Sprint 2 Quality Review

Distinction Task 73D

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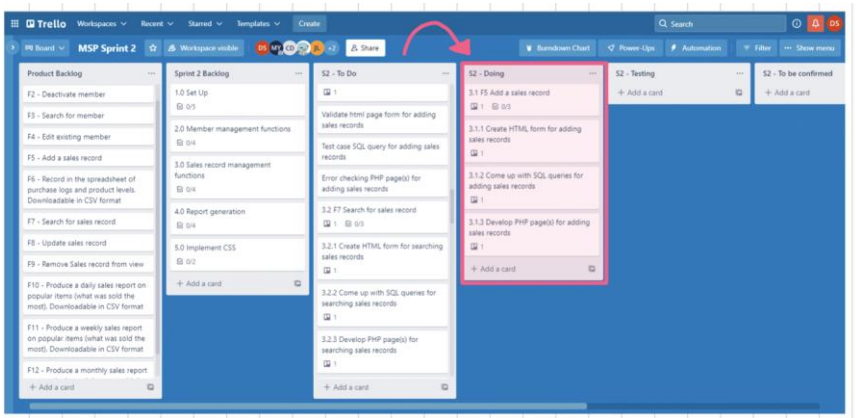
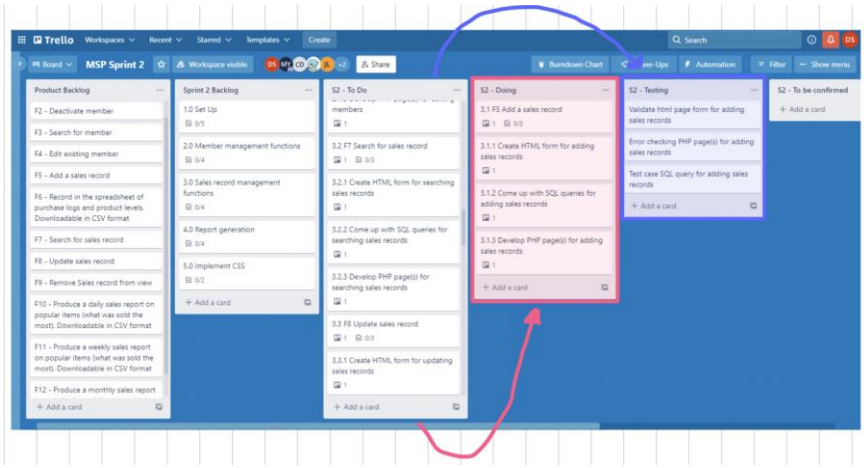
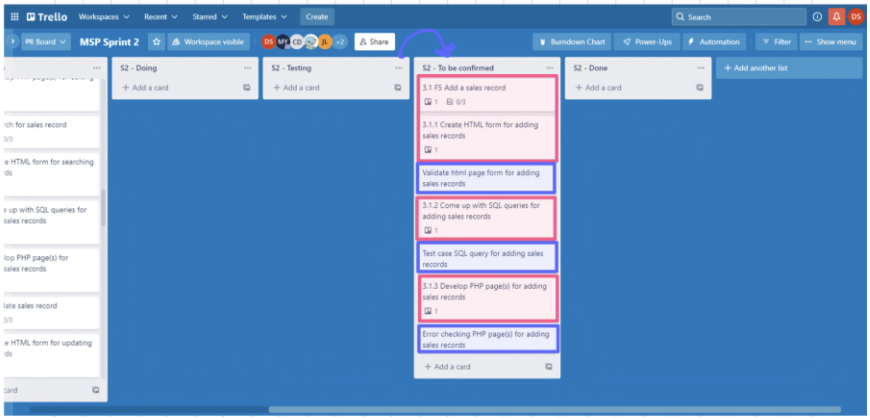
Tutorial: Tuesday 12:30 Hawthorn EN310

Quality review activities

Trello board monitoring task completion

Trello board	Figure name
	Figure 1 Starting the development of backlog item
	Figure 2 continuing development and testing as development
	Figure 3 Both development and testing have been completed by the developer now project manager has to sign document completion by moving to the done column.

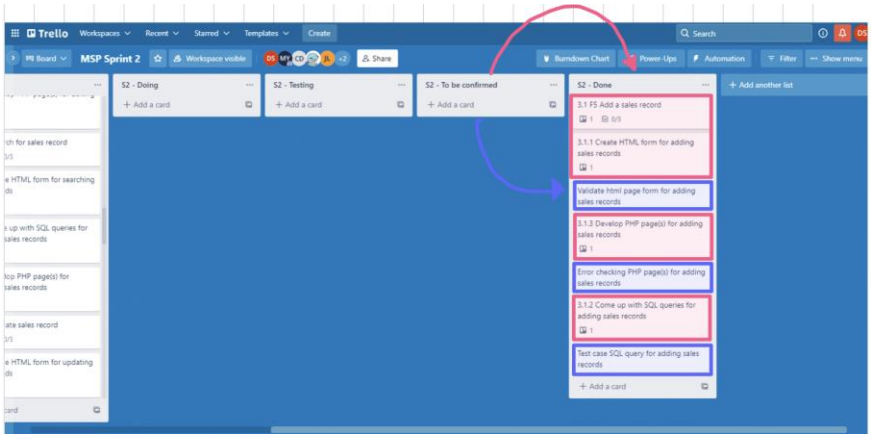
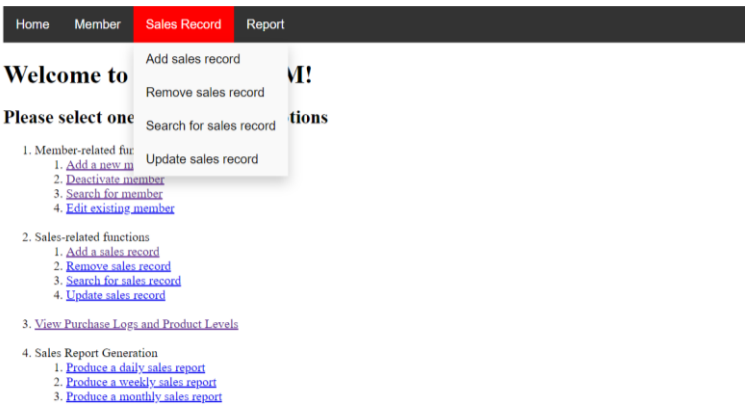


Figure 4 Both tests have been confirmed to be complete

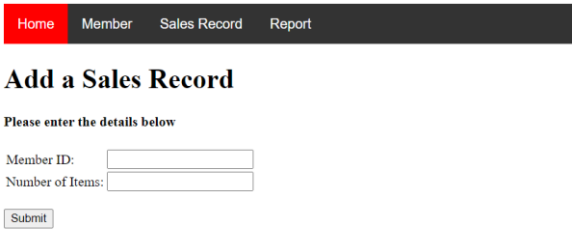
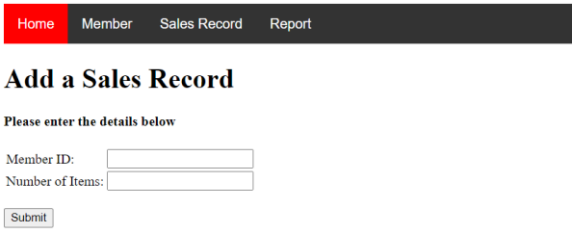
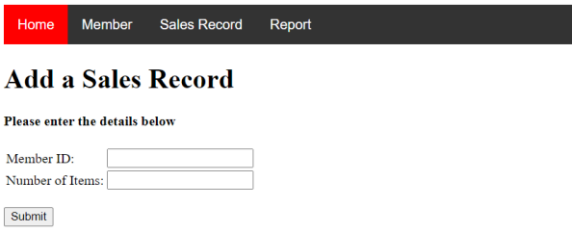
Evidence of quality review

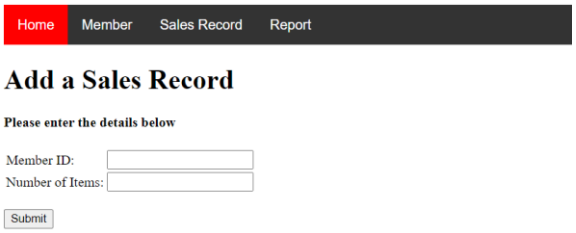
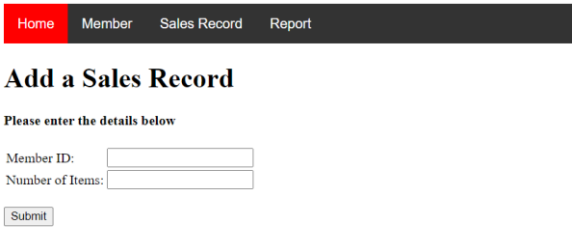
The testing method which was implemented was error testing which was implemented in a test case. These test cases were manually tested by inputting a certain value and then determining if the output matched the expected output. This testing was done as a feature of the backlog items was implemented.



Task 1: *Validate HTML page form for adding sales records*

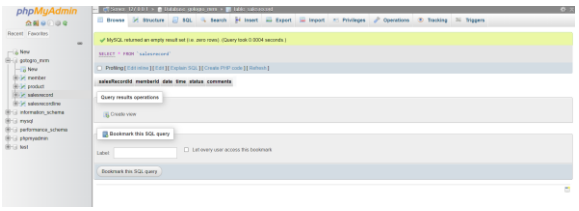
Manually validating the HTML code was done here by seeing after pressing the Add sales records tab in the header bar that the add sales record would appear with the matching these 5 expected outputs to the outputs given. Furthermore, after doing this error testing it was concluded the expected outputs were returned for this task has 0% errors in its code hence passes the quality metric thresh hold. This is evident in the following results below.

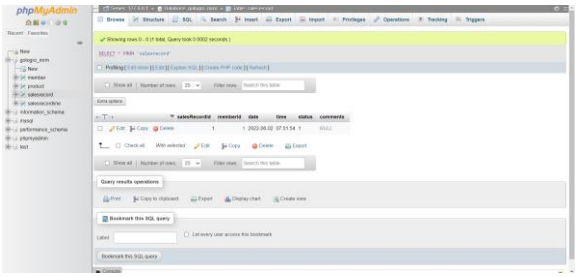
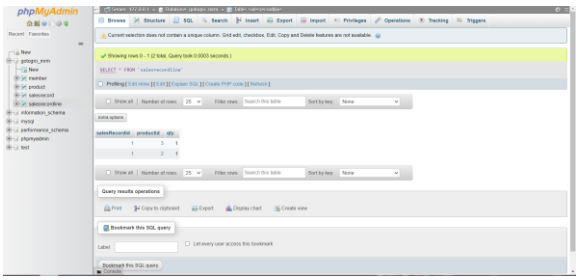
Expected out	**Evidence of output**
A heading element H1 has to appear with the text output “Add a Sales Record”	 The output is what was expected hence **PASS**
A heading element H4 appears with the text output “Please enter the details below”	 The output is what was expected hence **PASS**
A form element appears with the label Member ID	 The output is what was expected hence **PASS**

A form element appears with the label number of items	 The output is what was expected hence **PASS**
Submit button	 The output is as expected hence **PASS**

Task 2: *Test case SQL query for adding sales records*

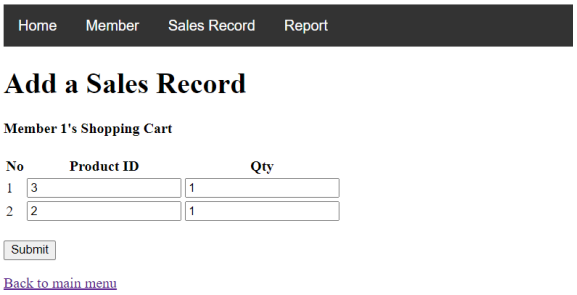
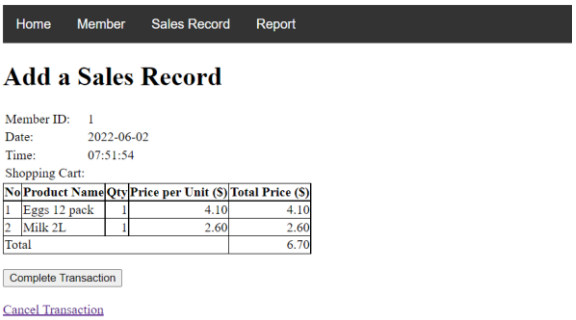
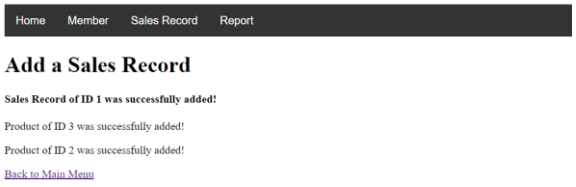
Testing if SQL query gave no errors was by validating if data inputted into the HTML that a database has been created by the SQL query. Additionally, the database can be updated with the results entered in the HTML form. Fulfilling these two expected outputs demonstrate that the SQL is functional and working with 0% of errors for overall test cases.

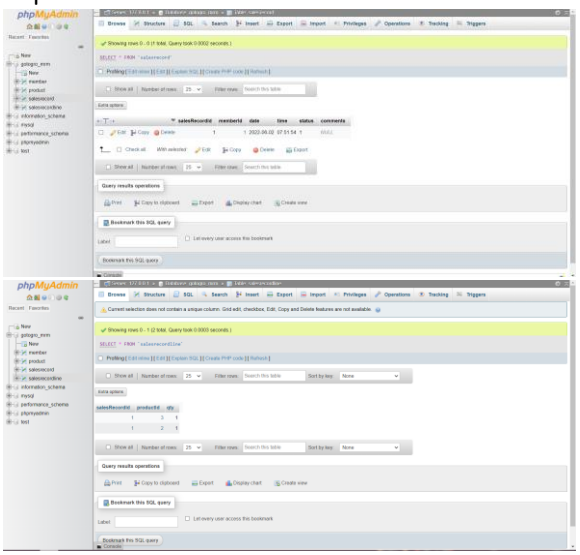
Expected out	**Evidence of output**
Database of the gotrogro_mrm and database table of sales record and sales record line is created in PHP admin, the SQL query.	 The output is what was expected hence **PASS**
This table can be updated by entering results from the HTML forms	Entering sales record data is what should be returned in database tables.

	Home Member Sales Record Report **Add a Sales Record** **Member 1's Shopping Cart** No Product ID Qty 1 3 1 2 2 1 Submit Back to main menu Output for sales record table demonstrated a sales record was imputed which was the expected value hence **PASS.**  The output of the sales record line table returns all data of the sales record which matches the inputted and expected value, which demonstrates that the database can be updated. Therefore **PASS** test cases. 

Task 3: *Error checking PHP page(s) for adding sales records*

To test whether PHP code will work successfully and give a number of errors less than 10% for overall manually tested test cases thus confirming if the data from the HTML is able to be transferred and returned to the sales record table and sales record line table of the gotogro_mrm database. Successfully demonstrating this shows that PHP is able to flow data between the HTML form to the table. However, it noted task 2 partially tested this as it was demonstrated there that data entered from the HTML can be seen returned into the database.

Expected out	Evidence of output
Checking if data can be transferred into database tables sales records and sales record lines.	Entering in Which member  Inputting data to the HTML form  After submitting data  Completing the transaction to finally commit data to a database which is validated with a success message  This data appears in the sales record line table as well as the record of a

	sales record being created is inputted into the sales record table.  The output is what was expected hence **PASS**

Report and comment quality review

What is the quality achieved:

The quality achieved for the backlog item F5 add sales record was to measure the number of errors in overall test cases which was done manually by testing the outputs to match the expected output. Which was given a thresh hold value of less than 10% of errors. As seen above for all three tasks the percentage of errors is below the 10% thresh hold. As all three tasks have returned with no errors thus 0% of errors for overall test cases as all expected outputs from manually testing have occurred. Therefore it is demonstrated that the quality has been achieved due to all test cases passing the given quality metric threshold value.

Does the sprint backlog item satisfy the quality definition in Distinction task 71D? Why? Why not:

After completing the quality testing tasks of error testing and passing the quality assurance metric thresh-hold value of 10%> errors for over test cases ultimately satisfies the quality definition of functional suitability and functional completeness. As stated before functional suitability is the degree to which the product provides features to the standard and conditions specified by the client. Which is evidently demonstrated here as the client has specified that the software they requested must be digital record management software to replace their paper-based system. Hence for this record managing software where to work, it must not have any errors which don't enable the web application to run

and be able to create new sales records. Therefore as these errors were tested for and it did not appear for the add new sales record backlog item and its functions work therefore satisfying the functional suitability. In addition to this, it also adheres to functional completeness, as it enables one of the main features of the web application to be completed and working.

Reflection:

Positive:
All testing worked well as all developers were able to as all test cases were able to pass in the first go. The manual testing for errors also was quicker and easier to develop and demonstrate as it was just testing if the HMTL was outputting correctly, the PHP transferred the data entered into the form into the sales record database table. As well the query also created a database and enable the database to be updated.

Negative:
Generally, everything about testing this backlog item works well. As all case test cases passed on the first go, using the manually testing method for errors. However, to be critical using manually testing for test cases was useful and helped test code before confirming if the backlog item was complete, in a faster approach as test cases do not have to be programmed. However, it cannot for certain be confirmed the elimination of these errors in the code, which can arise in another situation when the web application is being demonstrated in front of the client or during the client's use of the product. Therefore there is a certain amount of risk in implementing this manual errors cases testing method. Hence therefore in the future, the method of testing can be improved by also creating test cases code as this would help properly determine where the errors especially the method of testing manually looking for errors as it does help to know that a certain output did not occur but it doesn't give a specific location in the code where the issue is. Therefore this can be thought of when completing another sprint.

Image citation

FDA, F., 2022. *A Step-by-Step Guide to Quality System Remediation*. [online] Thefdagroup.com. Available at: <https://www.thefdagroup.com/blog/a-step-by-step-guide-to-quality-system-remediation> [Accessed 2 June 2022].