**Name**

Joshua Turner

**Student Number**

S0258441

**Program**

Bachelor of Information Technology

**Course Code**

COIT11134

**Assignment**

Assessment 2

**Task**

Iterate on the Operations Reporting System program from Asst. 1. Adding   
data retention capabilities, data tracking and general improvements.

**Word Count**

1703

**Lecturer**

Umapathy Venugopal

**Due Date**

1 October 2021

CQMC: Operations Recording System v2

Testing Plan

By **Joshua Turner**

**Table of Contents**

[1 Menu Screen 2](#_Toc83927096)

[2 Farm Screen 6](#_Toc83927097)

[3 Dairy Screen 11](#_Toc83927098)

[4 Batch Screen 15](#_Toc83927099)

[5 Delivery Screen 20](#_Toc83927100)

[6 General Tests 25](#_Toc83927101)

# Menu Screen

Graphical user interface

Description automatically generated

Figure 1.1 Main menu screen.

**Exceptions**

Exceptions should be thrown if the program cannot load the data from each file. These exceptions should be caught, and the program should continue to run. Similar exceptions will be displayed if the data is saved, and the relevant file cannot be accessed. If invalid data is stored in the data files, then similar exceptions will also be displayed. These exceptions can be seen in figures 1.5 to 1.8.

**Buttons**

1. Confirm the “Batches” button works.  
   **Output:** Primary window should no longer be visible. Then the “Batch” window should become visible.
2. Confirm the “Deliveries” button works.  
   **Output:** Primary window should no longer be visible. Then the “Delivery” window should become visible.
3. Confirm the “Farms” button works.  
   **Output:** Primary window should no longer be visible. Then the “Farm” window should become visible.
4. Confirm the “Dairies” button works.  
   **Output:** Primary window should no longer be visible. Then the “Dairy” window should become visible.
5. Confirm the “Save” button works.  
   **Output:** An information dialog should be displayed to the inform the user that the program has save successfully.
6. Confirm the “Exit” button works.  
   **Output:** A confirmation dialog should be displayed. This should give the user to option to: save and exit, exit without saving, and cancelling the closure.
7. Confirm the “About” button works.  
   **Output:** An information dialog should be displayed with details including: developer name, student number, program version, and version date.
8. Confirm the window exit button (red ‘x’ button (Windows)/red button (Mac)) works.  
   **Output:** A confirmation dialog should be displayed. This should give the user to option to: save and exit, exit without saving, and cancelling the closure.

Graphical user interface, text, application

Description automatically generated

Figure 1.2 About dialog window.

Graphical user interface, text, application

Description automatically generated

Figure 1.3 Exit confirmation dialog window.

Graphical user interface, text, application, email

Description automatically generated

Figure 1.4 Successful save dialog window.

Graphical user interface, text, application, email

Description automatically generated

Figure 1.5 Batch data file unable to be read exception dialog

Graphical user interface, text, application, email

Description automatically generated

Figure 1.6 Dairy data file unable to be read exception dialog.

Graphical user interface, text, application, email

Description automatically generated

Figure 1.7 Delivery data file unable to be read exception dialog.

Graphical user interface, text, application, email

Description automatically generated

Figure 1.8 Farm data file unable to be read exception dialog.

# Farm Screen

Graphical user interface, text, application

Description automatically generated

Figure 2.1 Farm screen with no data entered.

**Input**

When clicking the ‘Add’ button an input dialog box should be display, as seen in figure 2.2

Graphical user interface

Description automatically generated

Figure 2.2 Farm input dialog window.

The add button should be disabled until all input fields have had data entered, as seen in figure 2.2. Figures 2.3 shows what should occur if the user enters a negative value in either of the bank input fields. Figure 2.4 show the exception dialog that should appear if the user enters a non-numeric character.

Graphical user interface, text, application, email

Description automatically generated

Figure 2.3 negative value entered error message.

Graphical user interface, text, application, email

Description automatically generated

Figure 2.4 non-numeric character exception dialog.

Once errors have been cleared the input dialog should remain open for corrections to be made by the user.

**Filter Selections**

If no farms have been entered, then the farm combo box should display that no farms have been entered, as seen in figure 2.5.

Graphical user interface, text, application

Description automatically generated

Figure 2.5 No farms entered, filter combo box.

Once Farms have been entered then the farm name should appear in the combo as seen in figure 2.6. If no farm is selected the user clicks filter then an error should be displayed, seen in figure 2.7.

Graphical user interface, table, Excel

Description automatically generated

Figure 2.6 Farms in combo box.

Graphical user interface, application

Description automatically generated

Figure 2.7 No farms selected to filter.

**Test Data**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Farm name** | **Address** | **Post code** | **ABN** | **Phone** | **Email** | **BSB** | **Bank Acc** |
| Open Pastures | 34 Farm Rd, Land | 2034 | 46 846 456 465 | 02 0841 8461 | open.pastures@gmail.com | 465894 | 41320846 |
| Valley Acres | 8554 Valley Rd, The Valley | 2316 | 51 894 351 321 | 0421 846 135 | john\_mary23@bigpond.com | 213158 | 401203151 |
| Prime Livestock | 954 Eight Mile Rd, Woop Woop | 2103 | 54 801 103 013 | 02 8464 6654 | admin@primelivestock.com.au | 841211 | 51616511 |

The above data should all be entered without error.

Graphical user interface, application, table

Description automatically generated

Figure 2.8 Farm window with data entered.

All entered data should be display in the output table as per Figure 2.7. Farm should appear in alphabetical order by name.

# Dairy Screen

Graphical user interface, text, application

Description automatically generated

Figure 3.1 Dairy screen with no data entered.

**Input**

When clicking the ‘Add’ button an input dialog box should be display, as seen in figure 3.2.

Graphical user interface

Description automatically generated

Figure 3.2 Dairy input dialog window.

The add button should be disabled until all input fields have had data entered, as seen in figure 3.2. Figures 3.3 shows what should occur if the user enters a negative value in the account reference field. Figure 3.4 show the exception dialog that should appear if the user enters a non-numeric character.

Graphical user interface, text, application, email

Description automatically generated

Figure 3.3 negative value entered error message.

Graphical user interface, text, application, email

Description automatically generated

Figure 3.4 non-numeric character exception dialog.

Once errors have been cleared the input dialog should remain open for corrections to be made by the user.

**Filter Selections**

If no dairies have been entered, then the dairy combo box should display that no dairies have been entered, as seen in figure 3.5.

Graphical user interface, text, application

Description automatically generated

Figure 3.5 No dairy entered, filter combo box.

Once Dairies have been entered then the Dairy’s name should appear in the combo as seen in figure 3.6. If no farm is selected the user clicks filter then an error should be displayed, seen in figure 3.7.

A screenshot of a computer

Description automatically generated

Figure 3.6 Filter combo box with dairies entered.

Graphical user interface, application

Description automatically generated

Figure 3.7 No dairies selected to filter.

**Test Data**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Dairy name** | **Address** | **Post code** | **ABN** | **Phone** | **Email** | **Account Ref** |
| Super Milk | 45 City Lane, Sydney | 2020 | 54 646 645 152 | 02 5412 6841 | [accounts@supermilk.com.au](mailto:accounts@supermilk.com.au) | 5136 |
| Eco Dairy | 103 Enterprise Court, Penrith | 2013 | 21 642 132 541 | 02 8749 5461 | [reception@ecodairy.com.au](mailto:reception@ecodairy.com.au) | 1243 |

The above results should all be entered without error.

Graphical user interface, application, table, Excel

Description automatically generated

Figure 3.8 Dairy window with data entered.

All entered data should be display in the output table as per figure 3.8. The dairies should be sorted by alphabetical order by name.

# Batch Screen

Graphical user interface, text

Description automatically generated

Figure 4.1 Batch screen with no data entered.

**Input Fields**

Clicking the ‘Add” button should display an input dialog box, seen in figure 4.2; however, if no farms have been entered then an error message should be displayed, as seen in figure 4.4. The input dialog should have two combo boxes populated with the farm options and the test result options, as seen in figure 4.3.

Graphical user interface, application

Description automatically generated

Figure 4.2 Batch input dialog window.

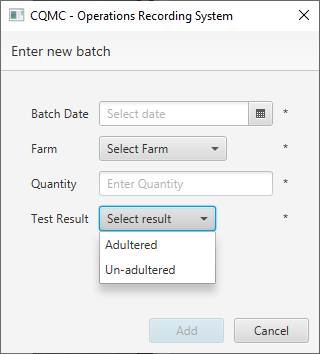
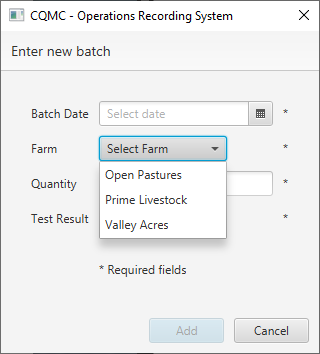


Figure 4.3 Batch input combo boxes.

Graphical user interface, application

Description automatically generated

Figure 4.4 No farms entered error dialog.

The ‘Add’ button should be disabled until data has been entered in all fields. If invalid data has been entered in the quantity field, then errors should be displayed as per figure 4.5 and 4.6.

Graphical user interface, text, application, email

Description automatically generated

Figure 4.5 Negative value entered in the quantity field.

Graphical user interface, text, application

Description automatically generated

Figure 4.6 non-numeric character entered in the quantity field.

**Batch Filters**

The filter selection fields consist of a date selector and farm combo box. The combo box should be populated with the farms that have already been entered, as per figure 4.7. If no farms have been entered the combo box should indicate that no farms have been entered.

Graphical user interface

Description automatically generated

Figure 4.7 Batch filter combo box with farms entered.

**Test Data**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Farm** | **Quantity** | **Test Result** |
| 29/09/2021 | Open Pastures | 80 | Adultered |
| 29/09/2021 | Valley Acres | 250 | Un-adultered |
| 29/09/2021 | Prime Livestock | 225.5 | Un-adultered |
| 29/09/2021 | Open Pastures | 130 | Un-adultered |
| 30/09/2021 | Prime Livestock | 154 | Adultered |
| 30/09/2021 | Valley Acres | 200 | Un-adultered |
| 30/09/2021 | Valley Acres | 125 | Un-adultered |
| 30/09/2021 | Open Pastures | 175.5 | Un-adultered |

The above data should all be entered without error.

Table

Description automatically generated

Figure 4.8 Batch window with data entered.

All entered batches should be displayed in the output table as per Figure 4.7. The total, average, lowest and highest quantities should be calculated and displayed in their relevant fields. Batches should be sorted is chronological order.

# Delivery Screen

Graphical user interface, text

Description automatically generated

Figure 5.1 Delivery screen with no data entered.

The quantity of milk that is available for delivery should be displayed next the add button.

**Input Fields**

Clicking the ‘Add” button should display an input dialog box, seen in figure 5.2; however, if no dairies have been entered then an error message should be displayed, as seen in figure 5.4. The input dialog should have a combo box populated with the dairy options, as seen in figure 5.3. It should also display the available quantity for delivery next to the quantity field.

Graphical user interface, application

Description automatically generated

Figure 5.2 Delivery input dialog window.

Graphical user interface, application

Description automatically generated

Figure 5.3 Batch input combo boxes.

Graphical user interface, text, application

Description automatically generated

Figure 5.4 No dairies entered error dialog,

The ‘Add’ button should be disabled until data has been entered in all fields. If invalid data has been entered in the quantity field, then errors should be displayed as per figure 5.5 and 5.6.

Graphical user interface, text, application, email

Description automatically generated

Figure 5.5 Negative value entered in the quantity field.

Graphical user interface, text, application

Description automatically generated

Figure 5.6 non-numeric character entered in the quantity field.

**Delivery Filters**

The filter selection fields consist of a date selector and dairy combo box. The combo box should be populated with the dairies that have already been entered, as per figure 5.7. If no dairies have been entered the combo box should indicate that no dairies have been entered.

Graphical user interface, text

Description automatically generated

Figure 5.7 Batch filter combo box with farms entered.

**Test Data**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Dairy** | **Quantity** | **Tanker Registration** |
| 30/09/2021 | Eco Dairy | 150 | ESF 848 |
| 30/09/2021 | Super Milk | 150 | QEW 874 |
| 30/09/2021 | Eco Dairy | 200 | WEF 134 |
| 01/10/2021 | Eco Dairy | 200 | WEF 134 |
| 01/10/2021 | Super Milk | 150 | WFD 136 |
| 01/10/2021 | Super Milk | 200 | QDW 468 |

The above data should all be entered without error.

Graphical user interface

Description automatically generated with medium confidence

Figure 5.8 Deliveries window with data entered.

All entered deliveries should be displayed in the output table as per Figure 5.8. The total, average, lowest and highest quantities should be calculated and displayed in their relevant fields. Delivery should be sorted is chronological order. The available quantity should now be less as deliveries have been entered.

# General Tests

The tests below are common across all windows.

**Close Buttons (‘x’ button (Windows), red button (Mac))**

When the close button in the corner of the window is pressed a confirmation dialog should be displayed. This should give the user to option to: save and exit, exit without saving, and cancelling the closure.

**Clear Buttons**

The clear buttons reset the filter inputs and re-initialise the output fields to display all objects.

**Menu Buttons**

The menu button should return the user to the main meu screen

**Exit Buttons**

Like the close button in the corner of the window, when the exit button is pressed a confirmation dialog should be displayed. This should give the user to option to: save and exit, exit without saving, and cancelling the closure.