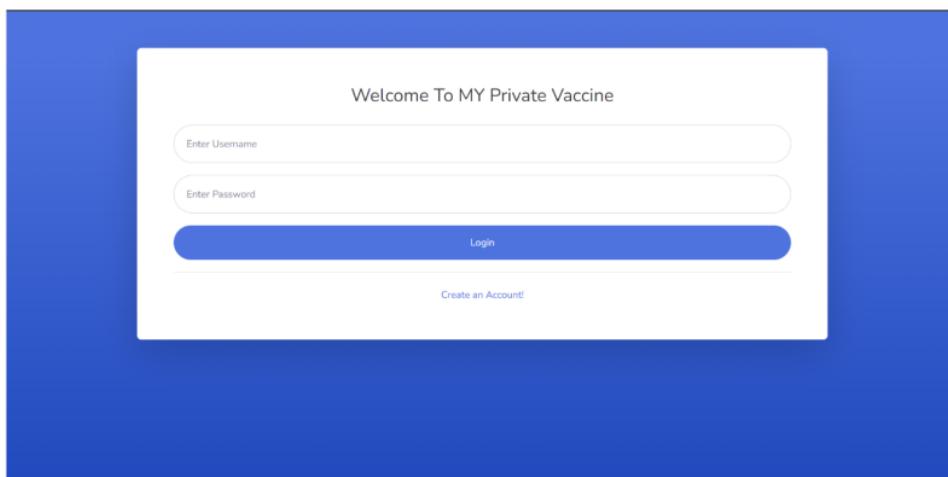


1	Test ID	R-02			
1	Use Case	Sign Up (healthcare administrator)			
1	Test Description	To allow user(healthcare administrator) to register to the system			
	Test Data	Expected output	Actual output	Remark(s)	
Test case 1:	<ul style="list-style-type: none"> - Username: uzumaki - Password: naruto123 - Email: 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
--------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------	----------------------------------------------	------

c. Login

- 1) This is the login page



2) This is when user input no data but click login

Welcome To MY Private Vaccine

Enter Username

Enter Password ! Please fill out this field.

Login

Create an Account!

This screenshot shows a login interface for 'MY Private Vaccine'. It features two input fields: 'Enter Username' and 'Enter Password'. The 'Enter Password' field has a red border and a warning message 'Please fill out this field.' with an exclamation mark icon above it. A large blue 'Login' button is centered below the fields. At the bottom, there is a link 'Create an Account!'.

3) When user enter unmatched username and password

Welcome To MY Private Vaccine

Username or Password is Wrong!

Enter Username

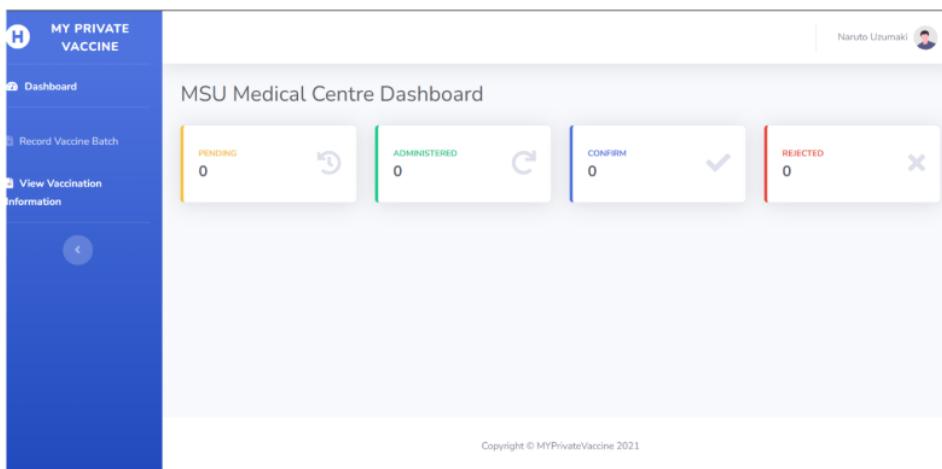
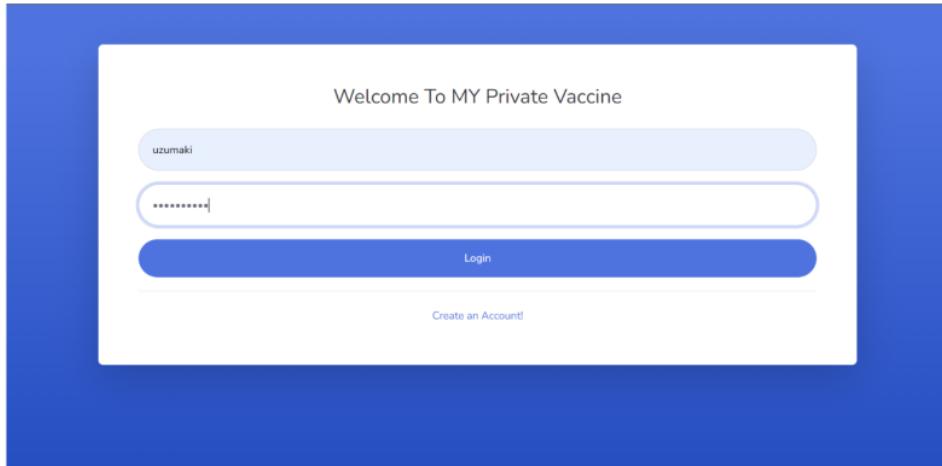
Enter Password

Login

Create an Account!

This screenshot shows a login interface for 'MY Private Vaccine'. It features two input fields: 'Enter Username' and 'Enter Password'. Both fields have a red border and a red message 'Username or Password is Wrong!' above them. A large blue 'Login' button is centered below the fields. At the bottom, there is a link 'Create an Account!'.

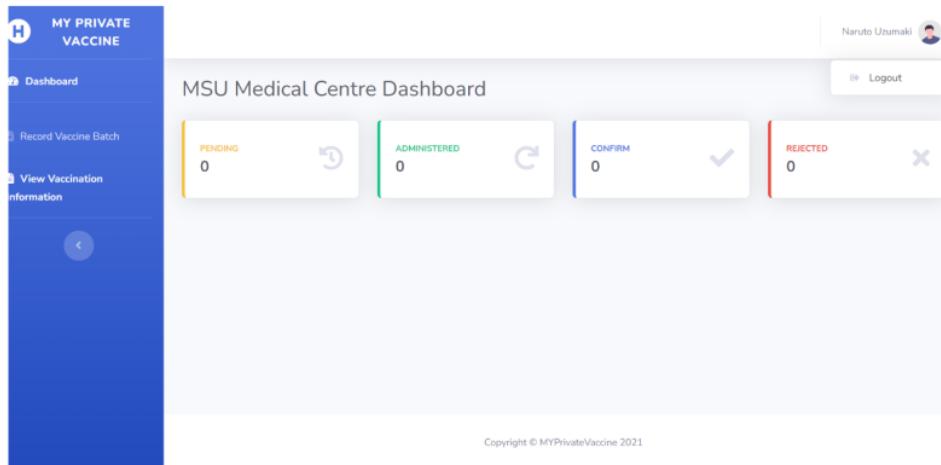
- 4) When patient enter match password and username, display menu based on their role



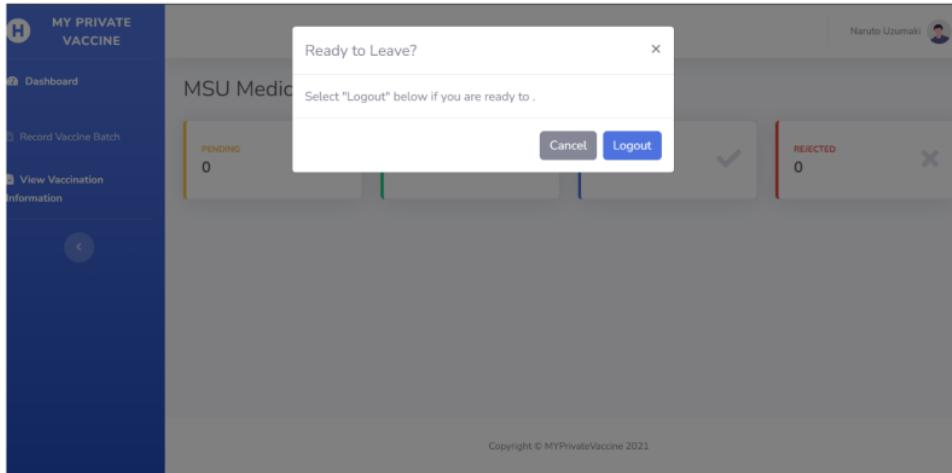
Test ID	R-03			
Use Case	Login			
Test Description	To allow user to login to the system and display their menu according to their role			
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	- Username: uchiha	Direct to patient home page	Direct to patient home page	Pass

	<ul style="list-style-type: none"> - Password: sasuke123 			
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

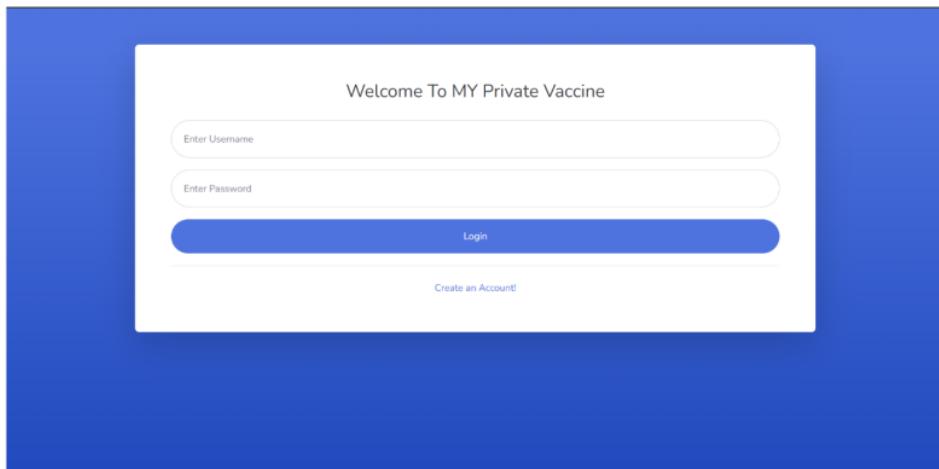
- d. Logout
 1) Logout button



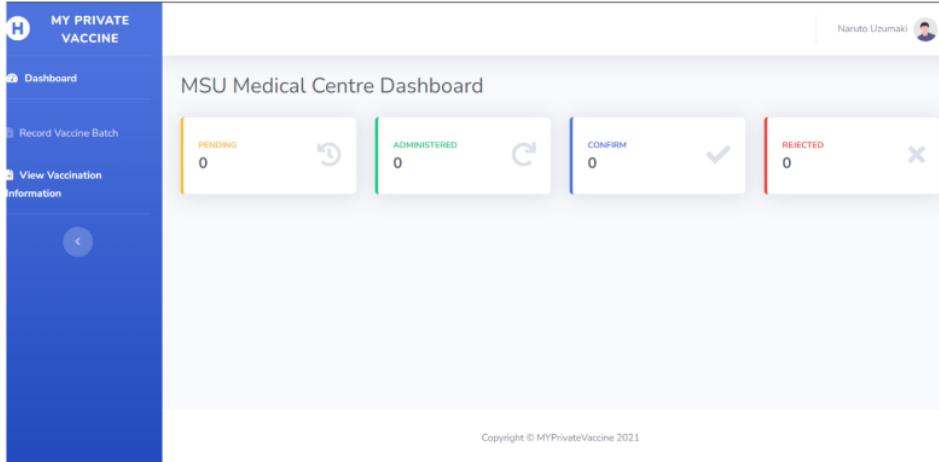
2) Logout confirmation



3) If user click yes, display login page

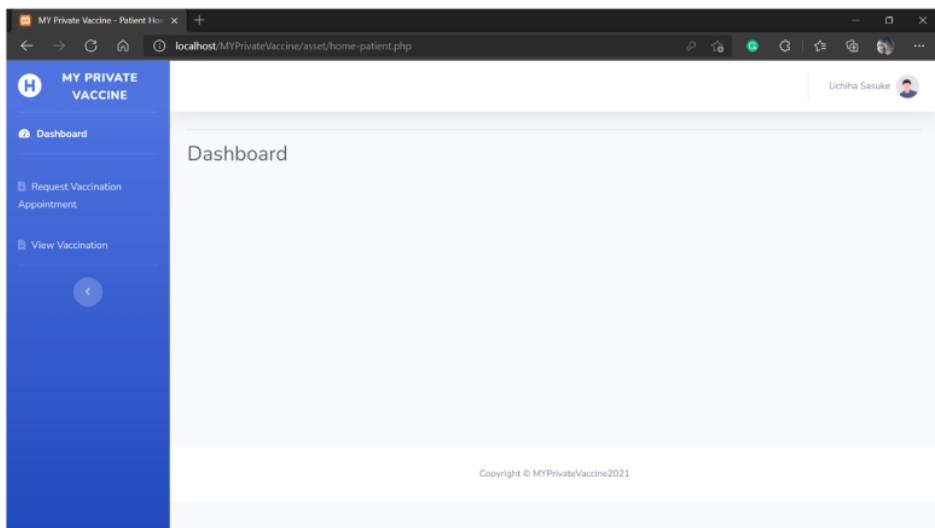
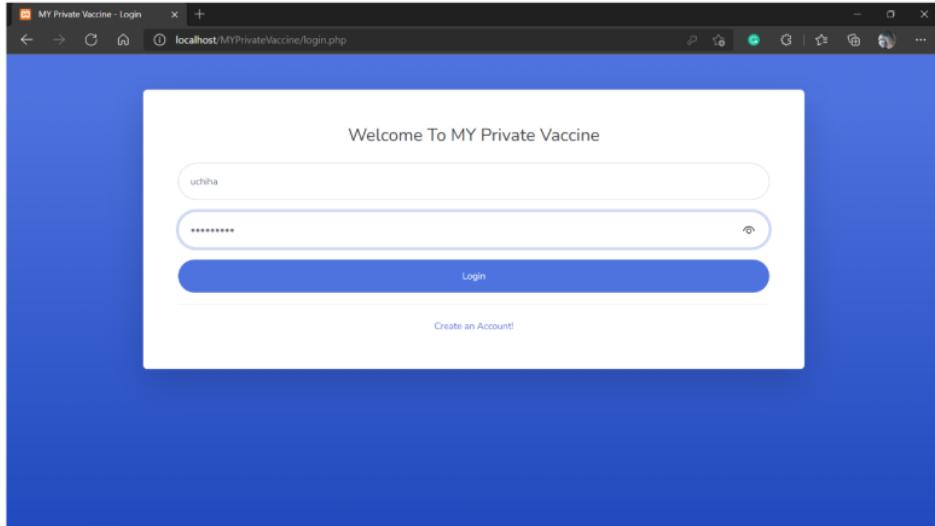


- 4) If user click cancel, confirmation notification disappear, user back to their last page



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



- Google Chrome

Welcome To MY Private Vaccine

uchiha

Login

Create an Account!

MY PRIVATE VACCINE

Dashboard

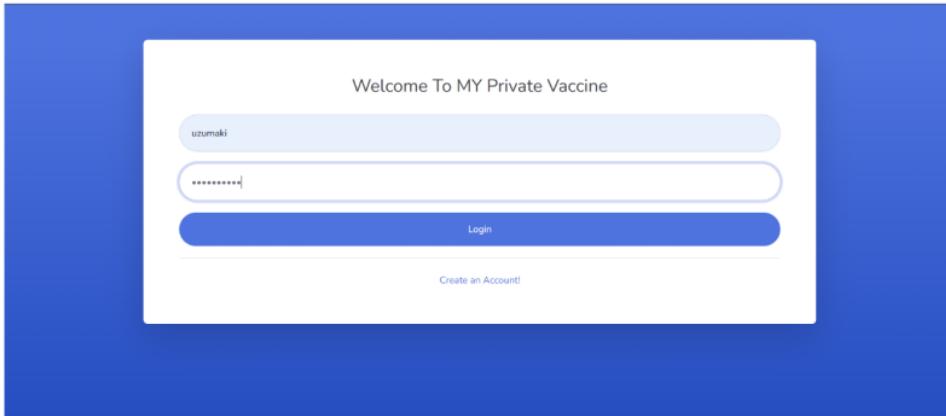
Request Vaccination Appointment

View Vaccination

Uchiha Sasuke

Copyright © MYPrivateVaccine2021

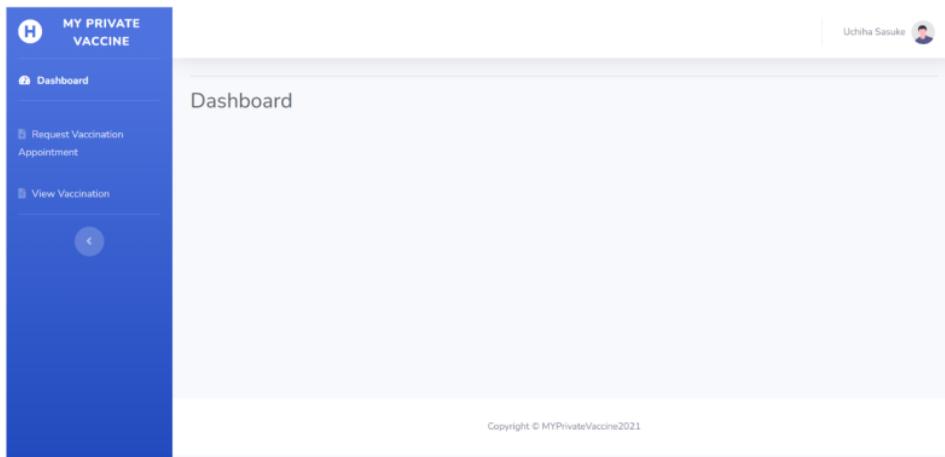
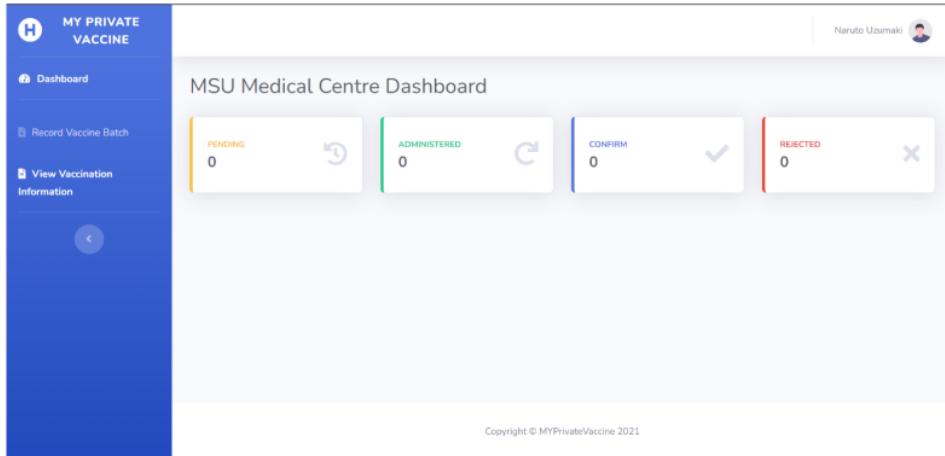
b. Security



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 1			
	Test Data	Expected output	Actual output	Remark(s)
Test case 1:	- Username: uchiha - Password: sasuke123	Password field changed to “...”	Password field changed to “...”	Pass

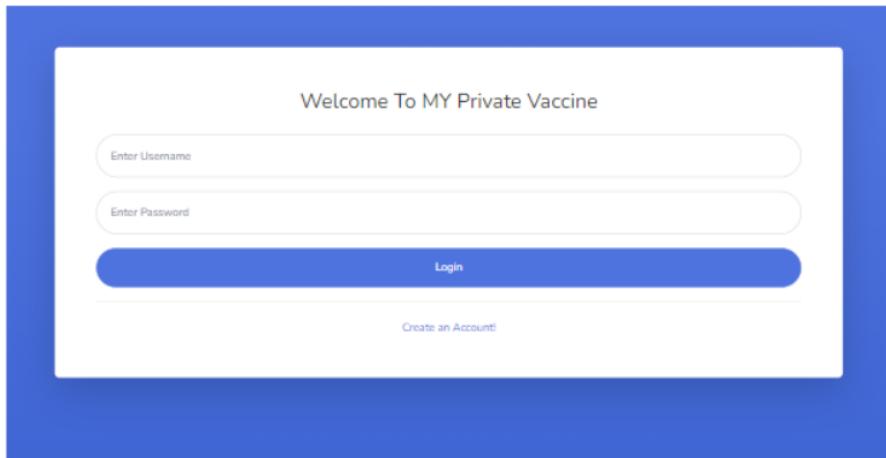
c. Usability

User friendly website with simple layout. Dashboard example.



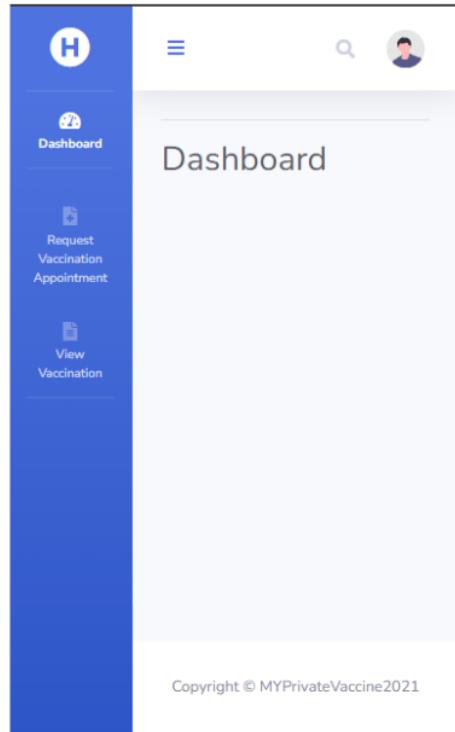
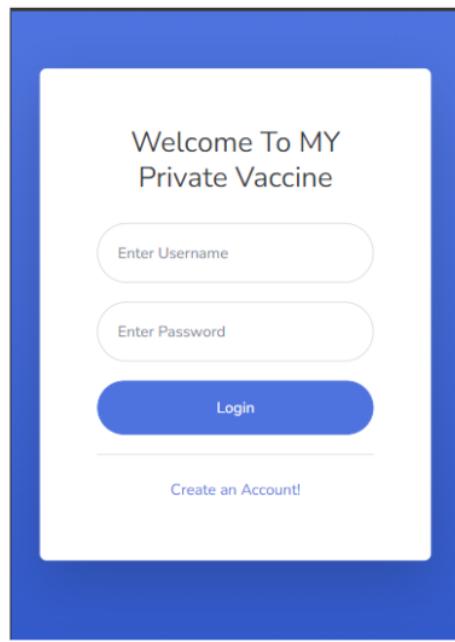
System can also be accessed through smart phone

- Tablet



The image shows the dashboard screen for the MY Private Vaccine application. On the left side, there is a sidebar with a blue header "MY PRIVATE VACCINE" and three menu items: "Dashboard", "Request Vaccination Appointment", and "View Vaccination". The main content area is titled "Dashboard" and contains a message "Copyright © MyPrivateVaccine2021". In the top right corner, there is a user profile section with the name "Uchiha Sasuke" and a small profile picture.

- Mobile Phone

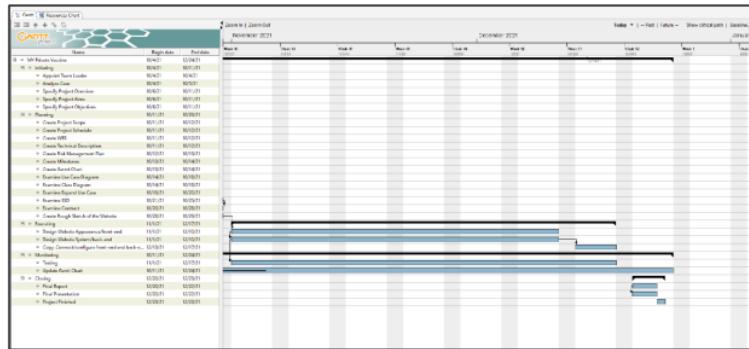
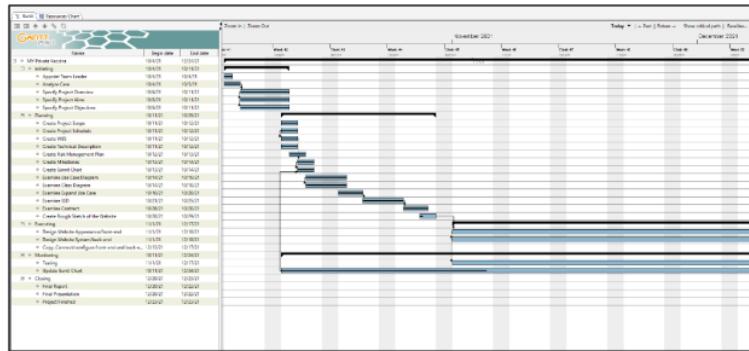


E. Test Analysis Report

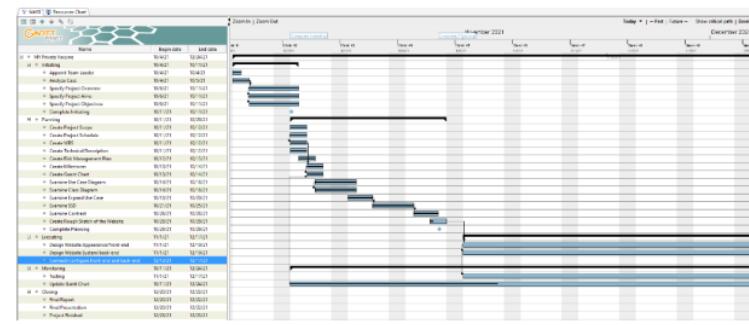
Four tests on the use cases produced in this initial iteration, starting with unit testing, integration testing, and system testing (functional and non-functional), show that the three use cases are qualified under the specified requirements. The absence of errors during testing and the test results indicate that the designed use case is capable of running in line with the requirements.

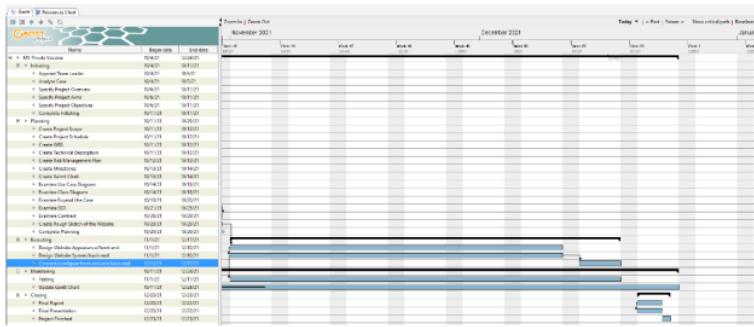
F. Gantt Chart Update

- Before



After





G. Git Hub

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

- Git Hub Main Page

The screenshot shows the GitHub main page for the repository 'zaraathifa / MY-Private-Vaccine'. The repository was created for assignment BIT302 SOFTWARE ENGINEERING. It contains 14 pull requests and 1 issue. The repository description is: 'MY Private Vaccine is a vaccine developed with aim to act as a middleman between the manufacturer and the consumer, private hospitals that provide vaccination services, and a national vaccination database.' The repository has 2 contributors: 'zaraathifa' and 'Mutukarika'. Languages used are Java and Python.

- Git Hub Commit History

The screenshot shows the commit history for the 'main' branch of the repository. It lists several commits from 'zaraathifa' and 'Mutukarika' over a period of 10 hours. The commits include updates to README files, adding files via upload, and merging pull requests. The last commit was made by 'Mutukarika' 2 hours ago.

- Git Hub Contributor Insight

The screenshot shows the GitHub Contributor Insights page for the repository. It displays a timeline of contributions from October 31, 2021, to December 3, 2021. A large green area chart shows the total contributions over time. Below the chart are two smaller charts for individual contributors: 'Mutukarika' and 'zaraathifa'. Both charts show a significant increase in contributions starting around November 20th.

IV. References

Hamilton, T. (2021, October 7). *TEST PLAN: What is, How to Create (with Example)*. Guru99. <https://www.guru99.com/what-everybody-ought-to-know-about-test-planing.html>

Appendix B – Peer Evaluation (Individual)

Made by: Ni Putu Zara Athifa Wijana (E1800193)

1 Skills	4 Advanced - exceeds expectations	3 Competent - meets expectations		2 Progressing - does not fully meet expectations		1 Beginning - does not meet expectations		Score
		Contributions & Attitude	Cooperation with Others	Focus, Commitments	Focus, Commitments	Focus, Commitments	Focus, Commitments	
		Always cooperative. Usually offers useful ideas. Always displays positive attitude.	Usually cooperative. Usually offers useful ideas. Generally displays positive attitude.	Could have shared more of the workload.	Did own part of workload. Cooperative.	Has difficulty.	Did not do any work.	4
		Works extremely well with others.	Works well with others.	Requires structure, directions, and leadership.	Requires structure, directions, and leadership.	Does not work well with others.	Does not contribute.	3
		Tries to keep people working together. Almost always	Does not cause problems in the group.	Sometimes focuses on the task.	Often is not a good team member.	Not always a good team member.	Does not focus on	4

	<p>focused on the task. Is most of the time. Can count on this person.</p> <p>Ability to Communicate</p> <ul style="list-style-type: none"> Always listens to, shares with, and supports the efforts of others. Sometimes talks too much. Provides some effective feedback. Relays a lot of relevant information. 	<p>Must be prodded and reminded to keep on task.</p> <p>Accuracy - documentation/coding etc.</p> <ul style="list-style-type: none"> Work is complete, well-organized, error-free, and done on time or early. 	<p>1</p> <p>the task. Let others do the work.</p> <p>4</p> <p>3</p> <p>TOTAL</p> <p>18/20</p>
	<p>Usually listens to, shares with, and supports the efforts of others.</p> <p>Sometimes talks too much. Provides some effective feedback.</p> <p>Relays some basic information that relates to the topic.</p>	<p>Often listens to, shares with, and supports the efforts of others.</p> <p>Usually does most of the talking.</p> <p>Rarely listens to others.</p> <p>Provides little feedback. Relays very little information that relates to the topic.</p>	<p>Rarely listens to, shares with, or supports the efforts of others. Is always talking and never listens to others.</p> <p>Provides no feedback. Does not relay any information to teammates.</p> <p>Work is generally complete, meets the requirements of the task, and is mostly done on time.</p>

Provide appropriate **measurables/milestones/deliverables** to support your answers for the following questions:

- a. How effectively did your group work?
 - > We have never had any big problems or difficulties that have affected the continuation of this project until the time this peer was written, so I dare claim that we are working very, very effectively. We will sustain and even improve our collaboration in the future.
- 1 b. Were the behaviors of any of your team members particularly valuable or detrimental to the team? Explain.
 - > This project has only two members. Muthia Kartika Putri capacity to be an optimistic and positive person is one of the qualities I like in her. And, because we are bound by deadlines and other duties, those two characteristics are really crucial to me in maintaining my sanity for the continuity of this project.
- 1 c. What did you learn about working in a group from this project that you will carry into your next group experience (e.g. assignment 3)?
 - > During this group project, I learned a lot. One of them is the significance of team communication in order to avoid miscommunication. Because there are two distinct people with different opinions, ways of thinking, and personalities, communication is essential.

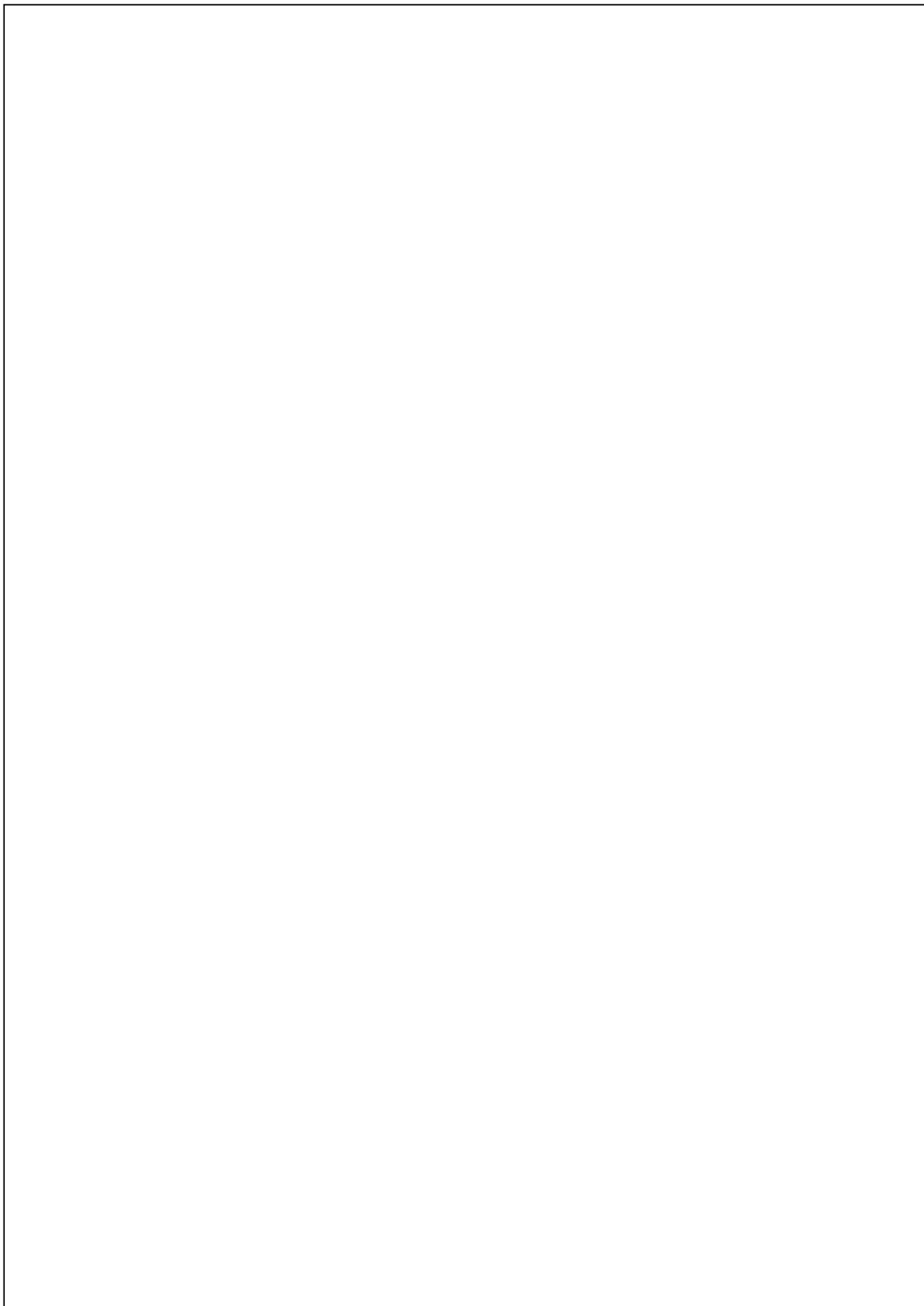
Appendix B – Peer Evaluation (Individual)
Made by: Muthia Kartika Putri (E1800189)

1 Skills	4 Advanced - exceeds expectations	3 Competent - meets expectations	2 Progressing - does not fully meet expectations	1 Beginning - does not meet expectations	Score
Contributions & Attitude	Always cooperative. Routinely offers useful ideas. Always displays positive attitude.	Usually cooperative. Usually offers useful ideas. Generally displays positive attitude.	Sometimes cooperative. Sometimes offers useful ideas. Rarely displays positive attitude.	Seldom cooperative. Rarely offers useful ideas. Is disruptive.	3
Cooperation with Others	Did more than others. Highly productive. Works extremely well with others.	Did own part of workload. Cooperative. Works well with others.	Could have shared more of the workload. Has difficulty. Requires structure, directions, and leadership.	Did not do any work. Does not contribute. Does not work well with others.	3
Focus, Commitments	Tries to keep people working together. Almost always	Does not cause problems in the group. Focuses on the task	Sometimes focuses on the task. Not always a good team member.	Often is not a good team member. Does not focus on	4

	<p>focused on the task. Is very self-directed.</p> <p>Ability to Communicate</p>	<p>most of the time. Can count on this person.</p> <p>Accuracy - documentation/coding etc.</p>	<p>Must be prodded and reminded to keep on task.</p> <p>Usually listens to, shares with, and supports the efforts of others.</p> <p>Always listens to, shares with, and supports the efforts of others.</p> <p>Sometimes talks too much. Provides some effective feedback.</p> <p>Relays a lot of relevant information.</p> <p>Work is complete, well-organized, error-free, and done on time or early.</p>	<p>1</p> <p>Rarely listens to, shares with, or supports the efforts of others. Is always talking and never listens to others.</p> <p>Usually does most of the talking.</p> <p>Rarely listens to others. Provides little feedback. Relays very little information that relates to the topic.</p> <p>Work tends to be disorderly, incomplete, inaccurate, and is usually late.</p> <p>Rarely listens to, shares with, or supports the efforts of others. Is always talking and never listens to others.</p> <p>Provides no feedback. Does not relay any information to teammates.</p> <p>Work is generally complete, meets the requirements of the task, and is mostly done on time.</p>	<p>the task. Let others do the work.</p> <p>4</p> <p>4</p>
				<p>TOTAL</p>	<p>18 / 20</p>

Provide appropriate **measurables/milestones/deliverables** to support your answers for the following questions:

- a. How effectively did your group work?
 - > We work together very effectively. We often exchange ideas and hold meetings both offline and online so that the project runs smoothly.
- b. Were the behaviors of any of your team members particularly valuable or detrimental to the team? Explain.
 - > The other team member, Zara Athifa who is also the leader, is doing her job well. She really cares about details and was able to correct me if something was missed. Zara Athifa is also a good listener.
- c. What did you learn about working in a group from this project that you will carry into your next group experience (e.g. assignment 3)?
 - > The lesson I took from this project was the importance of teamwork, because it is difficult to do all the necessary work alone. Also I during this project I can hone my problem solving and time management skills



E1800193&E1800189 BIT302 Assignment 2 Submission

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