

Test Plan: Eden Fresh

Provided by Team Web Crawlers

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1. Introduction

The objective of the test plan is to ensure that the web application, Eden Fresh, is going to work properly before being released. It outlines what component needs to be tested, how it's going to be tested, along with the testing schedule and deadlines. This document also outlines what our strategy is and the identification and mitigation of potential risks. The test plan will be used as a blueprint to ensure all the function testing will be done in an orderly and timely fashion.

2. Scope

2.1 In Scope

The following areas are in scope for this test plan:

- Be able to evaluate the main priorities of the project
- Test features to ensure that the project will work correctly
- Ensure that individual features will be able to function when grouped together
- Know what the risks are and what to do to avoid it
- State the timeframe that each component should be tested during

2.2 Out of Scope

The following areas are out of scope for this test plan:

- Assigning responsibilities and testing requirements to team members
- Going into low-level details

3. Objective

The objective of the test plan is to ensure all the components of the web application are working correctly. The goal is to test the user interface, security, usability, and functionality of the application. For the user interface portion, we want to ensure that the user can only see what is made visible to them and access/edit pages that are pertinent to them. We also want to make sure that the buttons are correctly functioning. For the security aspect, we want to make certain that all the user's private information can't be accessed by anyone other than themselves unless they give us permission otherwise. Usability is tested by making sure the website is user-friendly and easy to understand. Lastly, the functionality will be tested by ensuring that the user will be able to login/logout of their account and the user will be able to interact with their account like how it is made to function (ie. create posts, edit posts, view posts, write reviews, chat, etc.).

4. Strategy

To make sure that the website will perform as best as it can, the test plan will be set up so that all the tests will be assigned a number according to its importance. In the case that we are not able to test everything we want to due to time constraints, the most important task will be done first.

5. Risks Identification and Risk Mitigation

Risks that are susceptible to occur within our web application are due to poorly executed test scenarios and overlooked requirements. Some risks that could be identified before the start of the implementation of each feature are from 3rd party APIs, requirements changes within a feature, and changes to dependencies that will affect the rest of the system. For example, we are planning to use a 3rd party maps and directions service, if this service were to fail then the feature that depends on the service and its dependencies will fail. This is an inevitable major risk to our web application since we do not own the 3rd party service. In order to avoid this risk, we would need to find backup solutions for the service or constantly be testing it throughout development. Requirement changes within all of the system requirements and unique features are a risk. If we were to add or remove user requirements in a given feature then it would affect the tests we plan on conducting. To mitigate this, we have identified and stated all of the requirements that the user should be able to do and did not include requirements that the user should not do. Similar to the previous risk statement, changes to dependencies can drastically affect the rest of the system. In order to mitigate this, we have already identified and included the requirements of the user for all the features. There should not be any changes to dependencies; however, if there were to be changed then we would make that test scenario have high priority and begin testing it.

6.Procedures/Testing

7.1 Set-up Shop

Timeframe

1/24/2022 - 1/29/2022

7.1.1 Post Current Products For Sale With All Product Information

Verification

This functionality is verified when logged in users are given the ability to:

- Post current products for sale with all the product information
 - The current number of stock, price per pound or piece, images of the product, and a description of the product.

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - The user is able to post current products for sale with all the product information
- Invalid Cases:
 - The user is unable to post the product, the current number of stock, price per pound or piece, images of the product, or a description of the product.

Type of Test to be Conducted

System Testing, Interface testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has high priority since the other requirements depend on it in order to fully function.

Test Execution Steps:

- Inputs:
 - Product listing with all of the needed information:
 - Product name, price, current stock, images, description
- Expected Outputs:
 - A posted product listing containing all of the inputted information
- Process:
 - User inputs all of the information required for posting the product
 - Product name, price, current stock, images, description
 - The user publishes their posting

7.1.2 Delete a Posted Product

Verification

This functionality is verified when logged in users are given the ability to:

- Delete a post regarding a product currently on sale which they have posted

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - The user is able to delete the post that they have posted and it is deleted within 3 seconds
- Invalid Cases:
 - The user is unable to delete the post that they have posted or it is not deleted within 3 seconds

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has the medium priority out of the three because it first requires requirement 7.1.1 to be implemented and functional first.

Test Execution Steps:

- Inputs:
 - Product listing with all of the needed information:
 - Product name, price, current stock, images, description
- Expected Outputs:
 - The selected product listing has been deleted and cannot be viewed
- Process:
 - User selects the product posting they want to delete
 - User selects delete

7.1.3 Post Preferred Meet-up Location

Verification

This functionality is verified when logged in users are given the ability to:

- Post their preferred meet-up location

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Users are able to post a valid meet-up location
- Invalid Cases:
 - Users are unable to post a valid meet-up location

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

3 - This requirement has the lowest priority out of the three because it does not rely on the other requirements.

Test Execution Steps:

- Inputs:
 - Desired Meeting-up Location
- Expected Outputs:

- The inputted, desired meeting-up location has been posted and is viewable to other users
- Process:
 - The user inputs their desired meet-up location
 - The user saves their edit.

7.2 Reservation and Transaction

Timeframe

1/31/2022 - 2/5/2022

7.2.1 Request a Product Reservation

Verification

This functionality is verified when logged in users are given the ability to:

- Request a product reservation for a currently in-stock product

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Users are able to send a request for a valid amount of stock for an on-sale product that is sent to the seller within 3 seconds
- Invalid Cases:
 - Users are able to send requests for a valid amount of stock for an on-sale product or the request is not sent within 3 seconds

Type of Test to be Conducted

System Testing, Performance Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority because the rest of the feature requirements depend on it to fully function.

Test Execution Steps:

- Inputs:
 - The desired amount of stock for a given product
- Expected Outputs:
 - A sent product reservation request to the seller
- Process:
 - The user inputs the desired amount of stock for a product
 - The user selects to send their product reservation request to the seller

7.2.2 Accept or Deny a Product Reservation Request

Verification

This functionality is verified when logged in users are given the ability to:

- Users are able to view the received product reservation request, accept the request, or deny it

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Users who have received a product reservation request are able to view the request, accept it, or deny it
- Invalid Cases:
 - Users who have received a product reservation request are unable to view the request, accept it, or deny it

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has a “2” priority since it helps represent what the feature is supposed to do and there are requirements that depend on this requirement.

Test Execution Steps:

- Inputs:
 - A product reservation request that has been received
- Expected Outputs:
 - Notification sent to the buyer stating whether their request has been accepted or denied
- Process:
 - The seller receives the product reservation request and views it
 - The seller selects to accept or deny the request
 - The seller sends the decision to the buyer

7.2.3 Cancel a Product Reservation

Verification

This functionality is verified when logged in users who have sent the request are given the ability to:

- Cancel the product reservation request that they have sent

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Users who have sent the product reservation request are able to cancel it and it is no longer viewable to the receiver
- Invalid Cases:
 - Users who have sent the product reservation request are unable to cancel it or it is still viewable to the receiver after it has been cancelled

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

4 - This requirement has a "4" priority because it relies on requirements 7.1.1 and 7.1.2 in order to work.

Test Execution Steps:

- Inputs:
 - A product reservation request that has been sent to the seller:
- Expected Outputs:
 - A cancelled product reservation request that cannot be accepted or denied.
- Process:
 - The buyer views their product reservation request
 - The buyer selects to cancel the request
 - The buyer saves their edit

7.2.4 Change Reserved Amount

Verification

This functionality is verified when logged in users who have sent the request are given the ability to:

- Change the initially desired reserved amount to a new valid desired amount

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - The user who has sent the product reservation request is able to change the reserved amount to a valid amount and the change is updated for the receiver
- Invalid Cases:
 - The user who has sent the product reservation request is unable to change the reserved amount to a valid amount or the change is not updated for the receiver

Type of Test to be Conducted

Unit Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

5 - This requirement has the lowest priority because it does not rely on any of the requirements for this feature.

Test Execution Steps:

- Inputs:
 - A product reservation request that has been sent to the seller:
- Expected Outputs:
 - An updated product reservation request that contains the new desired amount of stock.
- Process:
 - The buyer views their product reservation request
 - The buyer selects to update the amount of stock requested
 - The buyer inputs the amount of stock they desire
 - The buyer saves their edit

7.2.5 View Current State of Transaction

Verification

This functionality is verified when logged in users who have sent the request and received it are given the ability to:

- View the current state of the transaction

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Both parties are able to see the current state of the transaction that is taking place
- Invalid Cases:
 - Both parties are unable to see the current state of the transaction that is taking place
 - The current state of the transaction is not accurate
 - The current state is not being updated or has been updated to the wrong state

Type of Test to be Conducted

Interface Testing

Priority: (High) 1 - 10 (Low)

3 - This requirement has a medium priority because it is one of the requirements that depict what this feature represents and it does not have any dependencies.

Test Execution Steps:

- Inputs:
 - A product reservation request that has been accepted by the seller:
- Expected Outputs:
 - A view that shows all of the information regarding the request and the current state of the transaction.
- Process:
 - The user selects the product reservation request
 - The user views the product reservation request and sees all of the information regarding the request

7.3 Request Fulfillment

Timeframe

2/7/2022 - 2/12/2022

7.3.1 Post a Product Request Fulfillment Bid

Verification

This functionality is verified when logged in users are given the ability to:

- Post a request fulfillment bid that is viewable to other logged in users

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Users are able to post a request fulfillment bid that is viewable to other logged in users within 3 seconds
- Invalid Cases:
 - Users are unable to post a request fulfillment bid
 - The bid is not viewable to other logged in users or it takes longer than 3 seconds to be viewable

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since the other requirements for this feature depend on it to be fully functional before it can be tested.

Test Execution Steps:

- Inputs:
 - All of the needed information for the requested product:
 - Product name and desired stock
- Expected Outputs:
 - A posted product request fulfillment bid containing all of the inputted information, which can be viewed by all users
- Process:
 - User inputs all of the information required for posting the product
 - Product name, desired stock
 - The user publishes their posting

7.3.2 Reply to Product Request Fulfillment Bid

Verification

This functionality is verified when logged in users are given the ability to:

- Reply to a request fulfillment bid with their proposed price offer

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Users are able to reply to a request fulfillment bid with their proposed price offer
- Invalid Cases:
 - Users are unable to reply to a request fulfillment bid with their proposed price offer

Type of Test to be Conducted

System Testing, Performance Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has a "2" priority because it is the requirement that depends on the previously stated requirement. This requirement also has dependencies (7.3.3).

Test Execution Steps:

- Inputs:
 - Product listing with all of the needed information:
 - Product name, desired stock
 - The price offer for the product request fulfillment bid

- Expected Outputs:
 - A posted reply to the product request fulfillment bid containing their inputted price offer.
- Process:
 - User views and selects the product request fulfillment bid
 - User inputs the price offer for the selected bid
 - The user selects to post their reply

7.3.3 Accept Product Request Fulfillment Bid

Verification

This functionality is verified when logged in users who have posted the request fulfillment bid are given the ability to:

- Accept the offer that has been replied to on their posted request fulfillment bid and it is removed and no longer viewable to other users

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Users are able to accept the offer that has been replied to on their product fulfillment bid, the post is removed, and no longer viewable to other users
- Invalid Cases:
 - Users are unable to accept the offer that has been replied to on their product fulfillment bid
 - The post is not removed after the offer has been accepted
 - The post is still viewable to other users even after the offer has been accepted

Type of Test to be Conducted

System Testing, Performance Testing

Priority: (High) 1 - 10 (Low)

3 - This requirement has a "3" priority because it depends on other requirements to be tested first.

Test Execution Steps:

- Inputs:
 - Product request fulfillment bid with all of the needed information:
 - Product name, desired stock
 - Reply to the product request fulfillment bid with the price offer
- Expected Outputs:
 - An accepted posted request fulfillment bid
 - The request is no longer viewable to other users besides the buyer and the seller
- Process:

- The buyer selects and views their posted product request fulfillment bid
- They select the price offer that they want
- They accept the price offer

7.3.4 View Current State of Transaction

Verification

This functionality is verified when logged in users who have posted the request fulfillment bid and had their proposed price offer accepted are given the ability to:

- View the current state of the transaction

Validation

This functionality is validated when testing for the following valid and invalid test cases:

- Valid Cases:
 - Both parties are able to see the current state of the transaction that is taking place
- Invalid Cases:
 - Both parties are unable to see the current state of the transaction that is taking place
 - The current state of the transaction is not accurate
 - The current state is not being updated or has been updated to the wrong state

Type of Test to be Conducted

Interface Testing

Priority: (High) 1 - 10 (Low)

4 - This requirement has the lowest priority because it is a requirement that does not need to be immediately tested since it is at the lowest level of dependencies.

Test Execution Steps:

- Inputs:
 - A product request fulfillment bid that has been accepted by the buyer
- Expected Outputs:
 - A view that shows all of the information regarding the request and the current state of the transaction.
- Process:
 - The user selects the product request fulfillment bid
 - The user views the product reservation request and sees all of the information regarding the request

7.4 Miles Radius Search

Timeframe

2/14/2022 - 2/19/2022

7.4.1 Input Search Location

Verification

This functionality is verified when logged in users are able to insert their location into the search bar

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - Users are able to input a location of their choosing into the search bar
 - Users are able to select a current location if they want to use their current location
 - If the user inputs an invalid location an error should show up
- Invalid Cases:
 - The system doesn't correct the invalid address and just shows an empty search result

Type of Test to be Conducted

Unit Testing, System testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since the other requirements for this feature depend on it to be fully functional before they can be tested.

Test Execution Steps:

- Inputs:
 - The location that the user wants to use as the search location:
 - Desired inputted location to be used as the search location
 - The current location of the user
- Expected Outputs:
 - A map that shows all of the ingredient listings around their search location.
- Process:
 - The user inputs the location that they want to use as their search location
 - The user selects to search using their inputted location
 - The map is updated to show all of the ingredient listings around their search location

7.4.2 Select Miles Radius Search Constraint

Verification

This functionality is verified when logged in users are able to filter their search radius based on the chosen location and the selected mile

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - Users are able to filter their results down to the select miles based on their chosen location
 - The user will be unable to choose their current location as their starting point if they do not give permission to the system
- Invalid Cases:
 - The user is unable to filter the results down to the selected miles

Type of Test to be Conducted

Unit Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has the lowest priority since it depends on the previously stated requirement to be completed first.

Test Execution Steps:

- Inputs:
 - The location that the user wants to use as the search location:
 - Desired inputted location to be used as the search location
 - The current location of the user
 - The user selects the constraint they want to apply to their search
 - 5 miles, 10 miles, 15 miles
- Expected Outputs:
 - A map that shows all of the ingredient listings around their search location.
- Process:
 - The user inputs the location that they want to use as their search location
 - The user inputs the constraint that they want to apply on their search
 - The user selects to search using their inputted location
 - The map is updated to show all of the ingredient listings around their search location

7.5 Cuisine Filter

Timeframe

2/21/2022 - 2/26/2022

7.5.1 Select and Apply Predefined Cuisine to Filter Results

Verification

This functionality is verified when logged in users are able to filter their search based on the chosen cuisine

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - Users are able to filter their results based on the chosen cuisines
 - Users are only able to pick the default cuisines ie. they can not input the cuisine of their choosing
- Invalid cases:
 - Results do not get filtered down based on cuisines

Type of Test to be Conducted

Unit Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since it does not have any other requirement for this particular feature.

Test Execution Steps:

- Inputs:
 - The generated map after executing the miles radius search feature
 - The selected predefined filter:
 - Asian: Chinese, Japanese, Indian, Korean, Thai, Vietnamese
 - European: French, Greek, Italian, Spanish
 - Latin American: Mexican
- Expected Outputs:
 - A map that shows all of the ingredient listings around their search location filtered by the cuisine filter the user has selected.
- Process:
 - The user inputs the location that they want to use as their search location
 - The user selects to search using their inputted location

- The map is updated to show all of the ingredient listings around their search location
- The user selects the cuisine filter that they want to apply to their search results
- The map is updated to show all of the ingredient listings around their search location filtered by the selected cuisine filter

7.6 Real-Time Notifications

Timeframe

2/28/2022 - 3/5/2022

7.6.1 Receive Notifications

Verification

This functionality is verified when logged in users are able to receive notifications as long as they opt-in for it

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The user has the ability to opt-in to get notifications
 - The user is able to receive notifications
- Invalid cases:
 - Even if the user opts into getting notifications, the notifications are appearing

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since the other requirements for this feature depend on it to be fully functional before they can be tested.

Test Execution Steps:

- Inputs:
 - The user that receives default notifications i.e notifications that users are already able to receive by default
- Expected Outputs:
 - A notification that states what the notification is about:
 - Following a seller:
 - Shows newly posted products, updates to products
 - Their current reservation or request:

- Shows if it has been accepted or denied
 - Shows updates to the current state of their transaction
- Direct messages
- Ratings and reviews
- Process:
 - The user gets a notification regarding product updates, direct messages, ratings and reviews made about them or their products, and update notifications regarding their current reservations
 - The user views the notification

7.6.2 View Notifications

Verification

This functionality is verified when logged in users are able to view a list of their notifications in the last 60 days

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - Users are able to see a list of their notifications within the last 60 days
- Invalid cases:
 - Notifications aren't showing up in the list

Type of Test to be Conducted

Interface Testing, System Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has a "2" priority because it is the requirement that depends on the previously stated requirement. This requirement also has dependencies (7.6.1).

Test Execution Steps:

- Inputs:
 - The user that receives notifications because they follow a seller, and have a current reservation or request
- Expected Outputs:
 - A view that shows what the notification is about:
 - Following a seller:
 - Shows newly posted products, updates to products
 - Have a current reservation or request:
 - Shows if it has been accepted or denied
 - Shows updates to the current state of their transaction
- Process:

- The user selects the notification that they have received
- The user views the notification

7.6.3 Opt-In to Receive Notifications

Verification

This functionality is verified when logged in users are able to opt into getting notifications into receiving notifications anytime on the settings page

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The users have the ability to opt in to receiving notifications
- Invalid cases:
 - The system won't let the user opt in to receiving notifications

Type of Test to be Conducted

System Testing, Security Testing

Priority: (High) 1 - 10 (Low)

3 - This requirement has a "3" priority because it depends on other requirements to be tested first.

Test Execution Steps:

- Inputs:
 - Notifications that users are only able to get for following a seller
 - Product update, newly posted products
- Expected Outputs:
 - The user has now opted-in to receive "followed seller" notifications and the default notifications.
- Process:
 - The user opts-in to receive "followed seller" notifications
 - There is a newly posted product from a seller they follow or an update to a posted product
 - The user gets a notification regarding newly posted products or an update to a product
 - The user views the notification

7.6.4 Opt to Not Receive Notifications

Verification

This functionality is verified when logged in users are able opt-out of receiving notifications

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - At any time, users are able to opt-out in receiveing product update notifications, direct message notifications, ratings and reviews made about them or their products, and notifications from sellers that they follow
- Invalid cases:
 - Even after the user opts out of notifications, the notifications still show up
 - The user is unable to opt-out in the settings

Type of Test to be Conducted

System Testing, Security Testing

Priority: (High) 1 - 10 (Low)

4 - This requirement has a “4” priority because it depends on other requirements to be tested first.

Test Execution Steps:

- Inputs:
 - Default notifications that users are able to receive and notifications that they have opted-in to receive
- Expected Outputs:
 - The user has now opted out of receiving default notifications and notifications that they have opted-in to receive.
- Process:
 - The user opts out to receive default notifications and “followed seller” notifications
 - There is a notification regarding product updates, direct messages, ratings and reviews made about them or their products, and update notifications regarding their current reservations

7.6.5 Deleting Notifications

Verification

This functionality is verified when logged in users are able delete notifications from their list

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The user has the ability to delete notifications
 - Any notifications older than 60 days will be deleted by the system
- Invalid cases:
 - There is no option for the user to delete notifications
 - The system doesn't delete the notifications after 60 days

Type of Test to be Conducted

System testing, Interface testing

Priority: (High) 1 - 10 (Low)

5 - This requirement has the lowest priority since it depends on all the other requirements to be tested first.

Test Execution Steps:

- Inputs:
 - Notifications that the user has received
- Expected Outputs:
 - The notifications that have been selected for deletion have been deleted and are no longer viewable
- Process:
 - The user selects the received notifications to delete
 - The user saves the edit

7.7 Transactions View

Timeframe

2/28/2022 - 3/5/2022

7.7.1 View All Product Reservations and Request Fulfillment Bids

Verification

This functionality is verified when logged in users are able to view relevant information regarding their product reservation and requests

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:

- Users are able to make product reservations given that their reservation amount is less than or equal to the amount the seller has
- Users are able to post their own request for a specific product along with the amount they need
- All the reservation and request a user makes will be stored in a list
- Users will be able to see the status of their reservation and request
- Invalid cases:
 - Users are unable to post a request
 - Users are unable to reserve a product
 - Users are able to reserve an amount greater than the stock the seller has

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since the other requirements for this feature depend on it to be fully functional before they can be tested.

Test Execution Steps:

- Inputs:
 - An accepted product reservation request or product request fulfillment bid
- Expected Outputs:
 - A view that shows all of the information regarding the request.
- Process:
 - The user selects the product request
 - The user views the product reservation request and sees all of the information regarding the request

7.7.2 Edit Product Reservations and Request Fulfillment Bids

Verification

This functionality is verified when logged in users are able to edit or cancel the reservation and requests

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - Users are able to edit the reservation and request
- Invalid cases:
 - Users are unable to edit the reservation and request

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has a “2” priority because it is the requirement that depends on the previously stated requirement. This requirement also has dependencies (7.7.1).

Test Execution Steps:

- Inputs:
 - A product reservation request or request fulfillment bid that has been accepted
- Expected Outputs:
 - An updated product reservation request or request fulfillment that nows shows the newly inputted information
- Process:
 - The user selects and views their product request
 - The user updates the information fields that they want to change
 - The user saves their edit

7.7.3 Open Direct Chat to Other Party

Verification

This functionality is verified when logged in users are able to chat to with other users

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - There is a button that will allow users to open a chat with each other
- Invalid cases:
 - Users are unable to chat with each other

Type of Test to be Conducted

Unit Testing, System Testing

Priority: (High) 1 - 10 (Low)

3 - This requirement has the lowest priority because it depends on requirement 7.7.1 but does not need to be tested earlier than requirement 7.7.2.

Test Execution Steps:

- Inputs:
 - A product reservation request or request fulfillment bid that has been accepted
- Expected Outputs:

- Opens a chat between the buyer and seller for a product request
- Process:
 - The user selects and views their product request
 - The user selects to open the chat with the other party

7.8 Meeting Point Directions

Timeframe

3/14/2022 - 3/19/2022

7.8.1 View Street Directions to the Meeting Point Location

Verification

This functionality is verified when logged in users are able to view the meeting location once the transaction has been confirmed

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - Users will be able to see the meeting location address and be able to receive directions to the meeting point once the transaction has been confirmed
- Invalid cases:
 - The meeting location address is not showing up even after the transaction has been confirmed
 - Meeting location is visible before a transaction has been confirmed

Type of Test to be Conducted

Interface Testing, Security Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since the other requirements for this feature depend on it to be fully functional before they can be tested.

Test Execution Steps:

- Inputs:
 - A product reservation request or request fulfillment bid that is ready to be picked up.
- Expected Outputs:
 - Access to a map showing street directions from a location of their choosing to the seller's meetup location.
- Process:

- The user selects and views their product request that is ready to be picked up
- The user inputs the location that they want to use as the origin point
 - Inputted the desired location
 - Current location
- The map is updated to show the street locations to the meet-up location from their desired origin point

7.8.2 Input Origin Location

Verification

This functionality is verified when logged in users have a designated spot to either choose their current location or an address

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - There is a designated spot for the user's current location or an address to be inputted
 - If there is an error in the inputted address then the system will show an error
- Invalid cases:
 - There is not a designated spot for the user to add a location

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has the lowest priority since it does not depend on the previous requirement (7.8.1).

Test Execution Steps:

- Inputs:
 - The location that the user wants to use as the origin location:
 - Desired inputted location to be used as the origin location
 - The current location of the user
- Expected Outputs:
 - The origin location is updated to be the desired inputted location or the user's current location.
- Process:
 - The user inputs the location that they want to use as their origin location

7.9 Following Sellers

Timeframe

3/21/2022 - 3/26/2022

7.9.1 Follow Sellers

Verification

This functionality is verified when logged in users are able able to follow sellers

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The user is able to follow a seller
- Invalid cases:
 - The user is unable to follow the seller

Type of Test to be Conducted

System Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since the other requirements for this feature depend on it to be fully functional before they can be tested.

Test Execution Steps:

- Inputs:
 - The user selects to follow a seller
- Expected Outputs:
 - The seller is added to the user's following list.
- Process:
 - The user selects to follow a seller

7.9.2 Unfollow Sellers

Verification

This functionality is verified when logged in users are able to unfollow sellers

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:

- The user is able to successfully unfollow the seller
- Invalid cases:
 - The user is unable to unfollow the seller

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has a priority of “2” since it depends on requirement 7.9.2 to be completed first and the next requirement does not depend on this one.

Test Execution Steps:

- Inputs:
 - The user selects to unfollow a seller
- Expected Outputs:
 - The seller is removed from the user’s following list.
- Process:
 - The user selects the seller that they want to unfollow
 - The user saves the edit

7.9.3 View Following List

Verification

This functionality is verified when logged in users are able to view a list of people they are following

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The user is able to see all of the people they are currently following
 - When the user selects the seller in the list, it brings them to the seller’s profile
- Invalid cases:
 - The user can’t see any or only a few of the people the are following
 - When the user selects the seller in the list, it doesn’t bring the user to the seller’s profile

Type of Test to be Conducted

Interface Testing

Priority: (High) 1 - 10 (Low)

3 - This requirement has the lowest priority since it only depends on requirement 7.9.1 to be completed first and it does not have to be tested earlier than requirement 7.9.2.

Test Execution Steps:

- Inputs:
 - A user's following list
- Expected Outputs:
 - A view that shows all of the sellers the user is following.
- Process:
 - The user selects to view their following list

7.10 Rating and Review

Timeframe

4/4/2022 - 4/9/2022

7.10.1 Review and Rating From a 1-5 Star Scale

Verification

This functionality is verified when logged in users are able to rate each other as long as there is a least one transaction between them

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The users are able to rate and review each other once at least one transaction has been completed
 - The user is able to edit their review and rating
- Invalid cases:
 - The user is able to rate and review a user without completing any transaction with each other
 - The user is unable to rate and review once a transaction has been done
 - The user is unable to edit their review and rating

Type of Test to be Conducted

Interface Testing, System Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since the other requirements for this feature depend on it to be fully functional before they can be tested.

Test Execution Steps:

- Inputs:
 - There is at least one transaction between both parties

- The user is able to post a review containing UTC-8 characters and 40 MB images
- Expected Outputs:
 - The rating and review have been posted on the product posting or user's profile.
- Process:
 - The user selects to rate and review their experience
 - The user selects the rating that they want to give from the 1-5 star scale
 - The user writes their review containing UTC-8 characters and up to 4 40 MB images
 - The user posts their rating and review

7.10.2 View Posted Ratings and Reviews

Verification

This functionality is verified when logged in users are able view ratings and review on the users profile

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The reviews and rating is viewable to the public
- Invalid cases:
 - One or more review and rating is hidden

Type of Test to be Conducted

Interface Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has the lowest priority since it depends on requirement 7.10.1 to be completed first before this requirement can be fully tested.

Test Execution Steps:

- Inputs:
 - The ratings and reviews of a user and their product
- Expected Outputs:
 - A view that shows all of the ratings and reviews of a user and their posted product.
- Process:
 - The user selects to view the user or product

7.11 User Block Feature

Timeframe

4/11/2022 - 4/16/2022

7.11.1 Block Users

Verification

This functionality is verified when logged in users are able to block each other

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The user is able to block any other user and it will be added to the list
 - Once blocked they are unable to interact with each other until the user the initiated the block unblocks the other user
- Invalid cases:
 - The users are still able to interact with each other once blocked
 - One user is unable to block a user

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since another requirement (7.11.3) for this feature depends on it to be fully functional before it can be tested.

Test Execution Steps:

- Inputs:
 - The user selects a user that they want to block
- Expected Outputs:
 - The seller is added to the user's blocked list.
- Process:
 - The user selects to a user to block

7.11.2 Unblock Users

Verification

This functionality is verified when logged in users are able to unblock a user

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The user is able to go and find a user from their blocked list and unblock them
- Invalid cases:
 - The user is unable to unblock one or more user

Type of Test to be Conducted

System Testing, Interface Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has a priority of “2” because it does not depend on another requirement but has a dependency (7.11.3).

Test Execution Steps:

- Inputs:
 - The user selects a user that they want to unblock from their blocked list
- Expected Outputs:
 - The seller is removed from the user’s blocked list.
- Process:
 - The user selects the seller that they want to unblock
 - The user saves the edit

7.11.3 View Block List

Verification

This functionality is verified when logged in users are able view and access a list of users they have blocked

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The users are able to view a list of users the have blocked
- Invalid cases:
 - The users are unable to view one or more users that they have blocked

Type of Test to be Conducted

Interface Testing

Priority: (High) 1 - 10 (Low)

3 - This requirement has the lowest priority out of all the current function's requirements because it depends on the previous two requirements (7.11.1 and 7.11.2) to be functional.

Test Execution Steps:

- Inputs:
 - A user's blocked list
- Expected Outputs:
 - Users are able to view that all of the users that they have blocked.
- Process:
 - The user selects to view their blocked list

7.12 Chat Feature

Timeframe

4/18/2022 - 4/23/2022

7.12.1 Send a Chat Request

Verification

This functionality is verified when logged in users are able to send chat requests to any user

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - Users have the ability to send a chat request to another user
- Invalid cases:
 - Users are unable to send a chat request to another user

Type of Test to be Conducted

System Testing

Priority: (High) 1 - 10 (Low)

1 - This requirement has the highest priority since the other requirements for this feature depend on it to be fully functional before they can be tested.

Test Execution Steps:

- Inputs:
 - The user that they want to open a chat with
- Expected Outputs:

- A request has been sent to the user that they want to open a chat with
- Process:
 - The user selects another user that they want to chat with
 - The user selects to send a request to open a chat

7.12.2 Accept or Decline a Chat Request

Verification

This functionality is verified when logged in users receive a chat request and is able to accept and decline it.

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - The user that is receiving the chat request has the ability to accept or decline it
 - Before users can chat with each other the user that is receiving the request must first accept the request
- Invalid cases:
 - The user is unable to accept or decline a requisition
 - Users are able to chat with each other before the user receiving the request accepts it

Type of Test to be Conducted

System Testing

Priority: (High) 1 - 10 (Low)

2 - This requirement has a priority of "2" since it depends on requirement 7.12.1 to function.

Test Execution Steps:

- Inputs:
 - A chat request that has been received
- Expected Outputs:
 - Notification sent to the other user stating whether their request has been accepted or denied
 - If it was accepted then the chat will be open
 - If it was declined then the chat will remain closed
- Process:
 - The user receives the chat request and views it
 - The user selects to accept or deny the request

7.12.3 Communicate With Users Using the Chat

Verification

This functionality is verified when logged in users are able talk to each other using the chat feature

Validation

This functionality is validated when testing for the following valid and invalid cases

- Valid Cases:
 - Users can send instant messages to each other
 - UTC-8 characters
 - 40 MB images
- Invalid cases:
 - Users are unable to send messages to each other
 - UTC-8 characters
 - 40 MB images

Type of Test to be Conducted

Unit Testing, System Testing

Priority: (High) 1 - 10 (Low)

3 - This requirement has the lowest priority out of the other requirements for this feature because it depends on them (7.12.1 and 7.12.2) to function.

Test Execution Steps:

- Inputs:
 - A message that contains or does not contain UTC-8 characters and 40 MB images
- Expected Outputs:
 - The typed out message or image is sent to the other user
- Process:
 - The user types out the message or uploads the image
 - The user selects to send the message or image