**BIT302 Software Engineering**

**Assignment 3**

**“Web-based Covid Track Information System to Keep Track of Covid-19 Test”**

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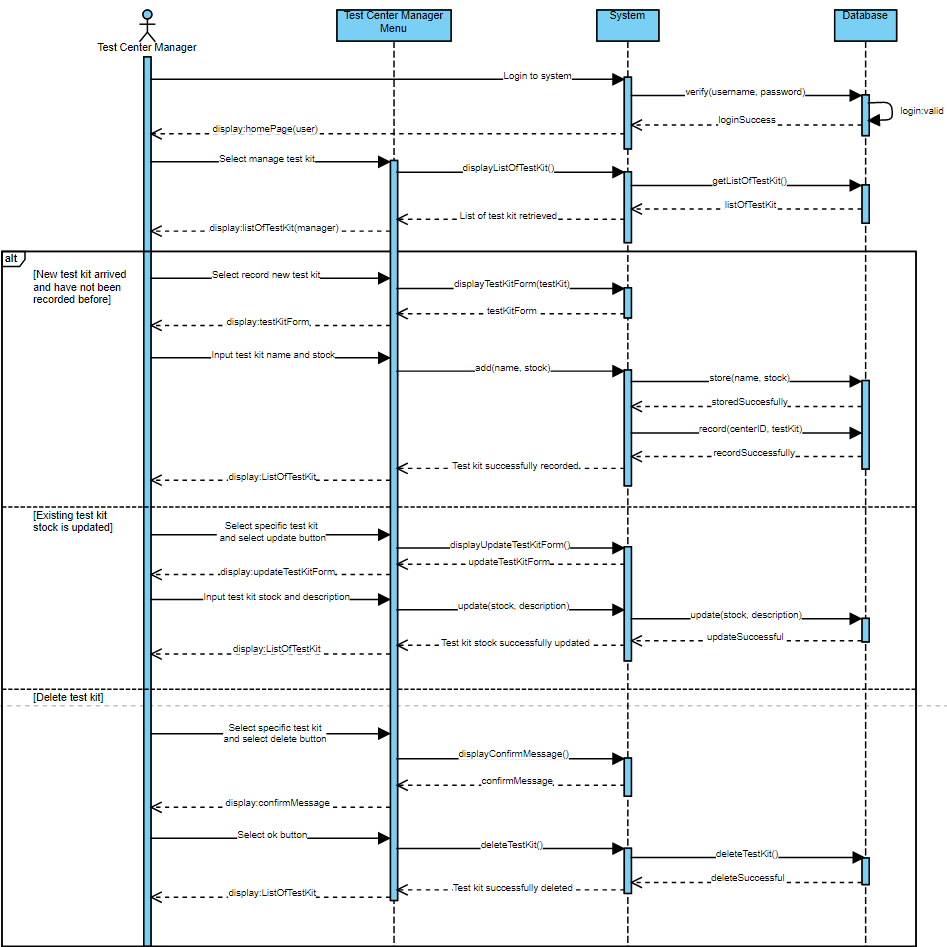
# **Assignment 1 and 2 Follow-Up**

## **Updates on Analysis Design/Documentation**

**Manage Test Kit Update**

**Prepared by:** I Gede Made Armani Bagus Saputra

|  |  |  |
| --- | --- | --- |
| Use Case Name | Manage Test Kit Stock | |
| Goal in Context | To allow the Test Center Manager to manage test kit stock that can be used to perform Covid-19 testing | |
| Primary Actor | Test Center Manager | |
| Trigger | Test center manager receives new stock of test kits or test center manager wants to delete test kit | |
| **Typical Course of Events** | | |
| **Actor Action** | | **System Response** |
| 1. This use case begins when test kits arrived for the test center manager. | |  |
| 1. The test centers manager logs in with username and password. | | Home page for the test center officer is shown. |
| 1. The test center manager selects to manage test kit stock. | | The list of test kit showing kitID, test kit name, and available stock are displayed. |
| 1. The test center manager selects to record new test kit. | | The text boxes for entering the test kit name and stock are shown. |
| 1. The test center manager enters the test kit name and stock. | | New test kit and stock recorded, test kitID is automatically generated. |
| **Alternative Course of Events** | | |
| 3b. If there is existing stock for a given test kit, the stock is updated. | | |
| 3c. If the test center manager select delete button in the specified test kit, the test kit deleted. | | |

****

|  |  |
| --- | --- |
| **Cross Reference** | **Manage Test Kit Stock** |
| **Operation** | Login with username and password |
| **Responsible** | To get access for the test center manager to record test kit |
| **Pre-conditions** | Username and password should match |
| **Post-conditions** | The test center enters the matched username and password. Then, system will display the home page. |
| **Cross Reference** | **Manage Test Kit Stock** |
| **Operation** | Test Centre Manager manage test kit stock |
| **Responsible** | To allow the test center manager to manage the stock of test kit in the test center |
| **Pre-conditions** | New stock of test kit arrived or the test kit will not be used anymore |
| **Post-conditions** | **If** the test center manager receives new test kit  **Then**, new test kit will be recorded and display successful notification  **If** there is existing stock for test kit  **Then**, test kit stock updated  **Else**, the test center manager select delete button then the test kit deleted |

## **Problems Faced in Iteration 1**

1. Multiple Changes in Website Design

* **Problem**: Team members were indecisive in choosing the design of the website due to multiple choice of design we have prepared.
* **Solution**: Having a discussion on which design has the most user-friendly and simple interface, then later done a survey followed by third-parties.

1. Debugging

* **Problem**: Due to multiple of technologies involved in the development of the system, Team Members had a hard time fixing broken features and locate which part of the system or code is having an error.
* **Solution**: Tracking and analyzing each of the code and database implemented and use a debugger to identify the error in the system.

1. Implementation of Database Relationship and Interaction with Code

* **Problem**: Team members had difficulty in linking the database with the code where the database relationship is one to many. This problem occurred in the development of add new test use case which the system requires to add the data inputted into two databases.
* **Solution**: Do a research and watch videos that explains about the implementation of database relationship and design and its interaction with the code.

1. Integrating Different Technology

* **Problem**: The system is combined by 5 programming languages, which are HTML, CSS, Javascript, PHP and SQL, this resulting in complexity of the code that team members found it hard to develop and maintain due to lack of knowledge in website programming.
* **Solution**: Do a research and analysis from book or online lecture that explains about website programming as well as ask for guidance from the lecturer in the design documentation of this project.

# **Iteration 2**

## **Identification of Use Cases**

|  |  |
| --- | --- |
| **Use Case** | **Responsible** |
| Login | I Gede Made Armani Bagus Saputra |
| Logout | Ni Putu Dwi Candra Pertiwi |
| Record Tester | I Gede Made Armani Bagus Saputra |
| Record New Test | I Gede Made Armani Bagus Saputra |
| Manage Test Kit Stock | I Gede Made Armani Bagus Saputra |
| Update Test Result | Ni Putu Dwi Candra Pertiwi |

## **Screen-shots**

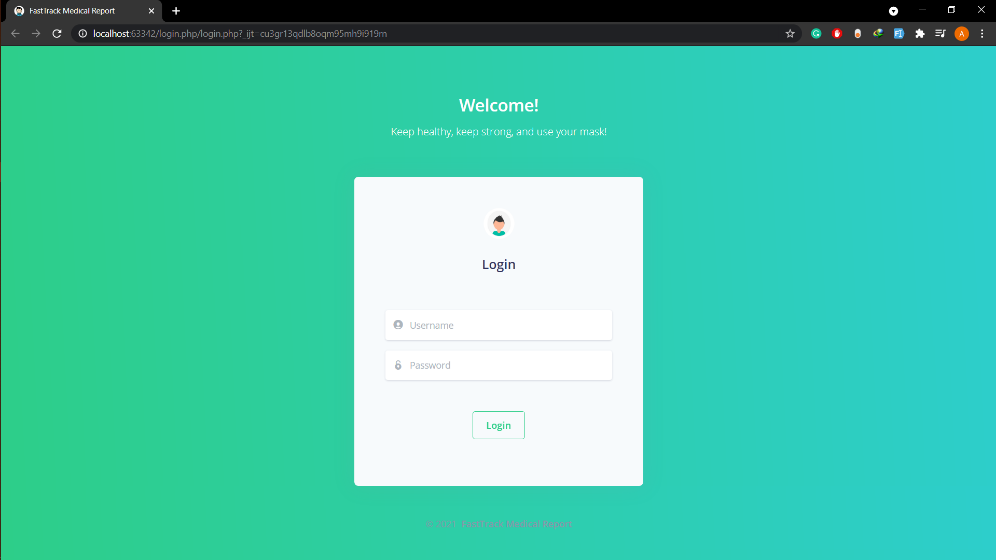


Figure 1: Login Page

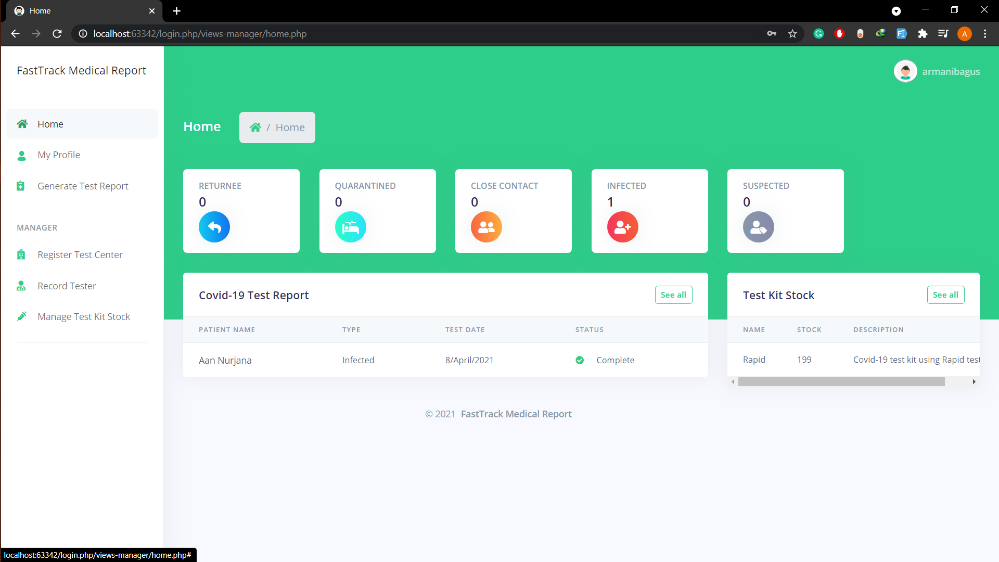


Figure 2: Manager Home page

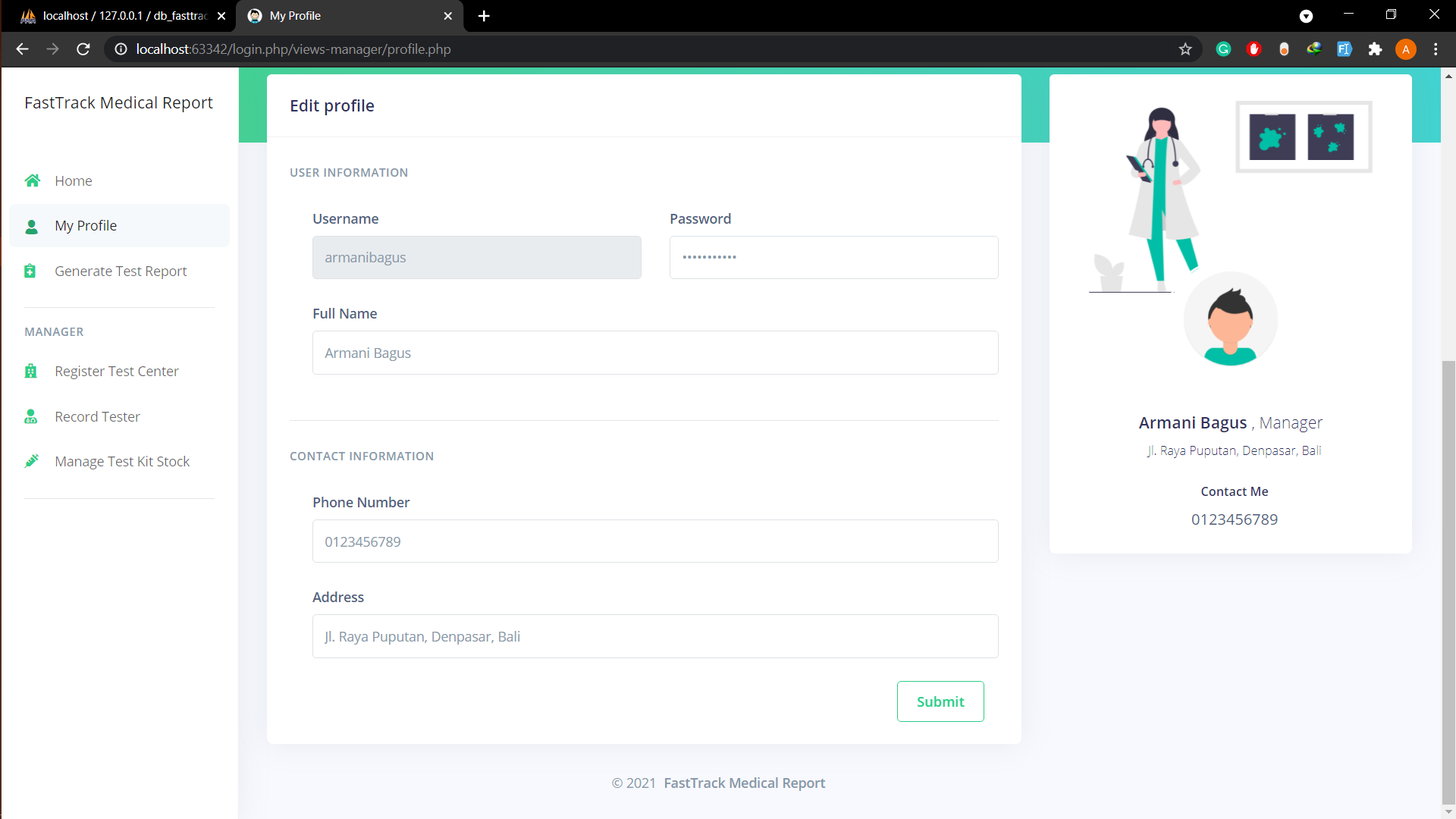


Figure 3: My Profile Page

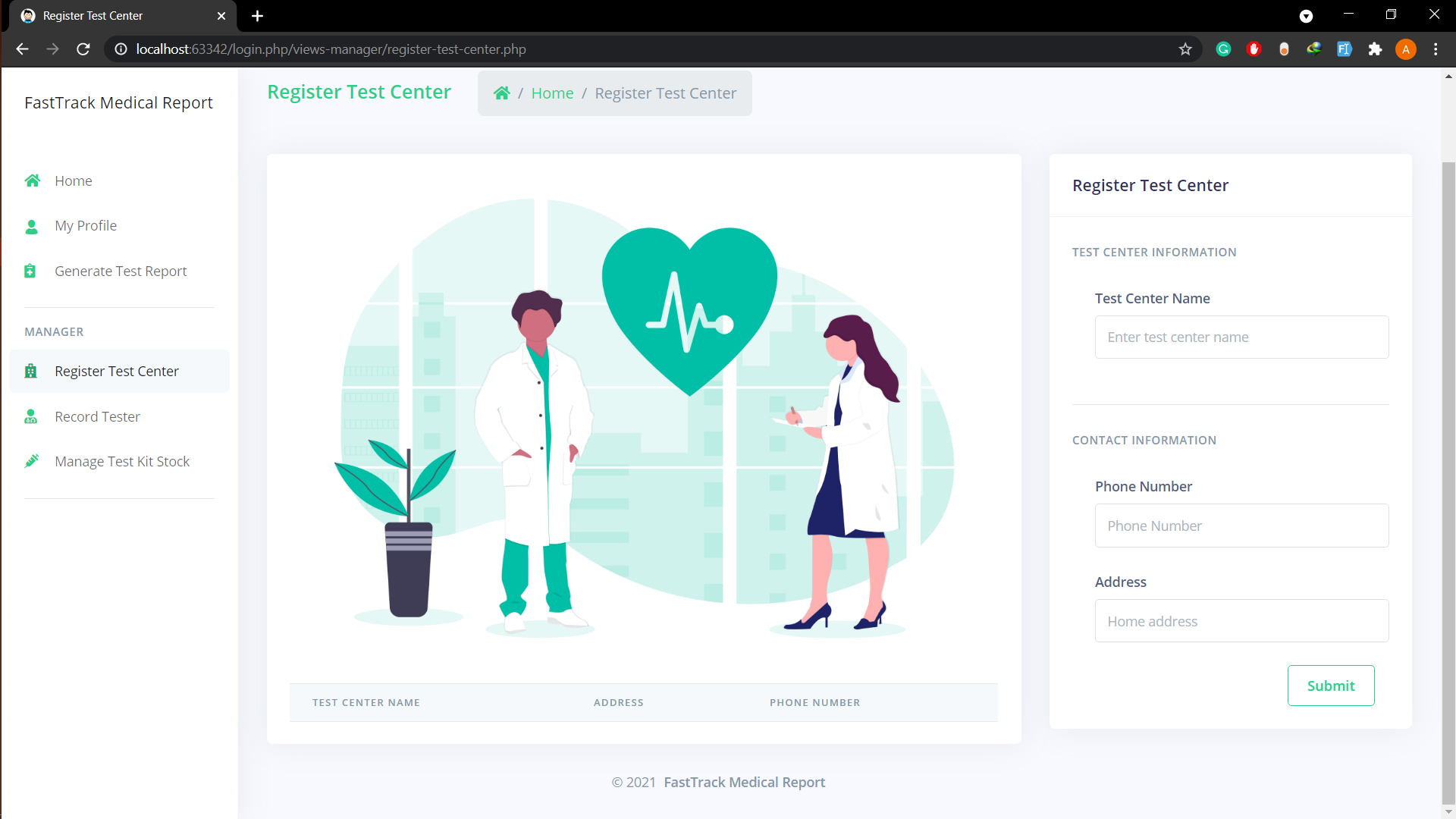


Figure 4: Register Test Center Page

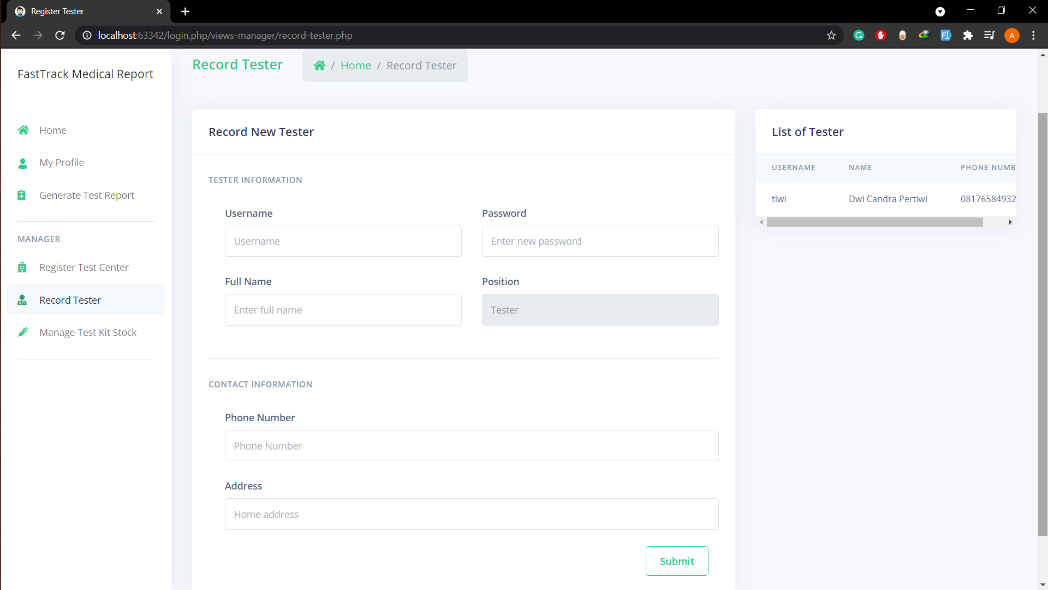


Figure 5: Record Tester Page

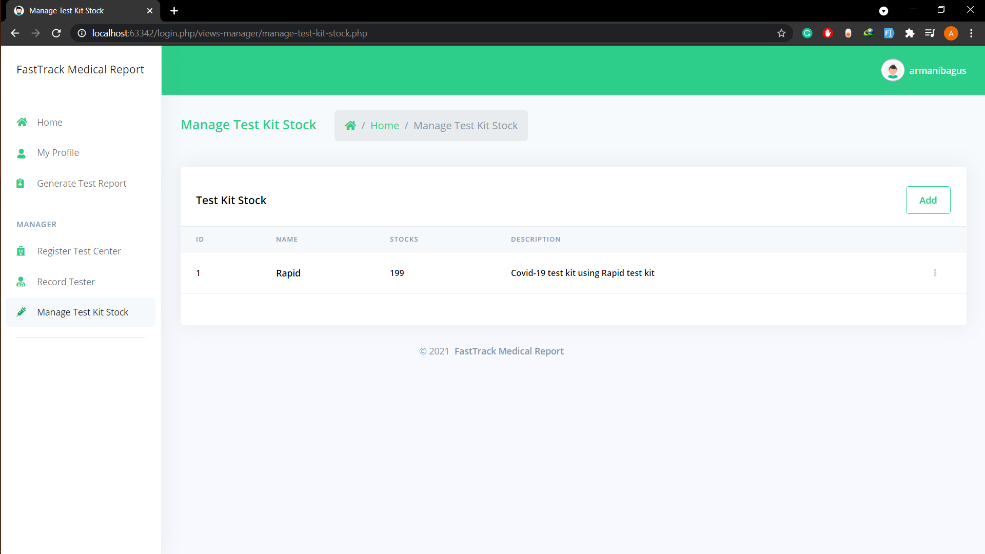


Figure 6: Manage Test Kit Stock Page

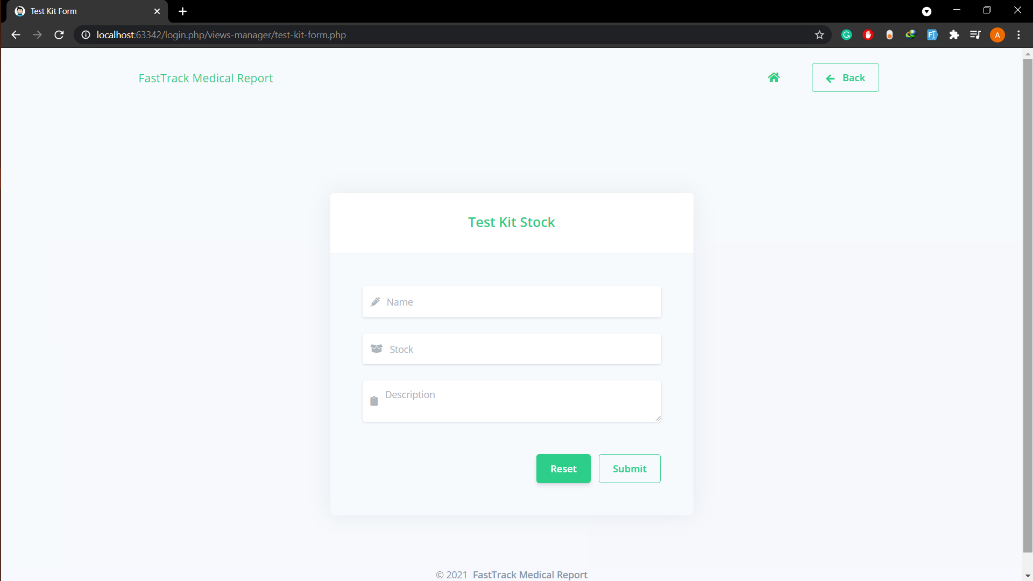


Figure 7: Add New Test Kit Stock Form

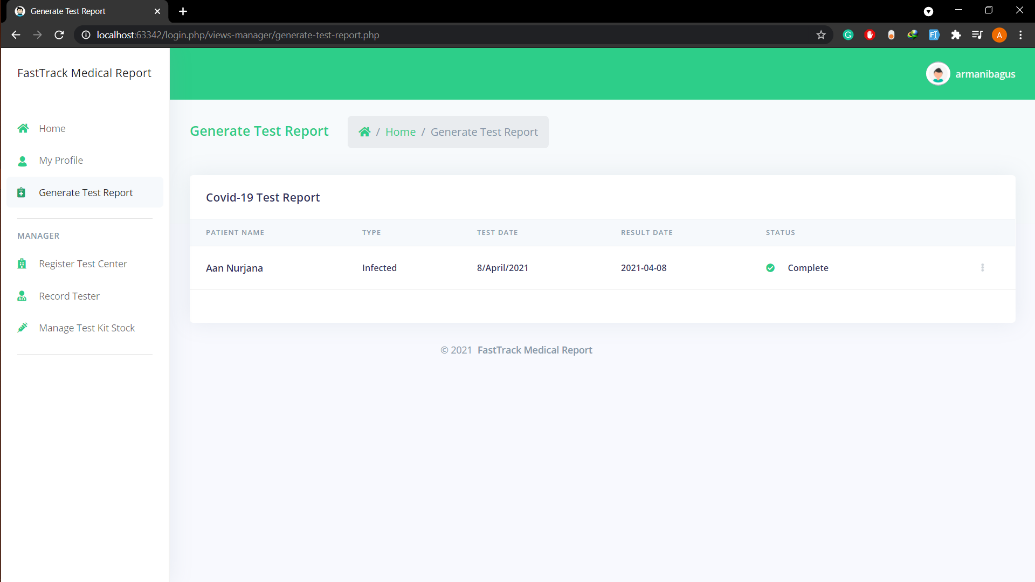


Figure 8: Generate Test Report Page

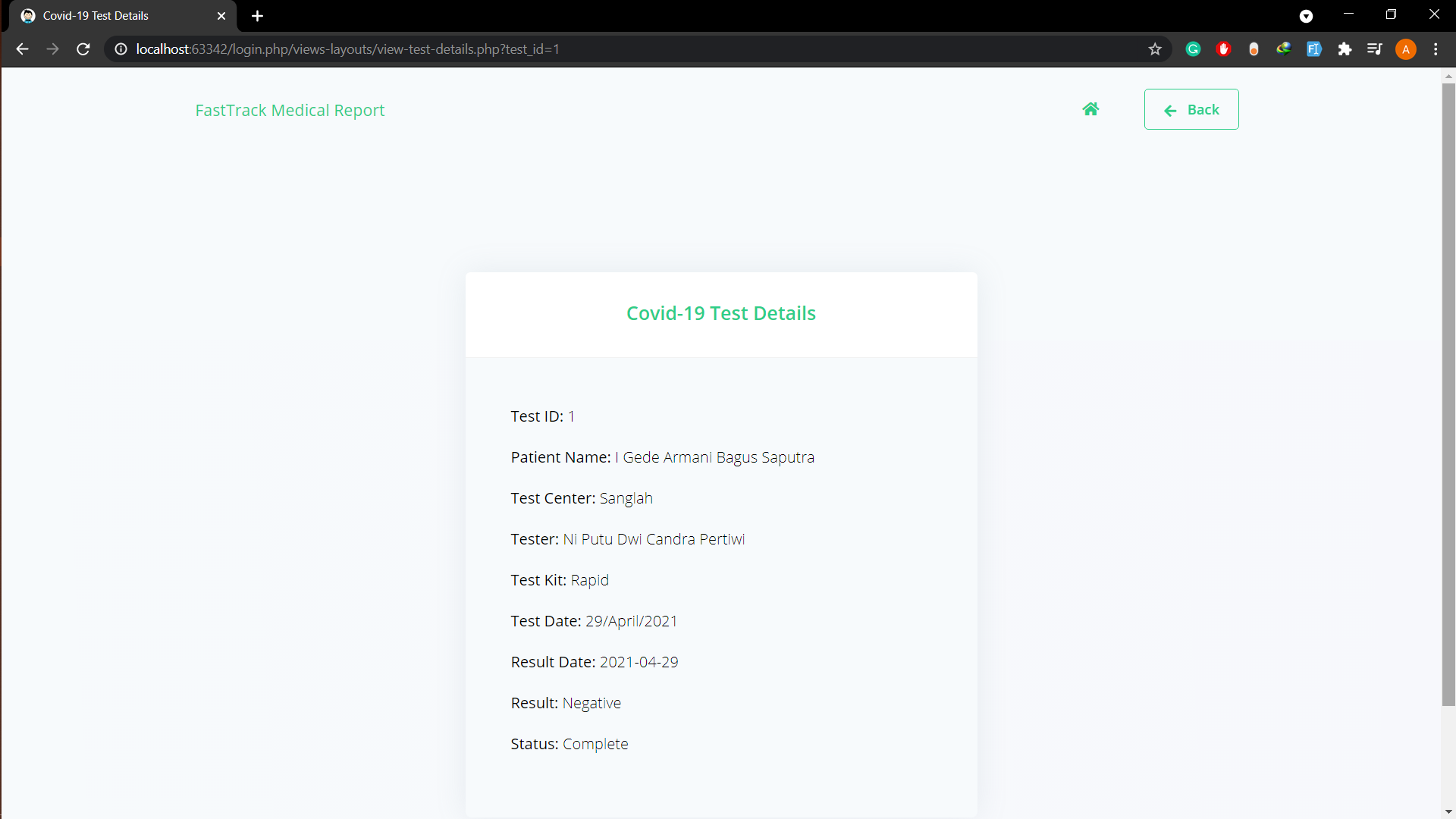


Figure 9: Test Report Details

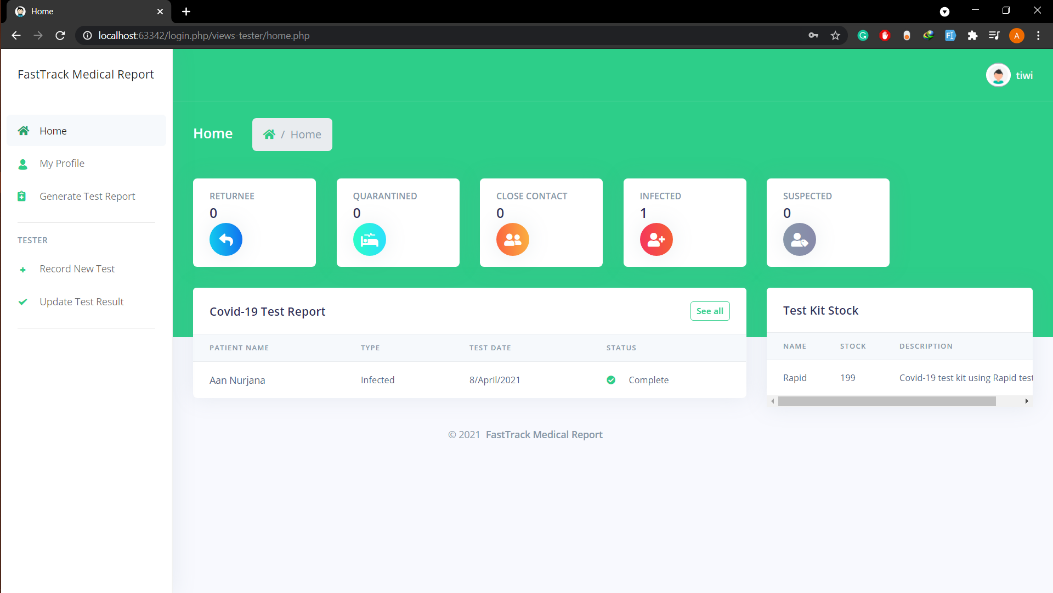


Figure 10: Tester Home Page

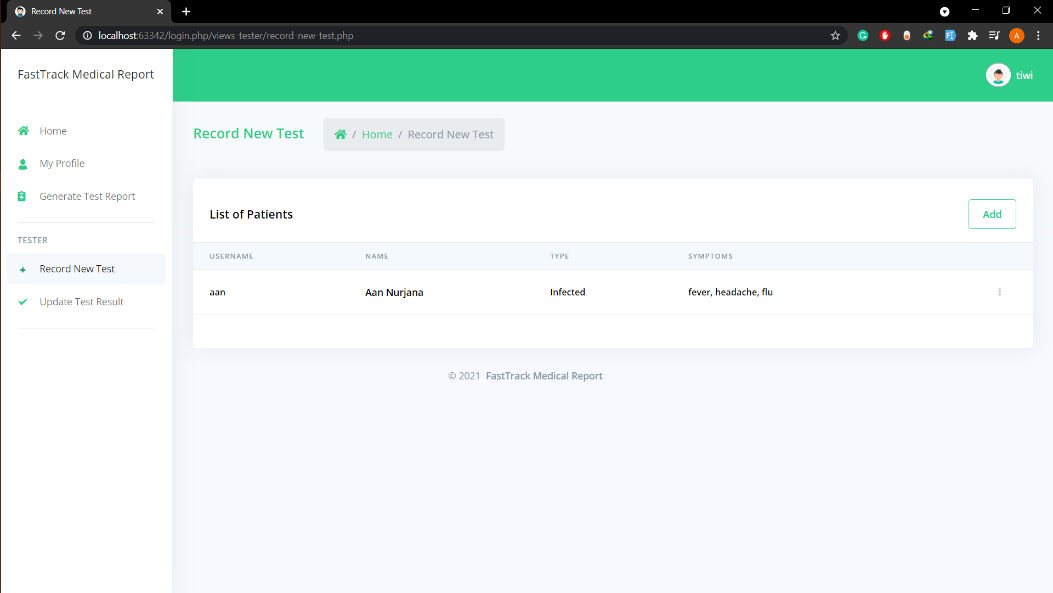


Figure 11: Record New Test Page

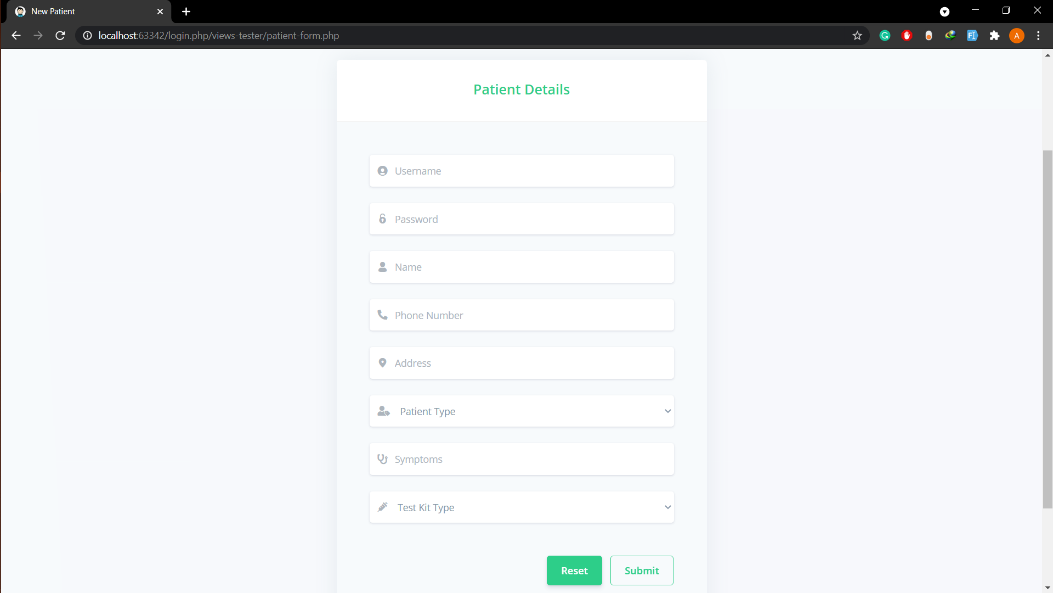


Figure 12: Add New Patient Form

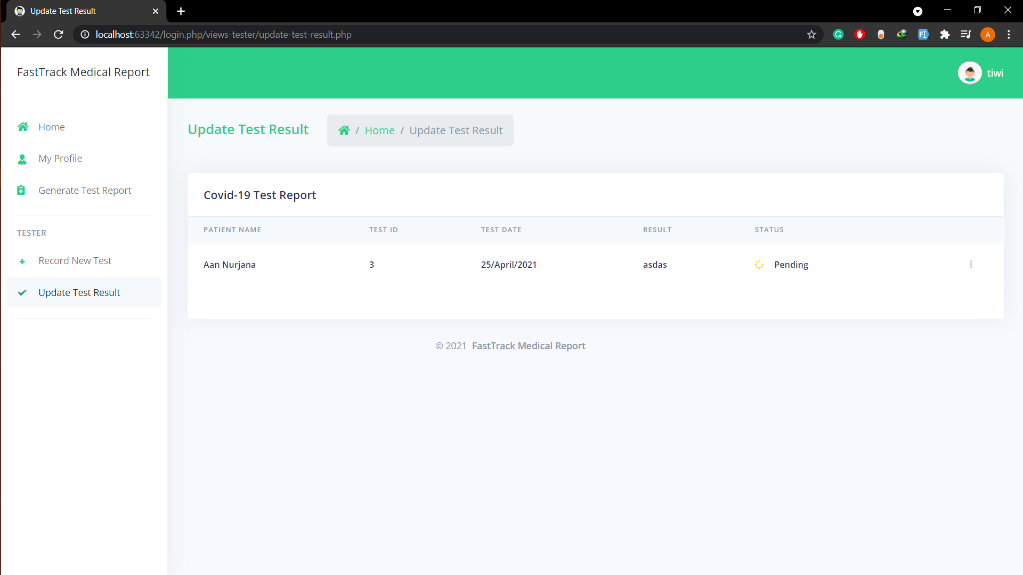


Figure 13: Update Test Result Page

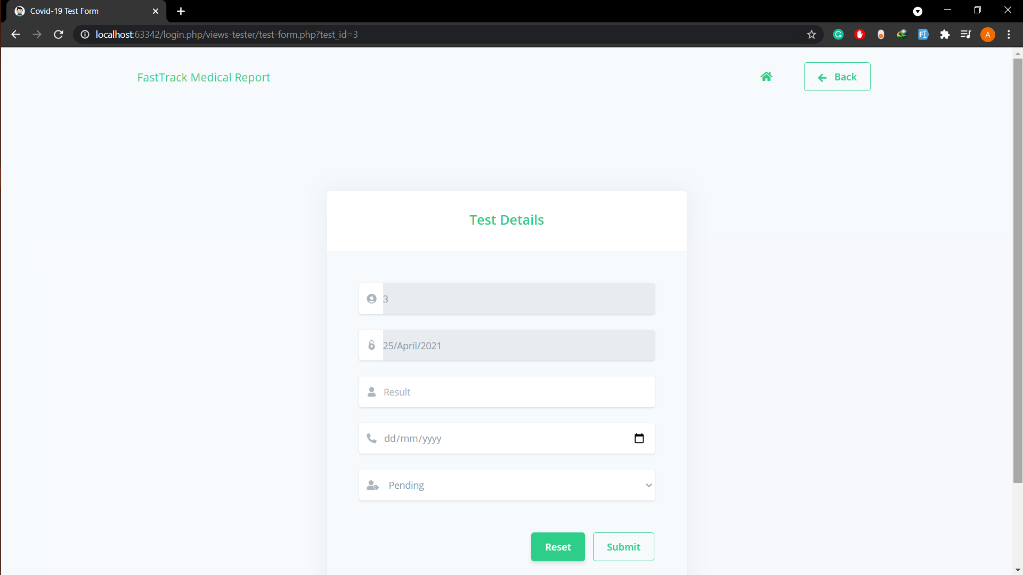


Figure 14: Update Test Result Form

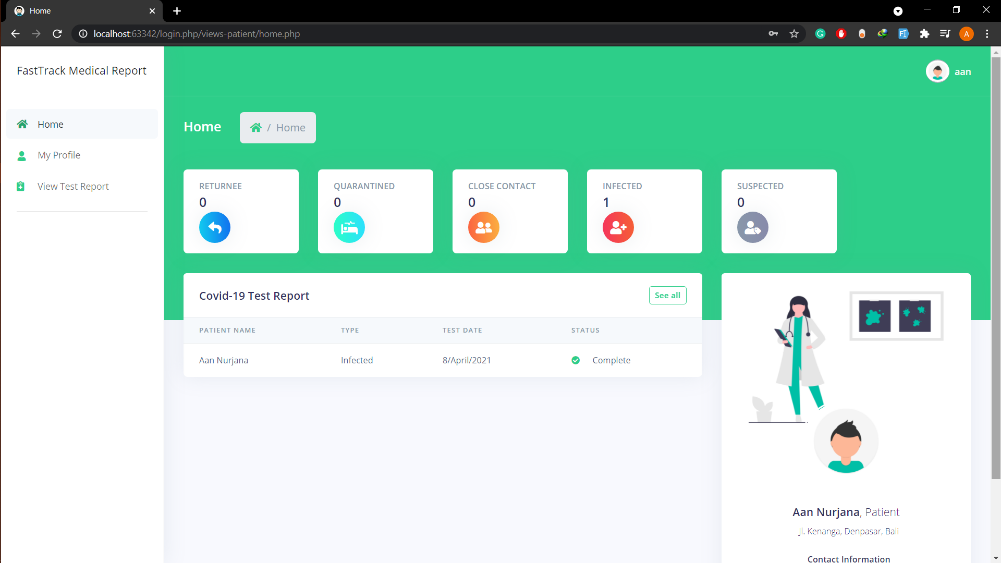


Figure 15: Patient Home Page

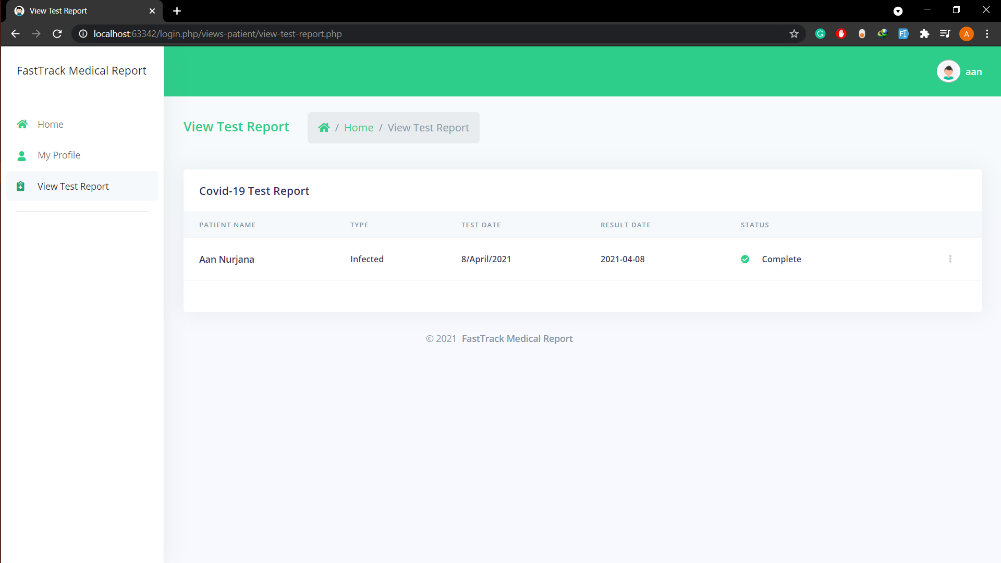


Figure 16: View Test Report Page

## **Test Objectives**

1. Test Objectives I Gede Made Armani Bagus Saputra:

* User has to fill in the appropriate username and password, otherwise system will give error message.
* Username cannot be the same with other username that has been recorded previously (has to be 6-16 characters) and password has to be unique with 6-16) characters minimum in Record Tester and Record New Test.
* In Manage Test Kit when adding new Test Kit, the Test Kit name cannot be the same as others Test Kit and user is able to delete a Test Kit.

1. Test Objectives Ni Putu Dwi Candra Pertiwi:

* User has to do verification when they want to log out of the system.
* User given an optional button for the Test Result section in Update Test Result.

## **Test Plan**

1. Test Plan I Gede Made Armani Bagus Saputra

|  |  |  |  |
| --- | --- | --- | --- |
| Type of Testing | Strategy/Approach | Tools (if any) | Schedule |
| Unit Testing   * Login * Record Tester * Record New Test * Manage Test Kit | Black-Box | PHP-Storm | From yr gantt chart  22/3/21 – 27/04/21 |
| Integration Testing | Black-Box | PHP-Storm | From yr gantt chart  22/3/21 – 27/04/21 |
| Functional Testing | Black-Box | PHP-Storm | From yr gantt chart  22/3/21 – 27/04/21 |
| Non-Functional Testing | Black-Box | PHP-Storm | From yr gantt chart  22/3/21 – 27/04/21 |

1. Test Plan Ni Putu Dwi Candra Pertiwi

|  |  |  |  |
| --- | --- | --- | --- |
| Type of Testing | Strategy/Approach | Tools (if any) | Schedule |
| Unit Testing   * Logout * Update Test Result | Black-Box | PHP-Storm | From yr gantt chart  22/3/21 – 27/04/21 |
| Integration Testing | Black-Box | PHP-Storm | From yr gantt chart  22/3/21 – 27/04/21 |
| Functional Testing | Black-Box | PHP-Storm | From yr gantt chart  22/3/21 – 27/04/21 |
| Non-Functional Testing | Black-Box | PHP-Storm | From yr gantt chart  22/3/21 – 27/04/21 |

## **Test Cases**

### **Unit Testing**

* Login

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-001 | | | |
| Use Case | Login | | | |
| Test Description | User login by entering appropriate username and password and will be directed to the representative homepage, otherwise system will give an error. | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | Username: armanibagus  Password: tiwitiwi | System gave an error message and require user to fill in the appropriate username and passoword | System gave an error message and require user to fill in the appropriate username and passoword | PASS |
| Test Case 2: | Username: candrapertiwi  Password: tiwitiwi | User directed to their representative homepage | User directed to their representative homepage | PASS |

* Logout

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-002 | | | |
| Use Case | Logout | | | |
| Test Description | User has to do verification to log out of the system | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | User click the logout button and do a verification | Back to login page | Back to login page | PASS |

* Record Tester

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-003 | | | |
| Use Case | Register Tester | | | |
| Test Description | User Manager register the Tester based on requirement given (username and has to be unique) | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | 1. username: dwicandra 2. password: tiwi123 3. name: Ni Dwi Candra Pertiwi 4. position: Tester 5. phone number: 081923829212 6. address: Lingkungan Perang Lukluk | Data will be submitted into database and displayed in the table on the right side of the register form | Data will be submitted into database and displayed in the table on the right side of the register form | PASS |
| Test Case 2: | 1. username: dwicandra 2. password: tiwi123 3. name: Ana Banana 4. position: Tester 5. phone number: 08738329382 6. address: Denpasar, Bali | System will give error message and require user to enter another username and password that haven’t been registered | System will give error message and require user to enter another username and password that haven’t been registered | PASS |
| Test Case 3: | 1. username: tiwi 2. password: tiwi 3. name: Ana Banana 4. position: Tester 5. phone number: 08738329382 6. address: Denpasar, Bali | System will give error message and ask user to enter 6-16 character minimum of username and password | System will give error message and ask user to enter 6-16 character minimum of username and password |  |

* Manage Test Kit Stock

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-004 | | | |
| Use Case | Manage Test Kit Stock | | | |
| Test Description | User Manager Manage test kit stock based on requirement given | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | 1. name: Rapid 2. Stock: 1000 3. Description: Rapid test used to test the patient | Data will be submitted into database and displayed on the table of tester. | Data will be submitted into database and displayed on the table of tester. | PASS |
| Test Case 2: | 1. name: Rapid 2. Stock: 999 3. Description: New test kit | System will give an error message and require user to re-enter a new test kit name that haven’t been registered before | System will give an error message and require user to re-enter a new test kit name that haven’t been registered before | PASS |
| Test Case 3: | User click on the test kit that they want to delete | System ask user verification and delete the test kit data | System ask user verification and delete the test kit data | PASS |

* Record New Test

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-005 | | | |
| Use Case | Record New Test | | | |
| Test Description | User Tester recording a new patient and test based on requirement given (username and has to be unique) | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | 1. Username: armanibagus1 2. Password: bagus123 3. Name: I Gede Armani Bagus Saputra 4. Phone Number: 08129237347 5. Address: Jl. Peguyangan, Denpasar, Bali 6. Patient Type: Close Contact 7. Symptoms: Fever, Coughing 8. Test Kit Type: Rapid | Data will be submitted into database and displayed on the table list of patients. | Data will be submitted into database and displayed on the table list of patients. | PASS |
| Test Case 2: | 1. Username: armanibagus1 2. Password: bagus123 3. Name: Armani Bagus Saputra 4. Phone Number: 08129237347 5. Address: Jl. Nangka, Denpasar, Bali 6. Patient Type: Close Contact 7. Symptoms: Fever, Coughing 8. Test Kit Type: Rapid | System will give error message and require user to enter another username and password that haven’t been registered | System will give error message and require user to enter another username and password that haven’t been registered | PASS |
| Test Case 3: | 1. Username: bagas 2. Password: agus1 3. Name: Armani Bagus 4. Phone Number: 08129237347 5. Address: Jl. Nangka, Denpasar, Bali 6. Patient Type: Close Contact 7. Symptoms: Fever, Coughing 8. Test Kit Type: Rapid | System will give error message and ask user to enter 6-16 character minimum of username and password | System will give error message and ask user to enter 6-16 character minimum of username and password | PASS |

* Update Test Result

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-006 | | | |
| Use Case | Update Test Result | | | |
| Test Description | User Tester recording updating the data for the covid test available that has been registered before. | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | User choose the test result based on the option given | System records the test result that user has chosen and recorded it to database | System records the test result that user has chosen and recorded it to database | PASS |

### **Integration Testing**

* Login

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-001 | | | |
| Use Case | User : Login 🡪 Representative Homepage | | | |
| Test Description | Login test to make sure that user entered appropriate username and password | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | Username: armanibagus  Password: tiwitiwi | Username/Password incorrect. | Username/Password incorrect. | PASS |
| Test Case 2: | Username: armanibagus  Password: bagusarmani | Directed to the representative homepage. | Directed to the representative homepage. | PASS |

* Logout

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-002 | | | |
| Use Case | User : Logout 🡪 Login Page | | | |
| Test Description | User do verification to log out of system | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | User click logout button | User is asked to do verification and directed to login page if user click yes. If user open multiple pages of the system, all the pages will also be directed to login page. | User is asked to do verification and directed to login page if user click yes. If user open multiple pages of the system, all the pages will also be directed to login page. | PASS |

* Record Tester

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-003 | | | |
| Use Case | Manager : Login 🡪 Record Tester | | | |
| Test Description | Checking if the system is available to check and give validation for similar username and password | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. username: candrapertiwi1 2. password: tiwitiwi 3. name: Ni Dwi Candra Pertiwi 4. position: Tester 5. phone number: 081923829212 6. address: Lingkungan Perang Lukluk | Recorded successfully. | Recorded successfully | PASS |
| Test Case 2: | 1. username: candrapertiwi1 2. password: tiwitiwi 3. name: Ana Banana 4. position: Tester 5. phone number: 08738329382 6. address: Denpasar, Bali | Record unsuccessful. | Record unsuccessful. | PASS |

* Manage Test Kit

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-004 | | | |
| Use Case | Manager : Login 🡪 Manage Test Kit | | | |
| Test Description | User Manager Manage test kit stock based on requirement given | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. name: Rapid 2. Stock: 1000 3. Description: Test Kit from China | Recorded successfully. | Recorded successfully | PASS |
| Test Case 2: | 1. name: Rapid 2. Stock: 999 3. Description: Test Kit from Indonesia | Record unsuccessful. | Record unsuccessful. | PASS |

* Record New Test

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-005 | | | |
| Use Case | Tester : Login 🡪 Record New Test | | | |
| Test Description | Checking if the system is available to check and give validation for similar username and password | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. Username: candrapertiwi 2. Password: cand123 3. Name: Candra Pertiwi 4. Phone Number: 08129237347 5. Address: Lingk. Perang Lukluk 6. Patient Type: Close Contact 7. Symptoms: Fever, Coughing 8. Test Kit Type: Rapid | Recorded successfully. | Recorded successfully | PASS |
| Test Case 2: | 1. Username: candrapertiwi 2. Password: cand123 3. Name: Dwi Candra Pertiwi 4. Phone Number: 08129237347 5. Address: Lingk. Perang Lukluk 6. Patient Type: Close Contact 7. Symptoms: Fever, Coughing 8. Test Kit Type: Rapid | Record unsuccessful. | Record unsuccessful. | PASS |

* Update Test Result

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-006 | | | |
| Use Case | Tester : Login 🡪 Update Test Result | | | |
| Test Description | User Tester recording updating the data for the covid test available that has been registered before. | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. Test ID: 12 2. Date: 8/April/2021 3. Result: Positive 4. Result Date: 9/April/2021 5. Status: Completed | Updates successfully. | Updated successfully | PASS |

### **System Testing**

* Functional Requirement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-001 | | | |
| Use Case | Login | | | |
| Test Description | User login to the system | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. username = “armanibagus” 2. password = “bagusarmani” | Directed to homepage | Directed to homepage | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-002 | | | |
| Use Case | Logout | | | |
| Test Description | User logout from the system | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | User (Manager/Tester/Patient) click Logout button | User do verification , if click yes then will be directed to login page | User do verification , if click yes then directed to login page | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-003 | | | |
| Use Case | Record Tester | | | |
| Test Description | Record new Tester | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. username = “candrapertiwi” 2. password = “tiwitiwi” 3. name = “Ana Banana” 4. position = “Tester” 5. phone number = “08738329382” 6. address = “Denpasar, Bali” | Direct to Record Tester page and List of Tester table will be updated | Direct to Record Tester page and List of Tester table updated | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-004 | | | |
| Use Case | Manage Test Kit | | | |
| Test Description | User Manager Manage test kit stock based on requirement given | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. Manager click add button in the test kit table 2. test kit name = “Rapid” 3. stock = “1000” 4. description = “Test Kit from Indonesia” | Direct to Manage Test Kit page and Test Kit table will be updated | Direct to Manage Test Kit page and Test Kit table updated | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-005 | | | |
| Use Case | Record New Test | | | |
| Test Description | Checking if the system is available to check and give validation for similar username and password | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. username = “dwicandra” 2. password = “cand123” 3. name = “Dwi Candra Pertiwi” 4. phone number = “08129237347” 5. address = “Lingk. Perang Lukluk” 6. patient type = “Close Contact” 7. symptoms = “Fever, Coughing” 8. test kit type = “Rapid” | Direct to Record New Test page and the patient table will be updated | Direct to Record New Test page and the patient table updated | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-006 | | | |
| Use Case | Update Test Result | | | |
| Test Description | User Tester recording updating the data for the covid test available that has been registered before. | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. Tester click update button in right side of specific Covid-19 Test Report table 2. result = “Positive” 3. result date = “01/04/2021” 4. status = “Complete” | Direct to Update Test Result page and the Covid-19 Test Report table will be updated | Direct to Update Test Result page and the Covid-19 Test Report table updated | PASS |

* Non-Functional Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-001 | | | |
| Use Case | Login | | | |
| Test Description | User login to the system | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. username = “tiwi” 2. password = “tiwitiwi” | An error message will be displayed | An error message displayed | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-002 | | | |
| Use Case | Logout | | | |
| Test Description | User logout from the system | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | User (Manager/Tester/Patient) click Logout button | User click no on verification and system will stay on the last page the user is in | User click no on verification and system stay on the last page the user is in | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-003 | | | |
| Use Case | Record Tester | | | |
| Test Description | Record new Tester | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. username = “tiwi” 2. password = “tiwi” 3. name = “Candra Pertiwi” 4. position = “Tester” 5. phone number = “0812832923” 6. address = “Jl Raya Perang” | An error message will be displayed | An error message displayed | PASS |
|  | 1. username = “candrapertiwi1” 2. password = “tiwitiwi” 3. name = “Dwi Candra Pertiwi” 4. position = “Tester” 5. phone number = “0812232343” 6. address = “Denpasar” | An error message will be displayed | An error message displayed | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-004 | | | |
| Use Case | Manage Test Kit | | | |
| Test Description | User Manager Manage test kit stock based on requirement given | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. Manager click add or update button in the table 2. test kit name = “Rapid” 3. stock = “3232” 4. description = “Test Kit From China” | An error message will be displayed | An error message displayed | PASS |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-005 | | | |
| Use Case | Record New Test | | | |
| Test Description | Checking if the system is available to check and give validation for similar username and password | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. Tester click add button in the patient table 2. username = “dwi” 3. password = “dwi” 4. name = “ni putu” 5. phone number = “0812392382” 6. address = “Denpasar” 7. patient type = “Close Contact” 8. symptoms = “Fever” 9. test kit type = “Rapid” | An error message will be displayed | An error message displayed | PASS |
|  | 1. Tester click add button in the patient table 2. username = “candrapertiwi” 3. password = “cand123” 4. name = “ni putu” 5. phone number = “0812392382” 6. address = “Denpasar” 7. patient type = “Close Contact” 8. symptoms = “Fever” 9. test kit type = “Rapid” | An error message will be displayed | An error message displayed | PASS |

## **Test Analysis Report**

Based on tests and debug that have been performed on the system, the system works perfectly in accordance to the requirement given. In iteration 2, team members are focusing on the validation of use cases, the process of developing the validation does not meet any major issue, team members were able to complete Iteration 2 accordance to plan and test data. With the completion of iteration 2, it means that the system developed is completely finished, the system meets requirements given and passed all the test prepared by team members.

## **Conclusion/Review**

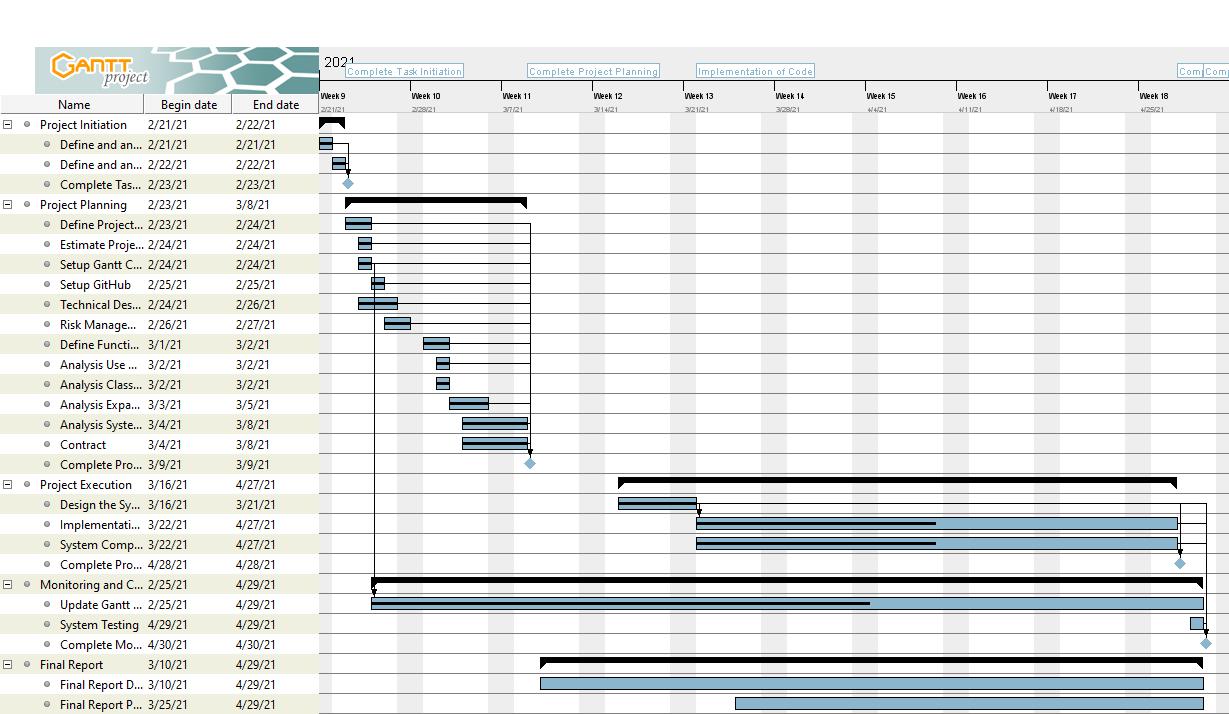
In this project, we created a website application called FastTrack Medical Report which has various features that can be used by users. FastTrack Medical Report is a website that can be used by various test centers to track the test records that have been carried out by the test center. Users of this website are test center officers and patients who will carry out the Covid-19 test. The test center officers differentiated based on their positions, namely test center managers and testers.

The criteria needed to complete this website can be seen in the use case diagram, expanded use case, sequence diagram, and the contracts that have been created and divided among each team member. In its implementation, this website has met all the criteria described at the beginning of this project planning. In terms of appearance, this website has implemented a responsive website system that allows this website to be run on several types of devices properly. In terms of usage, this website application can run all the specifications needed, such as register test centers, record testers, manage test kit stock, etc. well. In terms of security, we have also put in place several features such as validating login input, inputting username & password, etc.

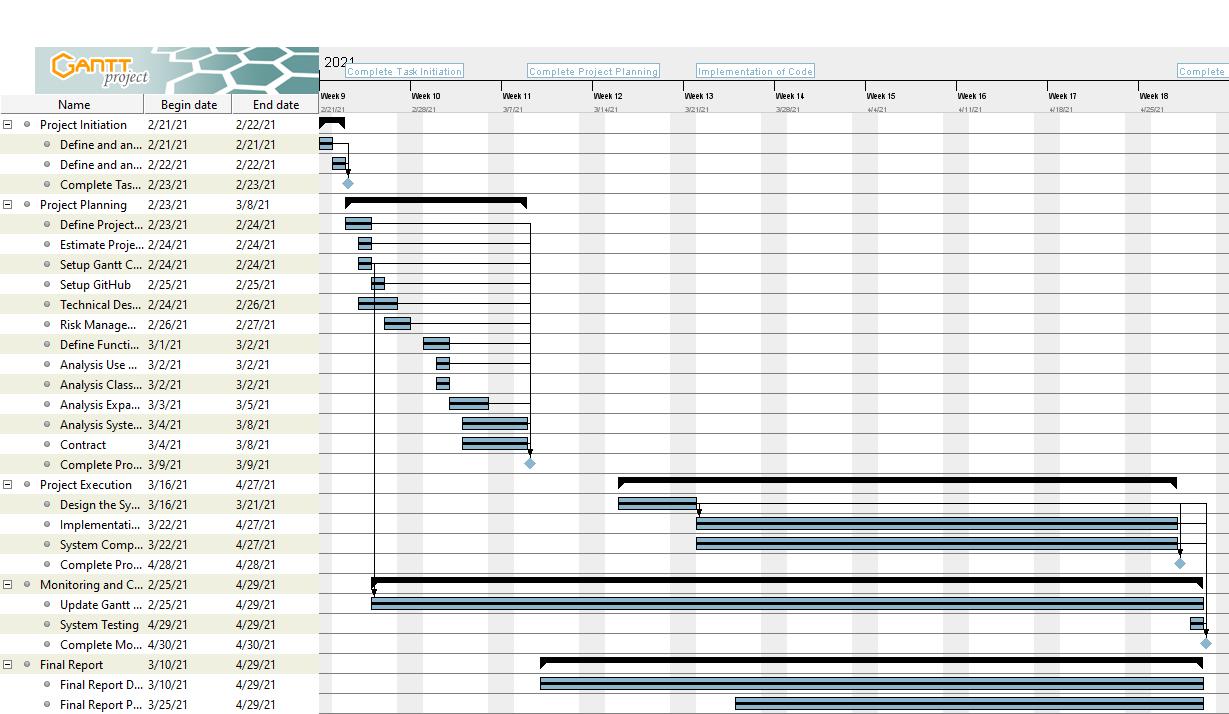
During the implementation phase of the program, a use case is being developed to make it easier for users to use this website. The use case that is being developed is the manage test kit stock. In the use case, a feature is added, namely delete. This feature can be used to delete the test kit selected by the user.

## **Updated Gantt Chart**

**Previous Timeline**

****

**Updated Timeline**



# **Conclusion/Review**

**Prepared by:** I Gede Made Armani Bagus Saputra

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

Yes, it is. After all the tasks that we already completed within this project, we have finally met all the objectives that we have defined in assignment 1. We’ve successfully created a system that can be used by various test centers to generate the test report that has been obtained. The system will also be used to view test history for the patient by using their gadget. All the test reports produced by the test center will be stored in one place and the data will be managed well through this system.

**What went wrong and what went right?**

What went right?

All the project requirements needed on this website already fulfill with all the team members. We have created and managed all the features based on user needs. The work produces from this project is a website application working well as expected and well maintained by each team member within the estimated time.

What went wrong?

Due to the limitation of time in creating this project, we have a problem with the management time of the project. Also, due to several tasks from another project in this short of time, we have struggled in making this project.

**What you would have done differently?**

From this project, I have learned many things like maintaining good communication, help each other’s, collaborating, etc. after all things that already happen within this project, I will become more active, communicative, and innovative in working with people in another project.

**Prepared by:** Ni Putu Dwi Candra Pertiwi

**Was the project a success?**

The project we have worked on and the system we developed meet the objectives defined in assignment 1, the system we developed helps test centers to generate test report easily, it helps patient to check their test report and it facilitate the government in the management of data of covid-19 test that have been obtained.

**What went right?**

Overall, the development and the planning of this project all went right, it meets the scope and time goals that have been defined before. The product itself, which is the website works in accordance to the result expected, meaning that the requirements given are all fulfilled.

**What Went Wrong?**

Because of the time limitation given for this project, team members were struggling to manage our team management and work accordance to the schedule, this happened because team members also have another different project that has to be finished adjacent to this project.

**What you would have done differently?**

There is nothing specific that I would have done differently, as a team member, I am satisfied with the work that our team have produced and the experiences I got during the creation of this project.