



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.

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|------|---|-----------------|-----------------------------|
| DATE | 5/22/2023 | AREA ASSIGNMENT | B&HI Segment RnD Department |
| TASK | Develop Point-of-Sale Auto Updater Module | SHIFT/TIME | 8:25 AM to 5:57 PM |

In the morning we had our capstone presentation which I asked for the permission from my supervisor. Today I first fixed the headers on showing the backups from which the user can restore from. Next, I finalized the design to match the form with the colors, text, and overall design language. I found it weird having to disable the form dialog design and having to use panels in order to change the overall colors of the form. Although I just did it as this was also what they were doing with the other modules. I also improved the code by interchanging the update and restore panels of the form rather than clearing all the controls.



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| DATE | 5/23/2023 | AREA ASSIGNMENT | B&HI Segment RnD Department |
| TASK | Develop Point-of-Sale Auto Updater Module | SHIFT/TIME | 8:25 AM to 5:43 PM |

In the morning I double checked the functionality of the form before my meeting with Sir Allan. I found a bug where I was backing up the new updated file rather than the file to be updated and fixed it. During the meeting I presented my progress and Sir Allan approved it. He then wanted me to improve my adding more functionality. The functionality that I added is that before the user can rollback a backup, the program gets and checks the credentials of the user. Currently the credentials are hard coded as instruction by my supervisor as I do not have access to their in house encryption implementation. Next I implemented an audit to track who restored a backup, when was the rollback done, and which backup did they restore.

After that I changed the absolute paths used in testing to relative paths when it is put in the POS folder to get it ready for production. From there I needed to run it on startup. I tried using shell:startup but it was ran before even logging in. To fix this I used task scheduler and ran the program when the user logs in. Lastly, I needed to generate an .exe file with the configuration and dlls compiled into it.. I tried publishing the project using the built in Visual Studio tool but it gives an installer, not only the exe file. So I used a package called Costura.Fody to do this.



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|------|--|-----------------|-----------------------------|
| DATE | 5/24/2023 | AREA ASSIGNMENT | B&HI Segment RnD Department |
| TASK | Develop Sync Transaction Records, Improve Auto Updater | SHIFT/TIME | 8:24 AM to 6:20 PM |

In the morning I continued working on the transaction records sync module and finalized the initial database table mappings for the headers, details, and payments of the local mdb terminal database to the MSSQL database on the server. After that I created an initial implementation by getting the id of the current terminal and using this id to fetch the records from the local database and the server for that specific terminal for a certain from and to date range. I then compared the records if there are discrepancies in the transaction ids.

In the afternoon I had a meeting with my supervisor Sir Allan. We installed and configured the needed Point-of-Sales software so that I can generate the needed sample data to be able to create the module. After that he asked for the source code of my Barter POS Auto Updater as he plans on using it on production and said that he was going to review my code. From there he told me to create a user manual for this module. This user manual includes how to setup, the features, and how to use the module. While reviewing the functionality of my auto updater module, he noticed a bug where in the module would allow the user to spawn another instance of the program. I fixed this by checking if the program is already being run as a process, and if it was, the program will not create another instance but will notify the user that it is already running.


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|------|--|-----------------|-----------------------------|
| DATE | 05/25/2023 | AREA ASSIGNMENT | B&HI Segment RnD Department |
| TASK | Student Evaluation, Finish User Manual, Fixed bugs | SHIFT/TIME | 8:27 AM to 5:46 PM |

In the morning I had my student evaluation meeting with Ma'am Rhea and Sir Allan Erasmo. I was first asked to explain details about my internship like my department tasks, and then they proceeded to converse 1 on 1 talking about my performance. After that, I continued and finished the user manual for the Barter Point-of-Sales auto-updater which includes a short introduction of the module including its functionality, how to install it, and how to use the program.

In the afternoon I first updated the auto-updater module based on the feedback of my supervisor yesterday. After the updates, I sent the updated version of the module to my supervisor after fixing the following: fixed bug of multiple program instances, changed text of notify icon on system tray, added order by to show backups in descending order, and changed POS_Update_Backup path to POS_Update_Backups.



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| DATE | 05/26/2023 | AREA ASSIGNMENT | B&HI Segment RnD Department |
| TASK | Transaction Sync Module Initial Implementation | SHIFT/TIME | 8:40 AM to 5:40 PM |

Since I am done with the barter point-of-sales terminal auto-updater, I continued with the sync of transactions on the server and the terminal module. I was able to finish the mapping of the tables for the transaction header, items, and payments which have a total of over a hundred fields in total. I then started the initial implementation of the module. I first created the form which has two date pickers to get the from and to dates of the records that need to be fetched.

From there I got the count of the records on the terminal and the server. I then compared the number of records to see if there is any difference. My idea is that if I already check for the transaction ids, it will take time as if the records were not corrupted, there would be the same amount for both. After that, I started the comparison of the transaction ids on the server if it was on the terminal. I did this by fetching both the transactions ids for the server and the terminal and checking each of the traction ids on the server if it is on the terminal, if it is not, it is recorded as a transaction that needs to be transferred.



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