



Malayan Colleges Laguna  
A MAPÚA SCHOOL

REVISION NO.: 00  
REVISION DATE: May 10, 2016

## DAILY JOURNAL

### IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	4/11/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Finished Reports and Excel, Improvements, Documentation	SHIFT/TIME	8:27 AM to 5:47 PM

During the holy week holidays, even though I was not able to get permission from HR to work, I was able to finish all the initial implementation for the crystal reports and export to Excel for all the filtering options. I presented my progress in the morning in a meeting I had with my supervisor and I showed him the progress on my 2 modules. He had some suggestions which I took note of and some functionality that he wants me to add. He also told me to try and start the development documentation and he will check my progress by Friday afternoon. From there we talked about the training plan which would be composed of software development and technical documentation. After the meeting, I went to school to get my pre-employment documents signed by Sir Ilao. I was only able to get them signed and completed today as it was only signed on-site by my host company last April 5, 2023, just before the holy week holidays.

In the afternoon I implemented the additional functionality of saving and retrieving the settings of the user in the registry so that their last selected values will be saved and loaded on runtime. Furthermore, I was able to implement the styling suggestions of Sir Allan on my export to Excel implementation to reduce code redundancy. Sir Allan also told me that if my performance and attitude are good in this practicum, he might recommend me if I decide to apply to iRipple after graduation as they might need developers as they are currently developing the POS for Shakey's if they are satisfied, might also convert their other businesses such as Peri-Peri.

  
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DATE	4/12/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Bug Fixes, Testing with different data, Styling of Reports	SHIFT/TIME	8:22 AM to 5:45 PM

Today I fixed most of my crystal reports and export to excel functionalities. I first verified their values and found that my query was wrong. I was checking my reports with a small data set as I forgot that this was an older system and only included fields from the years 2021 to 2023. I then tried a larger data set with records starting from 2010 up to 2023 and found that my queries returned different results from the sample forms. I first fixed my queries and then I realized that I had a bug in my code where it added the same column twice which came out with incorrect results for that column. I was able to fix these issues albeit I had a hard time and it almost took me the whole day.

Furthermore, I also finalized the styling of my crystal reports so that it is able to accommodate larger numbers. I was not able to fix the query of group by payment types as this had a different query from all the other reports. I found that the sample form was using different queries depending on the date range which I found odd. I am going to consult this tomorrow with Sir Allan, my supervisor.

Today I learned that you should always check your code with different data sets. I was fixated on trying my functionalities on a single smaller data set that I was not able to fully verify its correctness. This mistake made me waste a lot of time but I have since learned my lesson. Furthermore, I realized that when debugging you should always use tools to make your life easier. For example, having breakpoints in order to see the flow of data and logic in your code.

  
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DATE	4/13/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Bug Fixes, Main Program to developed Module Parameters	SHIFT/TIME	8:24 AM to 5:57 PM

Today I first fixed the need for administrative permissions when retrieving from and saving to the registry. Now it would always prompt the user to restart the program with admin access when the user account is not yet an admin. I now know why my supervisor had me lower the User Access Control notifications so that I am not prompted for admin access every time I run the program. Furthermore, I was also able to fix the payment type query and it now returns the correct values. Before I went on my lunch break I explored how to export a C# program into a .exe and get parameters when run.

In the afternoon I was able to have an initial implementation of the passing off parameters to a .exe file. This is needed as the main program is created in VB6, and then the needed parameters such as connection string, user data, and site data for the report module to function are given as parameters. Since I do not have access to the source code of the main program, I created my own report caller. The sequence is as follows: Main program -> get global parameters needed -> click on report -> get parameters needed for report -> pass to report -> use parameters on the report.

I still have other things to take into account but the overall idea of the process and how to do it is already present. Today I realized the hardship of working on a codebase that you did not create from scratch. This is because you do not know all the ins and out of the program and you have to conform to their standard on how to do things. This restricts your implementation and makes you think about it a lot more. Moreover, this also makes me appreciate easy-to-read and reusable code that is maintainable. This is because you are not the only one looking at that code and it needs to be easily understood and simple enough when others take a look at it.

  
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DATE	<input type="text" value="4/14/2023"/>	AREA ASSIGNMENT	<input type="text" value="B&amp;HI Segment RnD Department"/>
TASK	<input type="text" value="Bug Fixes, Refactored Code, Technical Documentation Draft"/>	SHIFT/TIME	<input type="text" value="8:27 AM to 6:03 PM"/>

Today I was able to fix the argument delimiter issue by encapsulating the arguments in double quotes. C# uses spaces as delimiters and the connection string was being cut off. Not sure if the main VB6 TX program sends these parameters with or without double quotes, will need to clarify with my supervisor.

Next, I refactored my first barter form (POS Sales Journal Summary) and moved the generating of SQL query from the report form to the database commands file. Did this to separate the logic of creating the query and getting the data from generating the report form. Furthermore, I refactored the POS Sales Journal Summary and added passing of arguments from the main program. Next, I fixed the bug of the sales-only report filter as its crystal report had incorrect terminal, site, and grand totals. Double-checked and confirmed all other filters to be having correct values.

Later in the afternoon, I created an initial draft of the technical documentation. I had a hard time as I do not have experience in creating documentation for the code that I wrote. I was not sure which parts to include and furthermore I realized that I should be documenting my code as I am writing it so that I do not have a hard time remembering the approaches and dependencies of the code that I wrote. Will get it checked by my supervisor for its correctness next time we meet.



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DATE	4/15/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Technical Documentation of Developed Module	SHIFT/TIME	8:25 AM to 5:50 PM

Today, I created documentation for the system that I developed. I started with project setup documentation. I wrote about the programs used, creating the project, the project structure, programs to install, references to add to the project, and the NuGet packages to install. This is important as a foundation of the overall project. Next, I documented how to transfer the arguments from the Main Program (Barter TX) to the module to be created.

In the afternoon I documented how to retrieve and save registry values. This is where some of the settings are stored. I included documentation on how to give and require administrator privileges to the program as it is needed to manipulate the registry. Next, I created documentation on how to read and write to the registry and use these values for the form controls. Next, I created the change site form documentation and added how to pass state from the main form and the change site form and vice versa. I also included how to get the list of sites from the database, create the site model, and site selection.

Lastly, I started the documentation on how to create crystal reports. This includes the creation of the report form, the use of the crystal report viewer, and the creation of report parameters and record models. I was not able to finish documenting this as it is one of the more difficult and complex functionalities in the module. I am starting to get hang of creating development documentation. I am learning what parts I need to include, and what parts I need to highlight such as adding text and other helpful pointers.

  
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