

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	5/08/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Presentation, New task, Development of new functionality	SHIFT/TIME	8:24 AM to 5:40 PM

In the morning I had a meeting with Sir Allan in which I presented my progress. I showed him the update to the module specifically the notification system of terminals for supervisor authorization. I showed him the notification part that changes the color of a terminal and plays a sound. He said that it met his expectations and then assigned me a new task. Since the part of having the POS Terminal send a request to the branch server was already done. I then had to send a response back to the POS Terminal from the Branch server of the credentials entered by the supervisor.

I first started by giving full control of the POS (Terminal) and POS_Transactions (Branch Server) folders through network sharing to ensure that files can be sent and deleted. I set my PC as the branch server and my laptop as the POS terminal. Once the branch server sees that there is a request, it asks for credentials from the supervisor through a new window form. The credentials entered by the supervisor are then stored in a terminalName.auth file on the POS folder of the terminal. These credentials are then going to be used by the POS terminal to remotely authorize the task. Although I am not sure if I will be the one to implement that feature, I updated the dummy POS terminal to process the credentials.

Lastly, late in the afternoon, I went to school for a capstone project-related activity. I asked permission from my supervisor and he allowed me as I have already finished my tasks. Today I learned that even though things are tough such as juggling between my practicum and OJT, I need to push through and do my best. Complaining and waiting around won't do me any good and I need to be proactive about the situation.



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DATE	5/09/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Conceptualized and implemented own idea to module	SHIFT/TIME	8:26 AM to 5:43 PM

Today I first asked Sir Allan if he was available for a meeting about my progress and he said he will contact me once he is available in the afternoon. He told me to enhance the functionality of the module by adding what I think the user needs. At first, I didn't know what to add since I already suggested the functionality of seeing the currently logged in cashier/user of a terminal, but I then thought of a view for the transactions of a terminal for the day. This is because my supervisor wanted to show a sum of the sales, returns, and voided transactions, why not show the said records altogether if the user wants?

I started by brainstorming how to add this to the existing UI. I rearranged the elements so that there could be a link label at the bottom of the terminal group box control for "see more". I also thought of being able to filter the data and a search bar to easily search a specific record. I also thought of adding a refresh button to make sure that the records are up to date. I then put my ideas into action. I created the model and queried the data being transaction type, transaction id, cashier name, and amount due. I then used this queried data and displayed it in a data grid view. I then implemented check boxes to filter which transaction type of data to display with only displaying sales as the default option when the form loads.

Sadly, my supervisor was busy today and was not able to meet me, but I still had a productive day. Through this task I was able to think from the perspective of the user and thought of what their needs are. As a user I would want to be able to view the transactions of the terminals from the terminal monitoring module so that I can monitor their activity. Tomorrow, I plan to finish the view transactions functionality to be checked by Sir Allan on Thursday.


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Malayan Colleges Laguna
A MAPÚA SCHOOL

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DATE	5/10/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Finished conceptualized functionality development	SHIFT/TIME	8:24 AM to 5:37 PM

Today I was able to finish the view transactions functionality to be presented to Sir Allan tomorrow. In the morning I first implemented the MD5 hashing algorithm for storing the password in the auth file to be processed by the terminal which I forgot to do yesterday. My supervisor told me to use the MD5 even though it is old and not that secure in order to keep it compatible with the system since it is legacy.

Next, I continued working on the view transactions functionality. I first fixed the data grid view column widths to occupy the whole space and fixed the header names. I then added the status attribute to show the status to confirm if the transaction is valid or voided (P = Posted/Valid, V = Void). Next, I finalized the filtering function for sales, returns, void, or all transactions by changing it from checkboxes to a drop down since it is more intuitive and user-friendly. Moreover, I translated the transaction code and status to something the user can understand. For the transaction code, REL means a sale, REC means a return, while a void is either a REL or a REC as long as it has a status of V.

In the afternoon, I first added a manual refresh button to refresh the transaction records as needed by the supervisor. I then needed to implement a search function. This would allow the users to search for a specific record with a filter by a specific field. I first searched for how to filter a data grid view and found the row filter function. I then converted the return type of my query to a data table. Next, I input the parameters on my query from the search and filter controls and used this query in the on-load of the form and on-change functions of the dropdown value to filter the records.


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DATE	5/11/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Presentation, New Task Assigned, Planning for new task	SHIFT/TIME	8:25 AM to 5:36 PM

Today I had a meeting scheduled with Sir Allan in regard to my progress. During the meeting, I showed him my progress and he talked about my new task, which is to create a tool that will fix and align the records of the local terminal based on the records from the server database in case it gets corrupted. The scenario is that sometimes data on the terminals gets corrupted. Losing some of its data means that the ids of the records do not match the server and when records are pushed from the terminals to the server, there will be an error. Normally how they fix this is they manually update the MDB file of the terminal and match the records to the server. This is tedious and takes time which means the terminal is non-operational and is done manually which is prone to errors. My task is to automate this process by creating a tool that will compare the records of the server and copy any records that are not present to the terminal.

I first finished the tasks of my monitoring module and then planned what I will do next for my new task. First, I brainstormed ways of how to approach the problem. I first had to know the mapping of the Transactions table of the Server and the Terminal as not all their column header names are the same. After figuring out the mapping, I then had to think of a way to efficiently compare the columns. I can do this by comparing the transaction Ids of the server to the records on the terminal. If it is not found in the terminal, it will be appended along with its other values.

Next, I had to implement my ideas. For the mapping, I first identified the same headers of the branch server and the terminal by creating a Python script. This script queried all the fields of the terminal table to the SQL server table. If it returns a result, its name is the same on both tables and if not, I manually check the mapping of the data. I plan to explore more the mapping of the tables tomorrow. Lastly, I am excited about this task as I feel that this will really benefit the operations of this system. The support crew would only need to use the tool that I would build in order to fix the issue and not have to manually update the records to match.



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DATE	5/12/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Prioritize new module, Initial Development of new module	SHIFT/TIME	8:26 AM to 5:45 PM

In the morning I asked Sir Allan for a backup of the SQL and MDB database that has matching records. While waiting I continued the mapping of the transaction header fields. When he replied, he told me to prioritize a new task he is giving me which is an auto-updater for the terminals. Currently, every POS terminal is being updated manually by the cashier which needs prior knowledge and time. This auto-updater software will be run on startup to check for updates from the server before the terminal is used.

First, I got the update folder path of the branch server from the database. This is where the updated files for the terminal are placed. Next is that I checked the folder path with the format \\{branch server}\POS Updates if there are files to be updated. If there are files that need to be updated, I created a backup of the old files. I compressed these backups to take up less storage. From there I then updated the current files transferring them from the Branch Sever folder to the terminal folder through a network sharing connection.

In the afternoon I then added checking the directory/folders and updating them and not only the files. I used a recursive function to check if a path is a directory, if it is, recursively call the function to access all the files in that directory. Next, I then added and improved the IU for showing if there are updates, what files will be updated, when it is backing up, and when the update is done. Finally, I tested it on another device in the network to check for functionality and performance.

My task may have changed but I am still happy as it also solves an actual problem of the company when updating their terminal manually and making automated every time the system boots up.



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