## **Identification of the use cases**

1. **I Gede Made Armani Bagus Saputra**

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| --- | --- |
| **Use Case** | **Name** |
| Login | I Gede Made Armani Bagus Saputra |
| Register Test Center | I Gede Made Armani Bagus Saputra |
| Record Tester | I Gede Made Armani Bagus Saputra |
| Manage Test Kit | I Gede Made Armani Bagus Saputra |
| Record New Test | I Gede Made Armani Bagus Saputra |

**Test Objectives: I Gede Made Armani Bagus Saputra**

1. User interface design is able to perform and show the page correctly for each user type, all the buttons, links, and pages should be able to direct user to the right pages.
2. System should be able to perform user login correctly.
3. Test Center Manager user should be able to register Test Center, record Tester, and manage test kit correctly.
4. Tester user should be able to record a new test correctly.

## **Test Plan: I Gede Made Armani Bagus Saputra**

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| --- | --- | --- | --- |
| Type of Testing | Strategy/Approach | Tools (if any) | Schedule |
| Unit Testing   * Login * Register Test Center * Record Tester * Manage Test Kit * Generate Test Report | 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 Result**

### **Unit Testing**

* **Login**

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| --- | --- | --- | --- | --- |
| Test ID | R-001 | | | |
| Use Case | Login | | | |
| Test Description | User login by entering username and password and will be directed to the representative homepage | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: Login user Manager | Username: armanibagus  Password: bagusarmani | User directed to the Center Officer Manager homepage | User directed to the Center Officer Manager homepage |  |
| Test Case 2: Login user Tester | Username: tiwi  Password: tiwitiwi | User directed to the Center Officer Tester homepage | User directed to the Center Officer Tester homepage |  |
| Test Case 3: Login user patient | Username: aan  Password: aan123 | User directed to the Center Officer Patient homepage | User directed to the Center Officer Patient homepage |  |
| Test Case 4:  User doesn’t fill the textbox | Username :  Password: | Pop up error “Empty Field!” | Pop up error “Empty Field!” |  |

* **Register Test Center**

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| --- | --- | --- | --- | --- |
| Test ID | R-004 | | | |
| Use Case | Register Test Center | | | |
| Test Description | User Manager register the test center after the test center is being approved and Manager account is already created before. | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | 1. test center name: Puri Bunda  2. phone number: 036168754311  3. address : JL. Gatot Subroto, Denpasar, Bali, Indonesia | Data will be submitted into database and displayed in the table on the left side of the register form | Data will be submitted into database and displayed in the table on the left side of the register form |  |
| Test Case 2: | Full Name:  Phone Number:  Address: | System will reload but data in database does not updated | System will reload but data in database does not updated |  |

* **Register Tester**

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| --- | --- | --- | --- | --- |
| Test ID | R-005 | | | |
| Use Case | Register Tester | | | |
| Test Description | User Manager register the Tester after the test center is registered with position set to Tester | | | |
| Source Code |  | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | 1. username: tiwi  2. password: tiwitiwi  3. name: Dwi Candra Pertiwi  4. position: Tester  5. phone number: 081765849329  6. address: Jl. Perang, Badung, Bali | 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 |  |
| Test Case 2: | 1. username:  2. password:  3. name:  4. position:  5. phone number:  6. address: | System will reload but data in database does not updated | System will reload but data in database does not updated |  |

* **Manage Test Kit Stock**

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| --- | --- | --- | --- | --- |
| Test ID | R-006 | | | |
| Use Case | Manage Test Kit Stock | | | |
| Test Description | User Manager Manage test kit stock by adding and updating the available stock of test kit. | | | |
| Source Code | 1. Add Test Kit 2. Update Test Kit | | | |
|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | 1. name: Sinofac  2. Stock : 9998  3. Description: Test Kit from China | 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. |  |
| Test Case 2: | 1. name: nasional  2. Stock: 999  3. Description: Test Kit from Indonesia | Data that is chosen to be updated will be updated in the database and the table. | Data that is chosen to be updated will be updated in the database and the table. |  |
| Test Case 3: | 1. name:  2. Stock:  3. Description: | Pop up error “Empty Field!” | Pop up error “Empty Field!” |  |

* **Record New Test**

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| --- | --- | --- | --- | --- |
| Test ID | R-007 | | | |
| Use Case | Record New Test | | | |
| Test Description | User Tester recording a new patient and test, also updating the patient data if the patient has already taken a test before | | | |
| Source Code | 1. Record new Test        1. Update Patient Data | | | |
|  | **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 | Data will be submitted into database and displayed on the table list of patient. | Data will be submitted into database and displayed on the table list of patient. |  |
| Test Case 2: | 1. Patient type: Quarantined  2. Symptoms: Fever  3. Test Kit Type: Sinofac | Data that is chosen to be updated will be updated in the database and the table. | Data that is chosen to be updated will be updated in the database and the table. |  |
| Test Case 3: | 1. Username:  2. Password:  3. Name:  4. Phone Number:  5. Address:  6. Patient  7. Symptoms:  8. Test Kit Type: | Pop up error “Empty Field!” | Pop up error “Empty Field!” |  |

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|  | **Test Data** | **Expected Output** | **Actual Output** | **Remark(s)** |
| Test Case 1: | User select button view details in the table of test report. | System will direct user to the details of test report. | System will direct user to the details of test report. |  |

### **Integration Testing**

* **Login**

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| --- | --- | --- | --- | --- |
| Test ID | R-002 | | | |
| Use Case | User : Login 🡪 Representative Homepage | | | |
| Test Description | Login test to make sure that user is able to login and directed to each of representative homepage. | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | Username: armanibagus  Password: bagusarmanii | Username/Password incorrect. | Username/Password incorrect. |  |
| Test Case 2: | Username: armanibagus  Password: bagusarmani | Directed to the representative homepage. | Directed to the representative homepage. |  |

* **Register Test Center**

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| --- | --- | --- | --- | --- |
| Test ID | R-004 | | | |
| Use Case | Manager : Login 🡪 Register Test Center | | | |
| Test Description | Checking if the system is available to perform the function and validate the user input in the textfield. | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. test center name: Puri Bunda  2. phone number: 036168754311  3. address : JL. Gatot Subroto, Denpasar, Bali, Indonesia | Register successfully. | Register successfully |  |
| Test Case 2: | Full Name: Puri Bunda  Phone Number:  Address: | Register unsuccessful. | Register unsuccessful. |  |

* **Record Tester**

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| --- | --- | --- | --- | --- |
| Test ID | R-005 | | | |
| Use Case | Manager : Login 🡪 Record Tester | | | |
| Test Description | Checking if the system is available to perform the function and validate the user input in the textfield. | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. username: tiwi  2. password: tiwitiwi  3. name: Dwi Candra Pertiwi  4. position: Tester  5. phone number: 081765849329  6. address: Jl. Perang, Badung, Bali | Recorded successfully. | Recorded successfully |  |
| Test Case 2: | 1. username:  2. password:  3. name:  4. position: Tester  5. phone number:  6. address: | Record unsuccessful. | Record unsuccessful. |  |

* **Manage Test Kit**

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| --- | --- | --- | --- | --- |
| Test ID | R-006 | | | |
| Use Case | Manager : Login 🡪 Manage Test Kit | | | |
| Test Description | Checking if the system is available to perform the function and validate the user input in the textfield. | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. name: Sinofac  2. Stock : 9998  3. Description: Test Kit from China | Recorded successfully. | Recorded successfully |  |
| Test Case 2: | 1. name: Sinofac  2. Stock :  3. Description: | Record unsuccessful. | Record unsuccessful. |  |

* **Record New Test**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-007 | | | |
| Use Case | Tester : Login 🡪 Record New Test | | | |
| Test Description | Checking if the system is available to perform the function and validate the user input in the textfield. | | | |
|  | 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 |  |
| Test Case 2: | 1. Username:  2. Password:  3. Name:  4. Phone Number:  5. Address:  6. Patient  7. Symptoms:  8. Test Kit Type: | Record unsuccessful. | Record unsuccessful. |  |

### **System Testing**

Functional Requirement

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| --- | --- | --- | --- | --- |
| 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” | Direct to Manager home page | Manager home page |  |
| Test Case 2: | 1. username = “tiwi” 2. password = “tiwitiwi” | Direct to Tester home page | Tester home page |  |
| Test Case 3: | 1. username = “aan” 2. password = “aan123” | Direct to Patient home page | Patient home page |  |

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| --- | --- | --- | --- | --- |
| Test ID | R-004 | | | |
| Use Case | Register Test Center | | | |
| Test Description | Register the Test Center | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. test center name = “Puri Bunda” 2. phone number = “036168754311” 3. address = “JL. Gatot Subroto, Denpasar, Bali, Indonesia” | Direct to Register Test Center page, register form will be disappear, and test center data will be displayed in the table | Direct to Register Test Center page, register form disappear, and test center data displayed in the table |  |

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| --- | --- | --- | --- | --- |
| Test ID | R-005 | | | |
| 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 = “tiwitiwi” 3. name = “Dwi Candra Pertiwi” 4. position = “Tester” 5. phone number = “081765849329” 6. address = “Jl. Perang, Badung, 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 |  |

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| --- | --- | --- | --- | --- |
| Test ID | R-006 | | | |
| Use Case | Manage Test Kit | | | |
| Test Description | Add new Test Kit and edit an existing Test Kit | | | |
|  | 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 = “100” 4. description = “Covid-19 test kit using Rapid test kit” | Direct to Manage Test Kit page and Test Kit table will be updated | Direct to Manage Test Kit page and Test Kit table updated |  |
| Test Case 2: | 1. Manager click update button in right side of the specific test kit table 2. test kit name = “Rapid” 3. stock = “200”   description = “Covid-19 test kit using Rapid test kit” | Direct to Manage Test Kit page and Test Kit details will be updated | Direct to Manage Test Kit page and Test Kit details updated |  |

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| --- | --- | --- | --- | --- |
| Test ID | R-007 | | | |
| Use Case | Record New Test | | | |
| Test Description | Register new Patient, update Patient details, the test automatically created, the test date set to current date, and the status is set to Pending after the Tester successfully register or update Patient details | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. Tester click add button in the patient table 2. username = “aan” 3. password = “aan123” 4. name = “Aan Nurjana” 5. phone number = “089765345231” 6. address = “Jl. Kenanga, Denpasar, Bali” 7. patient type = “Infected” 8. symptoms = “fever, headache, flu” 9. 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 |  |
| Test Case 2: | 1. Tester click update button in right side of specific patient table 2. patient type = “Quarantined” 3. symptoms = “flu and fever” 4. test kit type = “Rapid” | Direct to Record New Test page and the patient details will be updated | Direct to Record New Test page and the patient details updated |  |

**Non-Functional Requirement**

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| --- | --- | --- | --- | --- |
| 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 = “” 2. password = “” | An error message will be displayed | An error message displayed |  |

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| --- | --- | --- | --- | --- |
| Test ID | R-004 | | | |
| Use Case | Register Test Center | | | |
| Test Description | Register the Test Center | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. test center name = “” 2. phone number = “” 3. address = “” | An error message will be displayed | An error message displayed |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-005 | | | |
| Use Case | Record Tester | | | |
| Test Description | Record new Tester | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. username = “” 2. password = “” 3. name = “” 4. position = “” 5. phone number = “” 6. address = “” | An error message will be displayed | An error message displayed |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-006 | | | |
| Use Case | Manage Test Kit | | | |
| Test Description | Add new Test Kit and edit an existing Test Kit | | | |
|  | 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 = “” 3. stock = “” 4. description = “” | An error message will be displayed | An error message displayed |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | R-007 | | | |
| Use Case | Record New Test | | | |
| Test Description | Register new Patient, update Patient details, the test automatically created, the test date set to current date, and the status is set to Pending after the Tester successfully register or update Patient details | | | |
|  | Test Data | Expected Output | Actual Output | Remark(s) |
| Test Case 1: | 1. Tester click add button in the patient table 2. username = “” 3. password = “” 4. name = “” 5. phone number = “” 6. address = “” 7. patient type = “” 8. symptoms = “” 9. test kit type = “” | An error message will be displayed | An error message displayed |  |
| Test Case 2: | 1. Tester click update button in right side of specific patient table 2. patient type = “” 3. symptoms = “” 4. test kit type = “” | An error message will be displayed | An error message displayed |  |