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# Software Testing Life Cycle of "পল্লীহাট"

#### Introduction

This is a Software Testing Life Cycle (STLC) for the "পল্লীহাট". Software Testing Life Cycle refers to a testing process which has specific steps to be executed in a definite sequence to ensure that the quality goals have been met. In the STLC process, each activity is carried out in a planned and systematic way. Each phase has different goals and deliverables.

There are 6 major phases of STLC –

### Phases:

- ➤ Requirement Analysis: When the SRD is ready and shared with the stakeholders, the testing team starts high—level analysis concerning the AUT (Application under Test).
- > Test Planning: Test Team plans the strategy and approach.
- > Test Case Development: Develop the test cases based on scope and criteria.
- ➤ Test Environment Setup: When integrated environment is ready to validate the product.
- ➤ Test Execution: Real-time validation of product and finding bugs. Test Closure Once testing is completed, matrix, reports, results are documented.

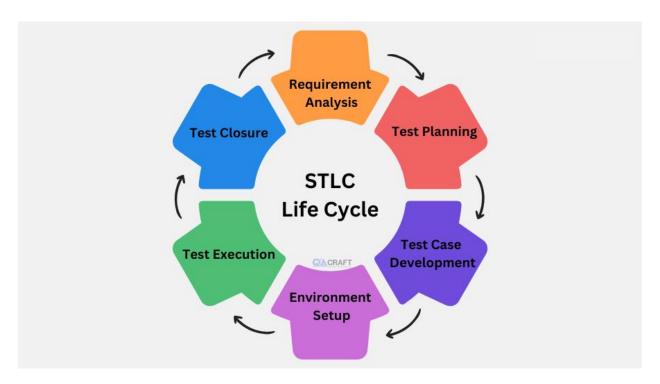


Figure: Software Testing life cycle

We build complete STLC for our project. Our Project is "পল্লীয়ট".The project link is: <a href="https://github.com/IIT-NSTU/Pollihaat.git">https://github.com/IIT-NSTU/Pollihaat.git</a>

### Phase -1: Requirements Analysis

The purpose is to describe all the requirements for the "পল্লীহাট". The following are some of the stakeholders:

- > System Owner
- > Entrepreneurs
- **Customer**
- **Employee**

The team members of "প্ৰাইটি" uses this document as the primary means to communicate confirmed requirements to the development team. The development team expects many face-to-face conversations that will undoubtedly be about requirements and ideas for requirements. However only the requirements that appear in this document or a future revision, will be used to define the scope of the system.

- **\*** Functional requirements
- **\*** Non-functional requirements.

Non-functional requirements can be used to improve the functioning of the computer system, but not the management of our site as a whole.

Functional requirements, on the other hand, are requirements directly related to our website. The primary areas of concern are performance, security and user interface.

### **Functional Requirements**

| FR ID | Description                                       | Priority |
|-------|---|----------|
| FR 1  | User registration and login to registered account | High     |
| FR 2  | System owner can control members                  | High     |
| FR 3  | Unregister members                                | Medium   |
| FR 4  | Manage categories and products                    | High     |
| FR 5  | System owner can manage order                     | Medium   |
| FR 6  | Customer can provide rating and review            | High     |

| FR 7  | Customer can manage their shopping cart      | High   |
|-------|--|--------|
| FR 8  | Customer can update own profile              | Low    |
| FR 9  | Add homemade cottages for sale               | High   |
| FR 10 | Customer can search for desired product      | Medium |
| FR 11 | System owner can manage customer's feedback. | Low    |

# Non-Functional Requirements

| NFR - 01    | Security  |
|-------------|---|
| Description | Securing information is much more important for a system to get users dependability.  Password: Any user who uses the system must have a password.  Modification: Any modification (insert, delete, update) for the Database shall be synchronized and done only by the administrator in the ward.  System owners' right: System owner must have the right to view, modify or delete any information. |
| Priority    | High  |

| NFR - 02    | Performance   |
|-------------|---|
| Description | Any search result will show up within 1 second and images of the product will load within 3 seconds if the network speed is good. |
| Priority    | Medium  |

| NFR - 03    | Scalability   |
|-------------|---|
| Description | System must be able to handle unlimited orders at a time and handle all the functionality within short times. |
| Priority    | High  |

| NFR - 04    | Maintainability   |
|-------------|---|
| Description | It is very important to update product category, entrepreneur information as entrepreneur will sell products by using our system. |
| Priority    | Low   |

| NFR - 05    | Extensibility   |
|-------------|---|
| Description | After release this system, It might be extensible for new feature .Our system will allow developer to customize an existing installation of an application at runtime without recompiling or changing the original source code. |
| Priority    | High  |

| NFR - 06    | Text color and font   |
|-------------|---|
| Description | All texts and descriptions will be at a good font size so that users can understand what is important and mandatory input fields will be kept red colored until user put correct information. |
| Priority    | High  |

| NFR - 07    | Faster searching products and load images quickly   |
|-------------|---|
| Description | And any search result will show up within 1 second and images of the product will load within 3 seconds if the network speed is good. |
| Priority    | Medium  |

| NFR - 08    | Stakeholders have to provide specific sized picture for the products  |
|-------------|---|
| Description | Entrepreneurs will upload product details such as product name, product quantity, price, image and product description of the new product. Images of the products need to be within 3 MB. |
| Priority    | High  |

### Phase -2: Test Planning

### 2.2 Introduction

A test plan is a comprehensive document that lists the test objectives, tactics, timeline, budget, and resources needed to complete the project. The main purpose of the test plan for the "পল্লীহাট" is to discuss the testing details of the use cases of the "পল্লীহাট". The software project test plan also describes the objective, scope and approach of the software testing effort for this project. The test plan for the "পল্লীহাট" also indicates the personnel responsible for each task and also specifies the risks associated with the test plan.

### 2.3 Objectives

The main objectives of the test plan for the "পল্লীহাট" are as follows:

- Define the scope of what will be tested for "পল্লীহাট".
- Organize the activities and timescales.
- Estimate the people and other resources required.
- Specify the approach taken to testing for "পল্লীহাট"
- Define the deliverables expected.
- Specify how the testing results will be evaluated.
- Estimate the risks to testing plan and how to mitigate them.
- Use as a basis for agreement by key stakeholders that the plan is acceptable.

#### 2.4 Test Items

This section of the test plan lists all the items of the "পল্লীহাট" project that will be tested.

- > All Functional Requirements
- > All Non-Functional Requirements

### 2.5. Approach

This section of the test plan describes the overall approach for testing the "পল্লীহাট" project. The approach followed for testing this system ensures that the major features of the project are adequately tested testing would be carried out on the "পল্লীহাট" system while logging into the system as a customer or a normal user of the system.

#### 2.5.1 Unit Testing

The Unit Testing is a test that tests each single module of the software to check for errors. This is mainly done to discover errors in the code of the "পল্লীহাট" system. The main goal of the unit testing would be to isolate each part of the program and to check the correctness of the code.

In the case of the "পল্লীহাট", all the web forms and the admin portion will be tested. There are many

benefits for this unit testing:

- > The unit testing facilitates change in the code.
- It allows testing to be done in a bottom up fashion.

Unit testing by its very nature focuses on a unit of code. Hence it can't catch integration errors or broad system level errors.

### 2.5.2 Integration Testing

In Integration Testing, the individual software modules are combined and tested as a whole unit. The integration testing generally follows unit testing where each module is tested as a separate unit. The main purpose of the integration testing is to test the functional and performance requirements on the major items of the project. All the modules of the project developed individually would be combined together and tested as a whole system in the integration testing.

### 2.5.3 Regression Testing

The Regression Testing is generally done whenever modifications are made to the source code of a project. The Regression Testing can also be defined as the process of testing changes made to the computer program and also makes sure that the older programming still works with the new changes. So, before any new version of a software product is released, the old test cases for the project will be run against the software with the changes made, to make sure that the old functionalities of the project still work.

#### 2.5.4 Acceptance Testing

This testing is generally performed when the project is nearing its end. This test mainly qualifies the project and decides if it will be accepted by the users of the system. The users or the customers of the project are responsible for the test.

### 2.5.5 System Testing

The system testing is mainly done on the whole integrated system to make sure that the project that has been developed meets all the requirements. The test cases for the system testing will be the combination of unit and integration tests.

### 2.5.6 Test strategy

Testing strategy is the planning of the whole testing process into a well-planned series of steps. In other words, strategy provides a roadmap that includes very specific activities that must be performed by the test team in order to achieve a specific goal

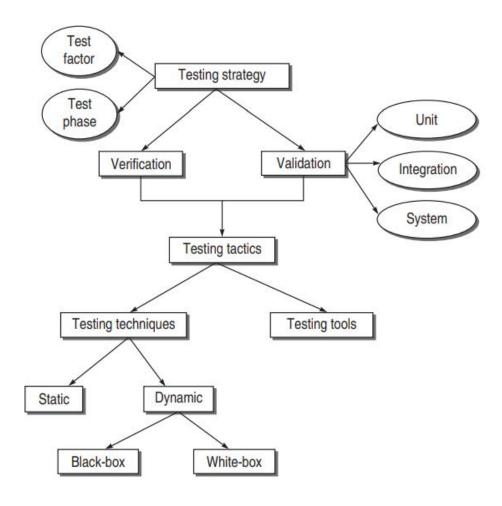


Figure: Testing Strategy

## 2.6 Roles and responsibilities

| Roles                                       | Responsibilities  | Tester             |
|---|---|--------------------|
| Test Manager                                | Manage the whole project, acquire appropriate resources and control team members. | Sanzida<br>Sultana |
| Test Analyst                                | Identify test conditions and features.  | And<br>Sultana     |
| Software<br>Development<br>Engineer in Test | Develop tools for testing.  | Marjan             |
| Software Test<br>Engineer                   | Test the overall system using appropriate testing approach and instruments        |                    |

| Test Architect    | Design various suitable testing models   |  |
|-------------------|--|--|
| SQA team          | Check to confirm whether the testing process is meeting specified requirements |  |
| Developer in Test | Implement the test cases, test program, test suite etc.                        |  |

# **2**.7 Testing Tool

| No | Resources | Description   |
|----|-----------|---|
| 1  | Server    | Need a Database server which install MySQL server Web server which install Apache Server                        |
| 2  | Test tool | Develop a Test tool which can auto generate the test result to the predefined form and automated test execution |
| 3  | Network   | Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s  |
| 4  | Computer  | At least 4 computer run Windows 10, Ram 4GB, CPU 3.4GHZ   |

### 2.8 Test Deliverables

Test deliverables are provided as below❖ Test plans document.❖ Test cases documents

# 2.9 Identifying the testing techniques and testing types

| <b>Testing Techniques</b>   | <b>Testing Type</b>               | Perform on                    |
|-----------------------------|-----------------------------------|-------------------------------|
| Dynamic Testing (Black      | Boundary Value Analysis           | Functional requirements, code |
| Box)                        | Equivalence Class<br>Partitioning |                               |
|                             | Cause-effect Graph                |                               |
|                             | Logic Coverage Criteria           | Structure, design, code       |
| Dynamic Testing (White Box) | Basic Path Testing                |                               |
|                             | Control Flow Graph                |                               |
|                             | Graph Matrix                      |                               |

| Static Testing     | Inspection          | Whole system without execute code    |
|--------------------|---------------------|--------------------------------------|
|                    | Unit Testing        | Code Module                          |
|                    | Integration Testing | Merged code                          |
|                    | Function Testing    | Functional design                    |
| Validation Testing | System Testing      | SRS                                  |
|                    | Installing Testing  | Adaptability with operating machine  |
|                    | Acceptance Testing  | Conformance to gathered requirements |

Phase -3: Test Case Development Functional Test Cases

| Test<br>Case ID | Test case   | Test Data  | Verification |
|-----------------|---|--|--------------|
| TC-01           | Check customer<br>"সাইন আপ<br>করুন"<br>button with valid<br>information.        | Name: Sultana Marjan Email: marjanmitu12@gmail.com Phone Number:01712397955 Password:123ui6gh Confirm password:123ui6gh        | Valid        |
| TC-02           | Check customer<br>"সাইন আপ<br>করুন"<br>button with<br>invalid email<br>address. | Name: Sanzida Sultana<br>Email: sanzida@gmail.com<br>Phone Number:01712397955<br>Password:1234567<br>Confirm password:123ui6gh | Invalid      |
| TC-03           | Check customer register with invalid password length.                           | Name: Sanzida Sultana<br>Email: Sanzida@gmail.com<br>Phone Number:01712397955<br>Password:12<br>Confirm password:12            | Invalid      |
| TC-04           | Check if customer registered already.   | Name: Sultana Marjan Email: marjanmitu12@gmail.com Phone Number:01712397955 Password:123ui6gh Confirm password:123ui6gh        | Invalid      |
| TC-05           | Check customer login with valid email and password.                             | Email: marjanmitu12@gmail.com<br>Password:123ui6gh   | Valid        |
| TC-06           | Check customer login with invalid email.  | Email: marjanmitu@gmail.com<br>Password:123ui6gh   | Invalid      |
| TC-07           | Check customer login with invalid password.                                     | Email: marjanmitu@gmail.com<br>Password:123  | Invalid      |
| TC-08           | Test add to cart with product   | N/A  | Valid        |
| TC-09           | Add to cart which is already exists in the cart.                                | N/A  | Invalid      |

| TC-10  | Add to cart                 | N/A                                    | Invalid   |
|--------|-----------------------------|--|-----------|
| 10-10  | before logging              | IV/A                                   | ilivaliu  |
|        | into the                    |  |           |
|        | system.                     |  |           |
| TC-11  | Check the                   | N/A                                    | Valid     |
| 10-11  | "remove products            | IN/A                                   | v and     |
|        | from the cart"              |  |           |
|        |                             |  |           |
| TC-12  | procedure. View cart list.  | N/A                                    | Valid     |
| TC-12  |                             | Quantity:0                             | Invalid   |
| 10-13  | Update cart with            | Quantity.0                             | Ilivaliu  |
|        | invalid products            |  |           |
| TC-14  | quantity.                   | Overtity 5                             | Valid     |
| 1C-14  | Update cart with            | Quantity:5                             | vand      |
|        | valid products              |  |           |
| TC 15  | quantity.                   | 01410000000                            | T11. 1    |
| TC-15  | Cart update with            | Quantity:10000000                      | Invalid   |
|        | more product                |  |           |
|        | quantity than               |  |           |
|        | available in                |  |           |
| TPC 16 | system.                     | DT/A                                   | X7 1' 1   |
| TC-16  | Delete individual           | N/A                                    | Valid     |
| TO 15  | item from cart.             | DT/A                                   | 37 1' 1   |
| TC-17  | Delete all items            | N/A                                    | Valid     |
| TFC 10 | from cart.                  |  | X7 1' 1   |
| TC-18  | Test the                    | rating: চমৎকার                         | Valid     |
|        | procedure of                |  |           |
|        | providing rating            |  |           |
| TC-19  | of customer side            |  | 37-1: 1   |
| 10-19  | Test procedure of           | feedback: গলার হারটি অসাধারণ           | Valid     |
|        | providing                   |  |           |
|        | feedback of                 |  |           |
| TC 20  | customer side.              | NT/A                                   | Tarrell J |
| TC-20  | Test the                    | N/A                                    | Invalid   |
|        | procedure of                |  |           |
|        | proving feedback            |  |           |
| TC-21  | before ordering.            | Name Can-ida                           | Valid     |
| 10-21  | Test the                    | Name: Sanzida                          | Valid     |
|        | procedure of contact to the | Email: sanzida@gmail.com               |           |
|        |                             | Mobile: 01882428980                    |           |
|        | system owner.               | message: "Pallihat products are always |           |
| TC 22  | Took wwo 1                  | reliable for us, thanks Pallihat."     | Mal: d    |
| TC-22  | Test procedure              | Product Name: "কুশন"                   | Valid     |
|        | for searching               |  |           |
|        | products that do            |  |           |
|        | not exist in the            |  |           |
|        | system.                     |  |           |

| TC-23 | Test procedure for searching for products that do not exist in the system.        | Product Name: "chair"   | Valid   |
|-------|---|---|---------|
| TC-24 | View all category that exist into the system.                                     | N/A   | Valid   |
| TC-25 | View all placed orders of a customer.   | N/A   | Valid   |
| TC-26 | View all products that exist into the system.                                     | N/A   | Valid   |
| TC-27 | View products of a specific category.   | N/A   | Valid   |
| TC-28 | Click on<br>notification icon<br>for seeing the<br>condition of order<br>product. | N/A   | Valid   |
| TC-29 | Check<br>notifications for<br>customers who<br>have not logged<br>in.             | N/A   | Invalid |
| TC-30 | Test "forget password" module for registered customer.                            | Email: sanzida822@gmail.com<br>pin:12jfdjfd   | Valid   |
| TC-31 | Check admin login with valid data.  | Name: Nitu<br>Password:123  | Valid   |
| TC-32 | Check admin login with invalid username or password.                              | Name: Nitu<br>Password:er445  | Invalid |
| TC-33 | Check the procedure of adding entrepreneurs in our system.                        | Name: অনুপা<br>Email: <u>anupa@gmail.com</u><br>Mobile No:01712324980<br>Password:123 | Valid   |
| TC-34 | Check entrepreneur add  | Name: arman Email: arman@gmail.com  | Invalid |

|       | invalid password length.  | Mobile No:01712324980<br>Password:123   |         |
|-------|---|---|---------|
| TC-35 | Check<br>entrepreneur edit<br>procedure from<br>admin side.                         | Name: Nokshi<br>Email: noksi@gmail.com<br>Mobile No:01812324980<br>Password:123     | Valid   |
| TC-36 | Check entrepreneur add procedure with invalid email address which does not exists.  | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:01812324980<br>Password:1238jn8hh  | Invalid |
| TC-37 | Check entrepreneur add procedure with invalid mobile number which does not exists.  | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:010012324980<br>Password:1238jn8hh | Invalid |
| TC-38 | Add entrepreneur with duplicate email address which already exists into the system. | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:010012324980<br>Password:1238jn8hh | Invalid |
| TC-39 | Add entrepreneur with duplicate mobile number which already exists into the system. | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:01712324980<br>Password:1238jn8hh  | Invalid |
| TC-40 | Add an entrepreneur with duplicate username which already exists into the system.   | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:01712324980<br>Password:1238jn8hh  | Invalid |
| TC-41 | Check delete<br>entrepreneur<br>procedure.  | N/A   | Valid   |
| TC-42 | Update<br>entrepreneur with<br>duplicate<br>username which                          | Name: Nokshi<br>Email: noksi@gmail.com<br>Mobile No:01812324980<br>Password:123     | Invalid |

|       | already exists into  |  |         |
|-------|--|--|---------|
|       | the system.  |  |         |
| TC-43 | Update entrepreneur with duplicate email which already exists into the system.                             | Name: Nokshi<br>Email:<br>noksi@gmail.com<br>Mobile No:01812324980<br>Password:123 | Invalid |
| TC-44 | Update entrepreneur account with valid information.  | Name: Bithy<br>Email: bithy@gmail.com<br>Mobile No:01612324980<br>Password:1267    | Valid   |
| TC-45 | Update entrepreneur with duplicate mobile number which already exists into the system.                     | Name: Rintu<br>Email: rintu@gmail.com<br>Mobile No:01812324980<br>Password:123     | Invalid |
| TC-46 | Check the procedure of adding categories in our system.  | Category name: মৃৎশিল্প<br>Image:mritshilpo.jpg                                    | Valid   |
| TC-47 | Check the procedure of adding categories with duplicate category name which already exists in our system.  | Category name: মৃৎশিল্প<br>Image: mritshilpo.jpg                                   | Invalid |
| TC-48 | Add category without uploading image in the system.  | Category name: মৃৎশিল্প  | Invalid |
| TC-49 | Check the procedure of adding categories with duplicate category image which already exists in our system. | Category name: মৃৎশিল্প<br>Image: mritshilpo.jpg                                   | Invalid |
| TC-50 | Check the procedure of   | Category name: শাড়ি সমগ্র<br>Image: sharee.jpg                                    | Valid   |

|       | updating category  |  |         |
|-------|--|--|---------|
| TC-51 | from admin side.  Check the procedure of updating category with duplicate category name from admin side. | Category name: শাড়ি সমগ্র<br>Image: sharee.jpg  | Invalid |
| TC-52 | Check the procedure of updating category with a duplicate category image from admin side.                | Category name: হাতে তৈরি গহনা<br>Image: sharee.jpg   | Invalid |
| TC-53 | Check the procedure of deleting a category.  | N/A  | Valid   |
| TC-54 | Test the procedure of updating a product information.  | Name: মাটির ব্যাংক<br>Type: কে.জি.<br>Category name: মৃৎশিল্প<br>Quantity:122<br>Description: মাটির তৈরি পণ্য যেনো<br>প্রকৃতির নিদর্শন | Valid   |
| TC-55 | Test the procedure of deleting product data.   | N/A  | Valid   |
| TC-56 | Check the procedure of viewing customer details.   | N/A  | Valid   |
| TC-57 | Check the procedure of viewing the message which was sent by the customer.                               | N/A  | Valid   |
| TC-58 | Check the procedure of deleting messages from the admin side.  | N/A  | Valid   |

| TC-59  | Check the          | N/A            | Valid   |
|--------|--------------------|----------------|---------|
| 10-39  |                    | 1N/ <i>F</i> A | vanu    |
|        | procedure of       |                |         |
|        | viewing the        |                |         |
|        | feedback which     |                |         |
|        | was sent by the    |                |         |
|        | customer.          |                |         |
| TC-60  | Check the          | N/A            | Valid   |
|        | procedure of       |                |         |
|        | deleting feedback  |                |         |
|        | from the admin     |                |         |
|        | side.              |                |         |
| TC-61  | Check the          | N/A            | Valid   |
| 1001   | procedure of       |                | Valid   |
|        | viewing all orders |                |         |
|        | which were         |                |         |
|        |                    |                |         |
|        | placed by the      |                |         |
| TIC (2 | customer.          | NT/A           | 37 1' 1 |
| TC-62  | Check the          | N/A            | Valid   |
|        | procedure of       |                |         |
|        | viewing all orders |                |         |
|        | which were         |                |         |
|        | placed by the      |                |         |
|        | customer but not   |                |         |
|        | delivered to the   |                |         |
|        | customer.          |                |         |
| TC-63  | Test the           | N/A            | Valid   |
|        | procedure of       |                |         |
|        | sending email      |                |         |
|        | when a product is  |                |         |
|        | received from the  |                |         |
|        | entrepreneur.      |                |         |
| TC-64  | Check the          | N/A            | Valid   |
|        | procedure of       |                |         |
|        | generating a pdf   |                |         |
|        | of an order.       |                |         |
| TC-65  | Test the           | N/A            | Valid   |
| 10.05  | procedure of       |                | Y uniu  |
|        | sending email      |                |         |
|        | when a product is  |                |         |
|        | delivered to a     |                |         |
|        |                    |                |         |
| TO     | customer.          | NT/A           | Valid   |
| TC-66  | Check the          | N/A            | Valid   |
|        | procedure of       |                |         |
|        | deleting orders    |                |         |
|        | from the admin     |                |         |
|        | side.              |                |         |

| TC-67 | Check the "লগ<br>আউট" option<br>from customer<br>side.                                     | N/A   | Valid   |
|-------|--|---|---------|
| TC-68 | Check the<br>"ক্যাটাগরি"<br>option from<br>customer side.                                  | N/A   | Valid   |
| TC-69 | Check the "লগ<br>আউট" option<br>from admin side.   | N/A   | Valid   |
| TC-70 | Check entrepreneur login with valid name and password.                                     | Name: মিতু<br>Password:123  | Valid   |
| TC-71 | Check entrepreneur login with invalid name and password.                                   | Name: Taha<br>Password:122334   | Invalid |
| TC-72 | Check the products add procedure by the entrepreneur.                                      | Name: সন্দেশ<br>Type: কৈজি<br>Category: বাঙালি ভোজ<br>Unit price:২৫০<br>Quantity: ২৫কেজি<br>Image: sondesh.jpg  | Valid   |
| TC-73 | Check the products add procedure by the entrepreneur which already exists into the system. | Name: সন্দেশ<br>Type: কেজি<br>Category: বাঙালি ভোজ<br>Unit price: ২৫<br>Quantity: ২৫ কেজি<br>Image: sondesh.jpg | Invalid |
| TC-74 | Add product without uploading image in the system from entrepreneur side.                  | Name: সন্দেশ<br>Type: কৈজি<br>Category: বাঙালি ভোজ<br>Unit price:২৫০<br>Quantity: ২৫কেজি<br>Image:              | Invalid |

| TC-75 | Add product without selecting the category in the system from the entrepreneur side.     | Name: সন্দেশ<br>Type: কৈজি<br>Category:<br>Unit price:২৫০<br>Quantity:২৫কেজি<br>Image: sondesh.jpg      | Invalid |
|-------|--|---|---------|
| TC-76 | Add product without entering the products quantity in the system from entrepreneur side. | Name: সন্দেশ<br>Type: কেজি<br>Category: বাঙালি ভোজ<br>Unit price:২৫০<br>Quantity:<br>Image: sondesh.jpg | Invalid |
| TC-77 | Check the order by the entrepreneur.   | N/A   | Valid   |
| TC-78 | Check the feedback by the entrepreneur about the delivered products.                     | N/A   | Valid   |
| TC-79 | Add a product with duplicate image in the system from the entrepreneur side.             | Name: সন্দেশ<br>Type: কেজি<br>Category:<br>Unit price:২৫০<br>Quantity:২৫কেজি<br>Image: sondesh.jpg      | Invalid |

#### Non-Functional Test Cases:

| Test    | Test Case   | Test Data                           | Verification |
|---------|---|-------------------------------------|--------------|
| Case ID |   |                                     |              |
| TC-80   | Review product with image.  | N/A                                 | Invalid      |
| TC-81   | Review product without image  | N/A                                 | Valid        |
| TC-82   | Tracking order location   | N/A                                 | Invalid      |
| TC-83   | Check if user login into the system within minimum time                     | Email: nitu@gmail.com Password:1232 | Valid        |
| TC-84   | Check a user should be able to log in from different devices simultaneously | N/A                                 | Valid        |
| TC-85   | Check the application should not cause device heating or battery draining   | N/A                                 | Valid        |

### Phase -4: Test Environment Setup

Test Environment consists of elements that support test execution with software, hardware and network configured. Test environment configuration must mimic the production environment in order to uncover any environment/configuration related issues.

### 4.1. Hardware Requirement -

- ❖ Min 500 GB Hard Disk
- ❖ Min 3 RAM
- Dual-Core Processor
- Monitor

### 4.2. Software Requirement -:

Microsoft windows 10 installed

### 4.3. Network Requirement -:

❖ Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s

# Phase -5: Test Execution

## 5.1 Functional requirement

| ID   | Test<br>Scenario   | Test Steps   | Test Data   | Expected<br>Results  | Actual<br>Results | Pass<br>/<br>Fail |
|------|--|--|---|--|-------------------|-------------------|
| TC01 | Check<br>customer<br>'সাইন আপ<br>করুন''button<br>with valid<br>information.    | 1. Go to site http://localhost/pollihaat/registe r.php 2. Click "সাইন আপ করুন" button. 3.Entervalid name, email, phone and password 4. Click "রেজিস্টার" button    | Name: Sultana Marjan Email: marjanmitu12@gmail.com Phone Number: 01712397955 Password:123ui6gh Confirm password: 123ui6gh                         | Successfuly signed up  | As<br>Expected    | Pass              |
| TC02 | Check<br>customer<br>"সাইন আপ<br>করুন"button<br>with invalid<br>email address. | 1. Go to site http://localhost/pollihaat/egi ster.php 2. Click "সাইন আপ করুন" button 3. Enter invalid name, email, phone and password 4. Click "রেজিস্টার" button  | Name: Sanzida Sultana<br>Email:<br>sanzida@gmail.com<br>Phone Number:<br>01712397955<br>Password:1234567<br>Confirm password:<br>123ui6gh         | Customer<br>can not<br>Register<br>successfully.                 | As<br>Expected    | Pass              |
| TC03 | Check<br>customer<br>register with<br>invalid<br>password<br>length.           | 1. Go to site http://localhost/pollihaat/regi ster.php 2. Click "সাইন আপ করুন" button 3. Enter invalid name, email, phone and password 4. Click "রেজিস্টার" button | Name: Sanzida Sultana Email: Sanzida@gmail.com Phone Number: 01712397955 Password:12 Confirm password:12  | Customer<br>should not<br>able to register<br>into the<br>system | As not expected   | Fail              |
| TC04 | Check if<br>customer<br>registered<br>already                                  | 1. Go to site http://localhost/pollihaat/regi ster.php 2. Click "সাইন আপ করুন" button 3. Enter invalid name, email, phone and password 4. Click "রেজিস্টার" button | Name: Sultana Marjan<br>Email:<br>marjanmitu12@gmail.com<br>Phone Number:<br>01712397955<br>Password:<br>123ui6gh<br>Confirm<br>password:123ui6gh | Can not register successfully                                    | As<br>Expected    | Pass              |

| TC05 | Check<br>customer<br>login with<br>valid email<br>and password. | 1. Go to site<br>http://localhost/pollihaat/login.p<br>hp<br>2. Click "লগ ইন" icon<br>3.Enter valid email and<br>password<br>4.Click "লগ ইন" button  | Email:<br>marjanmitu12@gmail.com<br>Password:123ui6gh | Customer can login into system.                        | As<br>Expected  | Pass |
|------|---|--|---|--|-----------------|------|
| TC06 | Check<br>customer<br>login with<br>invalid email                | 1. Go to site<br>http://localhost/pollihaat/login.p<br>hp<br>2. Click "লগ ইন" icon<br>3.Enter valid email and<br>password<br>4.Click "লগ ইন" button  | Email:<br>marjanmitu@gmail.com<br>Password:123ui6gh   | Customer<br>cannot login<br>into<br>system.            | As<br>Expected  | Pass |
| TC07 | Check<br>customer<br>login with<br>invalid<br>password          | 1. Go to site<br>http://localhost/pollihaat/login.p<br>hp<br>2. Click "লগ ইন" icon<br>3.Enter valid email and<br>password<br>4.Click "লগ ইন" button  | Email:<br>marjanmitu@gmail.com<br>Password:123        | Customer can<br>not login into<br>system.              | As<br>Expected  | Pass |
| TC08 | Test add to cart with product.                                  | 1. Go to site<br>http://localhost/pollihaat/cart.ph<br>p<br>2. Click "লগ ইন" icon.<br>3.Click "কার্টে যোগ করুন"<br>option.<br>4.Click the cart icon. | N/A   | Products added to the customer cart.                   | As<br>Expected  | Pass |
| TC09 | Add to cart<br>which is<br>already exists<br>in the cart.       | 1. Go to site<br>http://localhost/pollihaat/cart.ph<br>p<br>2. Click "লগ ইন" icon.<br>3.Click "কার্টে যোগ করুন"<br>option<br>4.Click the cart icon.  | N/A   | Products<br>doesnot added<br>to the<br>customer cart.  | As<br>Expected  | Pass |
| TC10 | Add to cart<br>before<br>logging<br>Into the<br>system.         | 1. Go to site<br>http://localhost/pollihaat/cart.p<br>hp<br>3.Click "কার্টে যোগ করুন"<br>option<br>4.Click the cart icon.                            | N/A   | Products does<br>not added to<br>the customer<br>cart. | As not expected | Fail |

| TC11 | Check the "remove products from the cart" procedure                             | 1. Go to site http://localhost/pollihaat/regi ster.php 2. Login as a customer 3. Click cart icon 4. Click the "মুছুন" option       | N/A             | Product<br>successfully<br>remove from<br>the cart  | As<br>expected | Pass |
|------|---|--|-----------------|---|----------------|------|
| TC12 | View cart list  | 1. Go to site<br>http://localhost/pollihaat/cart.p<br>hp2.Login into the system<br>3.Click the cart icon                           | N/A             | Customer can<br>able to see all<br>products that<br>were added<br>into the cart.                            | As<br>Expected | Pass |
| TC13 | Update cart<br>with invalid<br>products<br>quantity                             | 1. Go to site<br>http://localhost/pollihaat/cart.p<br>hp2.Login into the system<br>3.Click the cart icon<br>4.Click update button  | Quantity:0      | Cart update<br>does not work<br>and shows<br>"value must<br>be greater<br>than 0"                           | As<br>Expected | Pass |
| TC14 | Update cart<br>with valid<br>products<br>quantity                               | 1. Go to site<br>http://localhost/pollihaat/cart.p<br>hp 2.Login into the system<br>3.Click the cart icon<br>4.Click update button | Quantity:5      | Cart updated successfully.  | As<br>Expected | Pass |
| TC15 | Cart update<br>with more<br>product<br>quantity than<br>available in<br>system. | 1. Go to site<br>http://localhost/pollihaat/cart.p<br>hp2.Login into the system<br>3.Click the cart icon<br>4.Click update button  | Quantity:100000 | Cart update<br>does not work<br>and shows<br>"value must<br>be less than<br>maximum<br>product<br>quantity" | As<br>Expected | Pass |
| TC16 | Delete<br>individual<br>item from<br>cart.                                      | 1. Login as customer<br>2. click cart icon<br>3.Select product and press<br>"মুছুন"  | N/A             | Customer can successfully delete product from the cart.   | As<br>expected | Pass |
| TC17 | Delete all<br>items from<br>cart.   | 1. Login as customer.<br>2.Click cart icon.<br>3.Press "কার্টের সকল পণ্য<br>মুছুন" button  | N/A             | Customer can successfully remove all products from the cart.  | As expected    | Pass |

| TC18 | Test the procedure of providing rating of customer side                                   | 1.Login as a customer 2. Click on the product that has already been ordered and received from the delivery man 3.click "রেটিং দিন" option. 4.click "জানান" button.       | rating: চমৎকার  | Customer can<br>able to<br>provide their<br>valuable<br>rating about<br>their received<br>products      | As expected    | Pass |
|------|---|--|---|---|----------------|------|
| TC19 | Test<br>procedure of<br>providing<br>feedback of<br>customer side.                        | 1.Login as a customer 2. Click on the product that has already been ordered and received from the delivery man 3.click "রেটিং দিন" option. 4.write feedback into textbox | feedback: গলার হারটি<br>অসাধারণ   | Customer can<br>able to<br>provide their<br>valuable<br>feedback<br>about their<br>received<br>products | As<br>expected | Pass |
| TC20 | Test procedure of proving before ordering.  | 1.Login as a customer     2. Click on the product that has not been ordered.   | N/A   | Customer can<br>not able to<br>provide their<br>valuable<br>feedback .                                  | As expected    | Pass |
| TC21 | Test the procedure of contact to the system owner   | 1. Go to site: //localhost/pollihaat/register.php 2.Click the "যোগাযোগ করুন" option 3.Enter customer's name, email, phone number, message 4. Click the "সেড করুন" option | Name:Sanzida Email:sanzida@gmail.com Mobile: 01882428980 message: "Pallihaat products are always reliable for us, thanks Pallihat." | Customer can<br>able to send<br>their message<br>to the system<br>owner                                 | As<br>expected | Pass |
| TC22 | Test procedure<br>for searching<br>products that do<br>not exist in the<br>system         | 1. Go to site:<br>//localhost/pollihaat/register.php<br>2.Click the search icon<br>3.Input any products name<br>4.click "অনুসন্ধান কৰুন"<br>button                       | Product Name:"কুশ্ব"  | The product<br>has been<br>displayed<br>successfully  | As<br>expected | Pass |
| TC23 | Test procedure<br>for<br>searching for<br>products that do<br>not exist in the<br>system. | 1. Go to site: localhost/pollihaat/search.php 3.Click the search icon 4.Input any products name 5.click "অনুসন্ধান কৰুন" button  | Product Name: "chair"   | The product has not been displayed.   | As<br>expected | Pass |

| TC24 | Test procedure<br>for<br>searching for<br>products that do<br>not exist in the<br>system | 1. Go to site http://localhost/pollihaat/search .php 3.Click the search icon 4.Input any products name 5.click "অনুসন্ধান করুন" button       | Product Name: "chair" | The product has not been displayed  | As expected     | Pass |
|------|--|--|-----------------------|---|-----------------|------|
| TC24 | View all<br>category that<br>exist into the<br>system                                    | 1. Go to site<br>localhost/pollihaat/category.php<br>3.Click the "ক্যাটাগরি" option  | N/A                   | Customer<br>should able to<br>see all the<br>products<br>category of<br>our system                        | As<br>Expected  | Pass |
| TC25 | View all<br>placed orders<br>of a customer.  | 1. Go to site<br>http://localhost/pollihaat//order.<br>php<br>2.Login into the system as a<br>customer<br>3.Click the "অর্ডারসমূহ"<br>option | N/A                   | Customer can<br>able to see<br>details about<br>their ordered<br>products                                 | As<br>Expected  | Pass |
| TC26 | View all<br>products that<br>exist into the<br>system                                    | 1. Go to site<br>http://localhost/pollihaat/regi<br>ster.php<br>2.Click the "পণ্যসমূহ" option  | N/A                   | Customer<br>should able to<br>see all the<br>products of<br>our site                                      | As<br>Expected  | Pass |
| TC27 | View products<br>of a specific<br>category   | 1.Go to site http://localhost/pollihaat/ 3.Click the "ক্যাটাগরি" option from the menu 4.Selects a specific category                          | N/A                   | Customer can<br>able to show<br>all products<br>of our system<br>of their desire<br>category.             | As<br>expeced   | Pass |
| TC28 | Click on<br>notification<br>icon for<br>seeing the<br>condition of<br>order product      | Go to site     http://localhost/pollihaat/     Login as a customer into the system     Click the notification icon                           | N/A                   | Customer can<br>able to see<br>the condition<br>of their<br>ordered<br>product,<br>product<br>details etc | As<br>Expected  | Pass |
| TC29 | Check<br>notifications<br>for customers<br>who have not<br>logged in                     | Go to site     http://localhost/pollihaat/     3.Click the notification icon   | N/A                   | Customer<br>should able to<br>see<br>about their<br>ordered<br>product<br>condition.                      | As not expected | Fail |

| TC30 | Test "forget<br>password"<br>module for<br>registered<br>customer. | 1. Go to site http://localhost/pollihaat/ 2.Click "পাসওয়ার্ড ভুলে গেছেন " option. 3.Enter registered email address 4.Click "নিশ্চিত করুন" button 5.Enter pin which is send to email address. 6.Click "সাবমিট" button. | Email: sanzida822@gmail.<br>com<br>pin: 12jfdjfd                                      | Email must<br>be sent<br>customer<br>email<br>account.               | As not expected | Fail |
|------|--|--|---|--|-----------------|------|
| TC31 | Check admin login with valid data                                  | 1. Go to site<br>http://localhost/pollihaat/regi<br>ster.php<br>2. Click "লগ ইন" icon<br>3.Enter valid username and<br>password<br>4.Click "লগ ইন" button  | Name: Nitu<br>Password: 123   | Successful to login into the system                                  | As<br>Expected  | Pass |
| TC32 | Check admin<br>login with<br>invalid<br>username or<br>password.   | 1. Go to site<br>http://localhost/pollihaat/admin/<br>login.php<br>2. Click "লগ ইন" icon<br>3.Enter invalid username and<br>password<br>4.Click "লগ ইন" button   | Name: Nitu<br>Password: er445   | Admin can<br>not login into<br>the                                   | As<br>Expected  | Pass |
| TC33 | Check the procedure of adding entrepreneurs in our system.         | 1.Login as an admin<br>2.Click "উদ্যোক্তা" from menu<br>bar<br>3.Input entrepreneur name,<br>email, mobile number and<br>password.<br>4.Click "উদ্যোক্তা যোগ করুন"<br>button.  | Name: অনুপা<br>Email: <u>anupa@gmail.com</u><br>Mobile No:01712324980<br>Password:123 | Successful to<br>adding a new<br>entrepreneur<br>in our system       | As expected     | Pass |
| TC34 | Check<br>entrepreneur<br>add invalid<br>password<br>length.        | 1.Login as an admin<br>2.Click "উদ্যোক্তা" from menu<br>bar<br>3.Input entrepreneur name,<br>email, mobile number and<br>password.<br>4.Click "উদ্যোক্তা যোগ করুন"<br>button.  | Name: arman<br>Email: arman@gmail.com<br>Mobile No:01712324980<br>Password:123        | Entrepreneur should not be added into the system.                    | As not expected | Fail |
| TC35 | Check<br>entrepreneur<br>edit procedure<br>from admin<br>side.     | 1.Login as an admin 2.Click "উদ্যোক্তা" from menu bar 3.Click "পরিবর্তন" option/ 3.Input entrepreneur name, email, mobile number and password. 4.Click "উদ্যোক্তার তথ্য পরিবর্তন করুন" button.                         | Name:Nokshi<br>Email: noksi@gmail.com<br>Mobile No:01812324980<br>Password:123        | Successful to<br>updated<br>entrepreneur<br>account in<br>our system | As expected     | Pass |

| TC36 | Check<br>entrepreneur<br>add procedure<br>with invalid<br>email address<br>which does<br>not exists.    | 1.Login as an admin<br>2.Click "উদ্যোক্তা" from menu<br>bar<br>3.Input entrepreneur name,<br>email, mobile number and<br>password.<br>4.Click "উদ্যোক্তা যোগ করুন"<br>button.  | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:01812324980<br>Password:1238jn8hh  | Entrepreneur should not be added into the system.          | As not expected | Fail |
|------|---|--|---|--|-----------------|------|
| TC37 | Check<br>entrepreneur<br>add procedure<br>with invalid<br>mobile<br>number which<br>does not<br>exists. | 1.Login as an admin<br>2.Click "উদ্যোক্তা" from menu<br>bar<br>3.Input entrepreneur name,<br>email, mobile number and<br>password.<br>4.Click "উদ্যোক্তা যোগ করুন<br>" button. | Name:Nitu<br>Email: Nitu@gmail.com<br>Mobile No:010012324980<br>Password:1238jn8hh  | Entrepreneur<br>should not be<br>added into the<br>system. | As not expected | Fail |
| TC38 | Add<br>entrepreneur<br>with duplicate<br>email address<br>which already<br>exists into the<br>system.   | 1.Login as an admin<br>2.Click "উদ্যোক্তা" from menu<br>bar<br>3.Input entrepreneur name,<br>email, mobile number and<br>password.<br>4.Click "উদ্যোক্তা যোগ করুন"<br>button.  | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:010012324980<br>Password:1238jn8hh | Entrepreneur<br>does not add<br>the system                 | As<br>expected  | Pass |
| TC39 | Add entrepreneur with duplicate mobile number which already exists into the system.                     | 1.Login as an admin 2.Click "উদ্যোক্তা" from menu bar 3.Input entrepreneur name, email, mobile number and password. 4.Click "উদ্যোক্তা যোগ করুন" button.                       | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:01712324980<br>Password:1238jn8hh  | Entrepreneur<br>does not add<br>the system                 | As<br>expected  | Pass |
| TC40 | Add an entrepreneur with duplicate username which already exists into the system.                       | 1.Login as an admin<br>2.Click "উদ্যোক্তা" from menu<br>bar<br>3.Input entrepreneur name,<br>email, mobile number and<br>password.<br>4.Click "উদ্যোক্তা যোগ করুন"<br>button.  | Name: Nitu<br>Email: Nitu@gmail.com<br>Mobile No:01712324980<br>Password:1238jn8hh  | Entrepreneur<br>does not add<br>the system                 | As<br>expected  | Pass |
| TC41 | Check delete<br>entrepreneur<br>procedure.  | 1.Login as a admin<br>2.Click "উদ্যোক্তা" from menu<br>bar<br>3.Click "মুছুন" button.<br>4.System asks for confirmation<br>5.Click ok option.                                  | N/A   | Entrepreneur successfully remove from the system.          | As<br>expected  | Pass |

| TC42 | Update<br>entrepreneur<br>with duplicate<br>username<br>which already<br>exists into the<br>system.      | 1.Login as a admin 2.Click "উদ্যোক্তা" from menu bar 3.Click "পরিবর্তন" option/ 3.Input entrepreneur name, email, mobile number and password. 4.Click "উদ্যোক্তার তথ্য পরিবর্তন করুন" button. | Name: Nokshi<br>Email: noksi@gmail.com<br>Mobile No:01812324980<br>Password:123 | Entrepreneur<br>does not<br>updated the<br>system    | As expected | Pass |
|------|--|---|---|--|-------------|------|
| TC43 | Update<br>entrepreneur<br>with duplicate<br>email which<br>already exists<br>into the system.            | 1.Login as a admin 2.Click "উদ্যোক্তা" from menu bar 3.Click "পরিবর্তন" option/ 3.Input entrepreneur name, email, mobile number and password. 4.Click "উদ্যোক্তার তথ্য পরিবর্তন করুন" button. | Name: Nokshi<br>Email: noksi@gmail.com<br>Mobile No:01812324980<br>Password:123 | Entrepreneur information does not updated .          | As expected | Pass |
| TC44 | Update entrepreneur account with valid information.  | 1.Login as a admin 2.Click "উদ্যোক্তা" from menu bar 3.Click "পরিবর্তন" option/ 3.Input entrepreneur name, email, mobile number and password. 4.Click "উদ্যোক্তার তথ্য পরিবর্তন করুন" button. | Name: Bithy<br>Email: bithy@gmail.com<br>Mobile No:01612324980<br>Password:1267 | Entrepreneur<br>account<br>updated<br>successfully   | As expected | Pass |
| TC45 | Update<br>entrepreneur<br>with duplicate<br>mobile number<br>which already<br>exists into the<br>system. | 1.Login as a admin 2.Click "উদ্যোক্তা" from menu bar 3.Click "পরিবর্তন" option. 3.Input entrepreneur name, email, mobile number and password. 4.Click "উদ্যোক্তার তথ্য পরিবর্তন করুন" button. | Name: Rintu<br>Email: rintu@gmail.com<br>Mobile No:01812324980<br>Password:123  | Entrepreneur information does not updated.           | As expected | Pass |
| TC46 | Check the procedure of adding categories in our system.  | 1.Login as an admin<br>2.Click "ক্যাটাগরি" from menu<br>bar<br>3.Input category name.<br>4.Input image.<br>5.Click "ক্যাটাগরি যোগ করুন"<br>button.  | Category name: মৃৎশিল্প<br>Image: mritshilpo.jpg                                | Successfully<br>added<br>category into<br>the system | As expected | Pass |

| TC47 | Check the procedure of adding categories with duplicate category name which already exists in our system.  | 1.Login as an admin<br>2.Click "ক্যাটাগরি" from menu<br>bar<br>3.Input category name.<br>4.Input image.<br>5.Click "ক্যাটাগরি যোগ করুন"<br>button.                                     | Category name: মৃৎশিল্প<br>Image: mritshilpo.jpg      | Category does<br>not added in<br>the system.                             | As expected     | Pass |
|------|--|--|---|--|-----------------|------|
| TC48 | Add category<br>without<br>uploading<br>image in the<br>system.  | 1.Login as an admin<br>2.Click "ক্যাটাগরি" from menu<br>bar<br>3.Input category name.<br>5.Click "ক্যাটাগরি যোগ করুন"<br>button.   | Category name: মৃৎশিল্প                               | Category does<br>not add in the<br>system.                               | As<br>expected  | Pass |
| TC49 | Check the procedure of adding categories with duplicate category image which already exists in our system. | 1.Login as an admin<br>2.Click "ক্যাটাগরি" from menu<br>bar<br>3.Input category name.<br>4.Input image.<br>5.Click "ক্যাটাগরি যোগ করুন"<br>button.                                     | Category name: মৃৎশিল্প<br>Image: mritshilpo.jpg      | Category<br>should not be<br>added into the<br>system.                   | As not expected | Fail |
| TC50 | Check the procedure of updating category from admin side.  | 1.Login as an admin 2.Click "ক্যাটাগরি" from menu bar 3.Click "পরিবর্তন" button of a specific category 4.Input category name. 4.Input image. 5.Click "ক্যাটাগরি পরিবর্তন করুন" button. | Category name: শাড়ি<br>সমগ্র<br>Image: sharee.jpg    | Successfully<br>updated<br>category<br>information<br>into the<br>system | As expected     | Pass |
| TC51 | Check the procedure of updating category with duplicate category name from admin side.                     | 1.Login as an admin 2.Click "ক্যাটাগরি" from menu bar 3.Click "পরিবর্তন" button of a specific category 4.Input category name. 4.Input image. 5.Click "ক্যাটাগরি পরিবর্তন করুন" button. | Category name: শাড়ি<br>সমগ্র<br>Image: sharee.jpg    | Category<br>information<br>does not add<br>into the<br>system.           | As<br>expected  | Pass |
| TC52 | Check the procedure of updating category with a duplicate category   | 1.Login as an admin<br>2.Click "ক্যাটাগরি" from menu<br>bar<br>3.Click "পরিবর্তন" button of a<br>specific category<br>4.Input category name.   | Category name: হাতে<br>তৈরি গহনা<br>Image: sharee.jpg | Successfully<br>added<br>category into<br>the system.                    | As<br>expected  | Pass |

| TC53 | image from admin side.  Check the procedure of                             | 4.Input image. 5.Click "ক্যাটাগরি পরিবর্তন<br>করুন" button.  1.Login as a admin 2.Click "ক্যাটাগরি" from menu   | N/A  | Successfully  | As expected    | Pass |
|------|--|---|--|---|----------------|------|
|      | deleting a category.   | bar 3.Click "মুছুন" option of a specific category 4.System asks for confirmation 5.Click ok button.   |  | category<br>information<br>from the<br>system                           | expected       |      |
| TC54 | Test the procedure of updating a product information                       | 1.Login as a admin 2.Click "পান্ত" from menu bar 3.Click "পারবর্তন" option of a specific category 4.Input product, product type name, image, quantity, price, category name description image of any product. 5.Click "পারবর্তন করুন" button. | Name:মাটির ব্যাংক<br>Type:কে. জি.<br>Category name:মৃৎশিল্প<br>Quantity:122<br>Description: মাটির তৈরি<br>পণ্য যেনো প্রকৃতির<br>নিদর্শন। | Successfully<br>updated<br>product<br>information<br>into the<br>system | As<br>expected | Pass |
| TC55 | Test the procedure of deleting product data.                               | 1.Login as an admin<br>2.Click "পাণ্ড" from menu bar<br>3.Click "মুছুন" option of a<br>specific category<br>4.System asks for confirmation<br>5.Click ok button.  | N/A  | Successfully<br>remove<br>category from<br>the system.                  | As<br>expected | Pass |
| TC56 | Check the procedure of viewing customer details.                           | 1.Login as an admin 2.Click "(ふり" from menu bar. 3.Admin can view all customer list which were registered into the system.  | N/A  | Successfully<br>view<br>registered<br>customer list.                    | As expected    | Pass |
| TC57 | Check the procedure of viewing the message which was sent by the customer. | 1.Login as an admin<br>2.Click "যোগাযোগ" from menu<br>bar.<br>3.Admin can view all messages<br>sent by customers.   | N/A  | Successfully<br>view all<br>messages sent<br>by customers.              | As expected    | Pass |

| TC58 | Check the procedure of deleting messages from the admin side.  | 1.Login as an admin 2.Click "যোগাযোগ" from menu bar. 3.Admin click delete icon of a specific message sent by customer. 4.System asks for confirmation 5.Admin clicks ok button        | N/A | Successfully<br>remove<br>message from<br>the system.                                 | As expected     | Pass |
|------|--|---|-----|---|-----------------|------|
| TC59 | Check the procedure of viewing the feedback which was sent by the customer.                                    | 1.Login as a nadmin<br>2.Click "প্রতিক্রিয়া" from menu<br>bar.<br>3.Admin can view all feedback<br>sent by customers.  | N/A | Successfully<br>view all<br>feedback sent<br>by customers.                            | As<br>expected  | Pass |
| TC60 | Check the procedure of deleting feedback from the admin side.  | 1.Login as an admin 2.Click "প্রতিক্রিয়া" from menu bar. 3.Admin click delete icon of a specific feedback sent by customer. 4.System asks for confirmation. 5.Admin clicks ok button | N/A | Successfully<br>remove<br>specific<br>feedback from<br>the system.                    | As<br>expected  | Pass |
| TC61 | Check the procedure of viewing all orders which were placed by the customer.                                   | 1.Login as an admin 2.Click "অর্ডার" from menu bar. 3.Admin click delete icon of a specific order. 4.System asks for confirmation. 5.Admin clicks ok button                           | N/A | Successfully<br>delete specific<br>orders which<br>were placed<br>by the<br>customer. | As expected     | Pass |
| TC62 | Check the procedure of viewing all orders which were placed by the customer but not delivered to the customer. | 1.Login as a admin 2.Click "অর্ডার" from menu bar. 3.Admin click delete icon of an undelivered order. 4.System asks for confirmation. 5.Admin clicks ok button.                       | N/A | Successfully<br>delete specific<br>undelivered<br>order.                              | As not expected | Fail |
| TC63 | Test the procedure of sending email when a product is received from the entrepreneur.                          | 1.Login as a admin<br>2.Click "অর্ডার" from menu<br>bar.<br>3.Admin selects "হয়েছে" from<br>পণ্য গ্রহণ।<br>4.Admin clicks update icon  | N/A | Email must be sent to the customer email account.                                     | As not expected | Fail |

| TC64 | Check the procedure of generating a pdf of an order.                           | 1.Login as a admin 2.Click "অর্ডার" from menu bar. 3.Admin pdf icon of a specific order. 4.System displays orders details to the admin. 5.Admin clicks "ইনভয়েস তৈরি করুন" option. | N/A | System<br>successfully<br>generates an<br>invoice of a<br>specific order.        | As expected     | Pass |
|------|--|--|-----|--|-----------------|------|
| TC65 | Test the procedure of sending email when a product is delivered to a customer. | 1.Login as a admin<br>2.Click "অর্ডার" from menu<br>bar.<br>3.Admin selects "হয়েছে" from<br>পণ্য ডেলিভেরি।<br>4.Admin clicks update icon  | N/A | Email must be sent to the customer email account.                                | As not expected | Fail |
| TC66 | Check the procedure of deleting orders from the admin side.                    | 1.Login as a admin 2.Click "অর্ডার" from menu bar. 3.Admin delete icon of a specific order. 4.System asks for confirmation. 5. Admin selects the ok option.                        | N/A | Admin can<br>successfully<br>delete any<br>specific order<br>from the<br>system. | As<br>expected  | Pass |
| TC67 | Check the<br>"লগ<br>আউট" option<br>from customer<br>side.                      | 1. Go to site<br>localhost/pollihaat/login.php<br>2.Login into the system<br>3.Click the "লগ আউট" option   | N/A | Customer can successfully logout from the system.                                | As<br>Expected  | Pass |
| TC68 | Check the<br>"ক্যাটাগরি"<br>option from<br>admin side                          | 1.Login as admin.<br>2.Admin clicks "ক্যাটাগরি"<br>option from menu bar.   | N/A | Successfully<br>see all the<br>categories of<br>our system.                      | As<br>Expected  | Pass |
| TC69 | Check the<br>"লগ আউট"<br>option from<br>admin side                             | 1. Go to site<br>http://localhost/pollihaat/logout.<br>php<br>2.Click "লগ আউট" button  | N/A | Admin should<br>able to<br>successfully<br>logout from<br>the system             | As<br>Expected  | Pass |

| TC70 | Check<br>entrepreneur<br>login with<br>valid name<br>and password.                         | 1. Go to site<br>http://localhost/pollihaat/login.p<br>hp<br>2.Enter name<br>3.Enter password<br>4.Click the login option   | Name: মিতু<br>Password:123   | Entrepreneur can successfully login into the system.                  | As expected     | Pass |
|------|--|---|--|---|-----------------|------|
| TC71 | Check<br>entrepreneur<br>login with<br>invalid name<br>and password                        | 1. Go to site<br>http://localhost/pollihaat/login.p<br>hp<br>2.Enter name<br>3.Enter password<br>4.Click the login option   | Name: Taha<br>Password:122334  | Entrepreneur cannot login into the system.                            | As expected     | Pass |
| TC72 | Check the products add procedure by the entrepreneur                                       | 1.Login as an entrepreneur 2.Click "পণ্ডা" option from menu bar 3.Enter products name 4.Choose product type 5.Choose the category of the product 5.Enter the unit price of that product 6.Enter the quantity of that product 7.Add a image for that product 8.Click the "পণ্ডা যোগ করুন" button   | Name: সন্দেশ<br>Type: কেজি<br>Category: বাঙালি ভোজ<br>Unit price: ২৫০<br>Quantity: ২৫ কেজি<br>Image: sondesh.jpg | Entrepreneur can successfully add product in the system               | As expected     | Pass |
| TC73 | Check the products add procedure by the entrepreneur which already exists into the system. | 1.Login as an entrepreneur 2.Click "প্ৰণ্ড" option from menu bar 3.Enter products name 4.Choose product type 5.Choose the category of the product 5.Enter the unit price of that product 6.Enter the quantity of that product 7.Add a image for that product 8.Click the "প্ৰণ্ড যোগ কৰুন" button | Name: সন্দেশ<br>Type: কেজি<br>Category: বাঙালি ভোজ<br>Unit price: ২৫<br>Quantity: ২৫ কেজি<br>Image: sondesh.jpg  | Products<br>should no<br>added into the<br>system.                    | As not expected | Pass |
| TC74 | Add product<br>without<br>uploading<br>image in the<br>system from                         | 1.Login as an entrepreneur 2.Click "역대" option from menu bar 3.Enter products name 4.Choose product type  | Name: সন্দেশ<br>Type: কেজি<br>Category: বাঙালি ভোজ<br>Unit price: ২৫০<br>Quantity:২৫ কেজি                        | Entrepreneur<br>should not<br>able to add<br>product<br>in the system | As expected     | Pass |

|      | entrepreneur<br>side   | 5.Choose the category of the product 5.Enter the unit price of that product 6.Enter the quantity of that product 7.Click the "পণ্য যোগ করুন"  | Image:   |  |             |      |
|------|--|---|--|--|-------------|------|
| TC75 | Add product without selecting the category in the system from the entrepreneur side.                         | 1.Login as an entrepreneur 2.Click "প্ৰায়" option from menu bar 3.Enter products name 4.Choose product type 5.Enter the unit price of that product 6.Enter the quantity of that product 7.Add an image for that product 8.Click the "প্ৰায় যোগ কৰুন" button | Name: সন্দেশ<br>Type: কেজি<br>Category:<br>Unit price:২৫০<br>Quantity:২৫ কেজি<br>Image:sondesh.jpg       | Entrepreneur<br>should not<br>able to add<br>product<br>in the system  | As expected | Pass |
| TC76 | Add product<br>without<br>entering the<br>products<br>quantity in the<br>system from<br>entrepreneur<br>side | 1.Login as an entrepreneur 2.Click "পান্ত" option from menu bar 3.Enter products name 4.Choose product type 5.Enter the unit price of that product 6.Add a image for that product 8.Click the "পান্ত যোগ করুন" button   | Name: সন্দেশ<br>Type: কেজি<br>Category: বাঙালি ভোজ<br>Unit price: ২৫০<br>Quantity:<br>Image: sondesh.jpg | Entrepreneur<br>should not<br>able to add<br>product<br>in the system  | As expected | Pass |
| TC77 | Check the order by the entrepreneur  | 1.Login as an entrepreneur<br>2.Click "অর্ডার" option from<br>the menu bar  | N/A  | Entrepreneur<br>should be able<br>to see the<br>order details<br>like product<br>name, price,<br>unit price etc. | As expected | Pass |
| TC78 | Check the feedback by the entrepreneur about the delivered products  | 1.Login as an entrepreneur<br>2.Click প্রতিক্রিয়া" option from<br>menu bar   | N/A  | Entrepreneur<br>should able to<br>see the<br>feedback<br>about products  | As expected | Pass |

| TC79 | Add a product with duplicate image in the system from the entrepreneur side. | 2.Click "পণ্ড" option from<br>menu bar<br>3.Enter products name | Category: | Entrepreneur should not able to add product into the system. | As not expected | Fail |
|------|--|---|-----------|--|-----------------|------|
|------|--|---|-----------|--|-----------------|------|

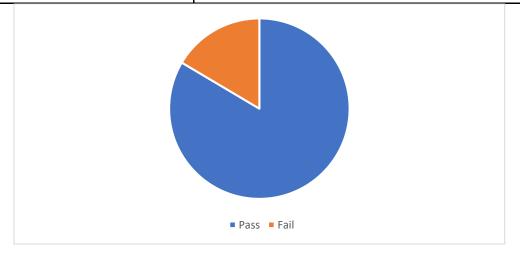
# 5.2 Non-Functional Requirement:

| Test<br>Case<br>ID | Test Scenario   | •  |   | Expected<br>Result  | Actual<br>Result | Pass/Fail |
|--------------------|---|--|---|---|------------------|-----------|
| TC80               | Review product with image.  | 1.Login as a customer.<br>2.Click product image<br>3.Write feedback                              | N/A                                       | Customer should<br>be able to<br>successfully send<br>feedback.                       | As not expected  | Fail      |
| TC81               | Review product without image  | 1Log in as customer<br>2.enter review<br>3.write something and<br>press "পেড" button             | N/A                                       |   | As expected      | Pass      |
| TC82               | Tracking order location   | 1.login as customer<br>2.Click "অর্ডারসমূহ"<br>from menu bar.                                    | N/A                                       | Customer should<br>able to see order<br>location which<br>he/she placed<br>before.    | As not expected  | Fail      |
| TC83               | Check if user login into the system within minimum time                                     | 1.Go to site:<br>http://localhost/pollihaat<br>/login.php<br>2. Enter email<br>3. Enter Password | Email:<br>nitu@gmail.com<br>Password:1232 | User should able<br>to access<br>profile within<br>short time                         | As expected      | Pass      |
| TC84               | Check a user<br>should be able<br>to log in<br>from different<br>devices<br>simultaneously. | 1.Go to site:<br>http://localhost/pollih<br>aat/   | N/A                                       | Customer,<br>entrepreneur must<br>be<br>able to<br>access profile<br>from any devices | As<br>expected   | Pass      |

| TC85 | Check the         | 1.Go to site:           | N/A | User should        | As       | Pass |
|------|-------------------|-------------------------|-----|--------------------|----------|------|
|      | application       | http://localhost/pollih |     | be able to use the | expected |      |
|      | should not cause  | aat/                    |     | system friendly    |          |      |
|      | device heating or |                         |     | without any        |          |      |
|      | battery draining. |                         |     | battery problem.   |          |      |
|      |                   |                         |     |                    |          |      |
|      |                   |                         |     |                    |          |      |
|      |                   |                         |     |                    |          |      |
|      |                   |                         |     |                    |          |      |
|      |                   |                         |     |                    |          |      |
|      |                   |                         |     |                    |          |      |

# 5.3 Test Summary

| Test Summary                      |        |  |  |  |  |  |  |
|-----------------------------------|--------|--|--|--|--|--|--|
| The number of test cases executed | 85     |  |  |  |  |  |  |
| The numbers of test cases pass    | 71     |  |  |  |  |  |  |
| The numbers of test cases fail    | 14     |  |  |  |  |  |  |
| Pass percentage                   | 83.52% |  |  |  |  |  |  |
| Fail percentage                   | 16.48% |  |  |  |  |  |  |



### 5.4 Bugs Reporting

| No   | Bug Description   | Status |
|------|---|--------|
| Bug1 | System owner can add entrepreneur invalid password length.                  | Open   |
| Bug2 | System failed to send email to the customer email account.                  | Open   |
| Bug3 | System accepts duplicate category image.                                    | Open   |
| Bug4 | Entrepreneur add duplicate product image when add or update a product.      | Open   |
| Bug5 | System accepts invalid email address of entrepreneurs which does not exist. | Open   |
| Bug6 | System accepts invalid mobile number of entrepreneurs which does not exist. | Open   |

## Phase -6: Test Cycle Closure

A check against the test exit criteria is very essential to claim that the testing is now complete. Before putting an end to the test process, the product quality is measured against the test completion criteria.

| Exit Criteria  | Criteria Met?<br>(Yes/No) | If No, Describe Plan of Action  |
|--|---------------------------|---|
| All test scripts have been successfully executed.                                    | YES                       |   |
| All expected and actual results are captured and documented with the test script(s). | YES                       |   |
| All identified critical or high severity defects have been corrected and retested.   | NO                        | Those identified critical defects will be assign to the developers to resolve those |
| Any unresolved defects are documented and signed-off by the project manager.         | NO                        | Those unsolved defects will be assigned to the developers to resolve those          |

# Traceability Matrix for Functional Requirement

|      | FR-<br>01 | FR-<br>02 | FR-<br>03 | FR-<br>04 | FR-<br>05 | FR-<br>06 | FR-<br>07 | FR-<br>08 | FR-<br>09 | FR-<br>10 | FR-<br>11 |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TC01 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC02 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC03 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC04 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC05 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC06 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC07 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC08 |           |           |           |           |           |           | ✓         |           |           |           |           |
| TC09 |           |           |           |           |           |           | ✓         |           |           |           |           |
| TC10 |           |           |           |           |           |           | ✓         |           |           |           |           |
| TC11 |           |           |           |           |           |           | ✓         |           |           |           |           |
| TC12 |           |           |           |           |           |           | ✓         |           |           |           |           |
| TC13 |           |           |           |           |           |           | ✓         |           |           |           |           |
| TC14 |           |           |           |           |           |           | <b>√</b>  |           |           |           |           |
| TC15 |           |           |           |           |           |           | <b>√</b>  |           |           |           |           |
| TC16 |           |           |           |           |           |           | <b>✓</b>  |           |           |           |           |
| TC17 |           |           |           |           |           |           | <b>✓</b>  |           |           |           |           |
| TC18 |           |           |           |           |           | <b>✓</b>  |           |           |           |           |           |
| TC19 |           |           |           |           |           | <b>√</b>  |           |           |           |           |           |
| TC20 |           |           |           |           | <b>√</b>  |           |           |           |           |           |           |
| TC21 |           | ✓         |           |           |           |           |           |           |           |           |           |
| TC22 |           |           |           |           |           |           |           |           |           | <b>✓</b>  |           |
| TC23 |           |           |           |           |           |           |           |           |           | <b>✓</b>  |           |
| TC24 |           |           |           |           |           |           |           |           |           | <b>√</b>  |           |
| TC25 |           |           |           |           |           |           | ✓         |           |           |           |           |
| TC26 |           |           |           |           |           |           |           |           |           | ✓         |           |
| TC27 |           |           |           |           |           |           |           |           |           | ✓         |           |
| TC28 |           |           |           |           | ✓         |           |           |           |           |           |           |
| TC29 |           | ✓         |           |           |           |           |           |           |           |           |           |
| TC30 |           |           |           |           |           |           |           | ✓         |           |           |           |
| TC31 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC32 | ✓         |           |           |           |           |           |           |           |           |           |           |
| TC33 |           |           |           |           |           |           |           |           | ✓         |           |           |
| TC34 |           | ✓         |           |           |           |           |           |           |           |           |           |
| TC35 |           | ✓         |           |           |           |           |           |           |           | 1         |           |
| TC36 |           | ✓         |           |           |           |           |           |           |           | 1         |           |
| TC37 |           | ✓         |           |           |           |           |           |           |           |           |           |
| TC38 |           | ✓         |           |           |           |           |           |           |           |           |           |

| TI COO | 1        |   |   |   | I        | I | ı | ı |          | 1        |
|--------|----------|---|---|---|----------|---|---|---|----------|----------|
| TC39   |          | ✓ |   |   |          |   |   |   |          |          |
| TC40   |          | ✓ |   |   |          |   |   |   |          |          |
| TC41   |          | ✓ |   |   |          |   |   |   |          |          |
| TC42   |          | ✓ |   |   |          |   |   |   |          |          |
| TC43   |          | ✓ |   |   |          |   |   |   |          |          |
| TC44   |          | ✓ |   |   |          |   |   |   |          |          |
| TC45   |          | ✓ |   |   |          |   |   |   |          |          |
| TC46   |          |   |   | ✓ |          |   |   |   |          |          |
| TC47   |          |   |   | ✓ |          |   |   |   |          |          |
| TC48   |          |   |   | ✓ |          |   |   |   |          |          |
| TC49   |          |   |   | ✓ |          |   |   |   |          |          |
| TC50   |          |   |   | ✓ |          |   |   |   |          |          |
| TC51   |          |   |   | ✓ |          |   |   |   |          |          |
| TC52   |          |   |   | ✓ |          |   |   |   |          |          |
| TC53   |          |   |   | ✓ |          |   |   |   |          |          |
| TC54   |          |   |   | ✓ |          |   |   |   |          |          |
| TC55   |          |   |   | ✓ |          |   |   |   |          |          |
| TC56   |          | ✓ |   |   |          |   |   |   |          |          |
| TC57   |          |   |   |   |          |   |   |   |          | ✓        |
| TC58   |          |   |   |   |          |   |   |   |          | <b>√</b> |
| TC59   |          |   |   |   |          |   |   |   |          | ✓        |
| TC60   |          |   |   |   |          |   |   |   |          | <b>✓</b> |
| TC61   |          |   |   |   | <b>√</b> |   |   |   |          |          |
| TC62   |          |   |   |   | ✓        |   |   |   |          |          |
| TC63   |          |   |   |   |          |   |   |   |          | <b>√</b> |
| TC64   |          |   |   |   | ✓        |   |   |   |          |          |
| TC65   |          |   |   |   |          |   |   |   |          | ✓        |
| TC66   |          |   |   |   | <b>√</b> |   |   |   |          |          |
| TC67   | ✓        |   |   |   |          |   |   |   |          |          |
| TC68   |          |   |   | ✓ |          |   |   |   |          |          |
| TC69   | ✓        |   |   |   |          |   |   |   |          |          |
| TC70   |          |   |   |   |          |   |   |   | ✓        |          |
| TC71   |          |   | ✓ |   |          |   |   |   |          |          |
| TC72   |          |   |   |   |          |   |   |   | ✓        |          |
| TC73   |          |   |   |   |          |   |   |   | ✓        |          |
| TC74   |          |   |   |   |          |   |   |   | <b>√</b> |          |
| TC75   |          |   |   |   |          |   |   |   | <b>√</b> |          |
| TC76   |          |   |   |   |          |   |   |   | <b>√</b> |          |
| TC77   |          |   |   |   |          |   |   |   | <b>√</b> |          |
| TC78   |          |   |   |   |          |   |   |   | <b>√</b> |          |
| TC79   |          |   |   |   |          |   |   |   | <b>✓</b> |          |
|        | <u> </u> |   |   |   |          |   | l |   | 7        |          |

# Traceability Matrix for Non-Functional Requirement

|      | NFR-01 | NFR-02 | NFR-03 | NFR-04 | NFR-05 | NFR-06 |
|------|--------|--------|--------|--------|--------|--------|
| TC80 |        |        | ✓      |        |        |        |
| TC81 |        |        |        | ✓      |        |        |
| TC82 |        |        |        |        | ✓      |        |
| TC83 |        |        | ✓      |        |        |        |
| TC84 |        |        |        |        |        | ✓      |
| TC85 |        | ✓      |        |        |        |        |