

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

Software Development

- 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.
- Developed the functionality to be able to send a response back to the POS Terminal from the Branch server of the credentials entered by the supervisor.
- Set my PC as the branch server and my laptop as the POS terminal. 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.



TRAINEE'S SIGNATURE



Malayan Colleges Laguna
A MAPÚA SCHOOL

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

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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

Software Development

- Supervisor told me to enhance the functionality of the module by adding what I think the user needs. 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?
- Developed a view transactions functionality for transactions of a specific terminal for the day.
- Rearranged the elements so that there could be a link label at the bottom of the terminal group box control for "see more".
- Added a search bar to be able to filter the data and easily search a specific record. I also added a refresh button to make sure that the records are up to date.



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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

Software Development

- Finished the view transactions functionality to be presented to Sir Allan tomorrow.
- Implemented the MD5 hashing algorithm for storing the password in the auth file to be processed by the terminal.
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.
- 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.
- Finalized the filtering function for sales, returns, void, or all transactions.
- Implemented a search function. This would allow the users to search for a specific record with a filter by a specific field.



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DATE	<div style="border: 1px solid black; padding: 2px;">5/11/2023</div>	AREA ASSIGNMENT	<div style="border: 1px solid black; padding: 2px;">B&HI Segment RnD Department</div>
TASK	<div style="border: 1px solid black; padding: 2px;">Presentation, New Task Assigned, Planning for new task</div>	SHIFT/TIME	<div style="border: 1px solid black; padding: 2px;">8:25 AM to 5:36 PM</div>

Software Development

- 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.
- Started the mapping of table fields from the MSSQL server on the branch server to the MS access mdb file on the POS terminal.
- 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.



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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

Software Development

- Asked my supervisor 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.
- He then 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 updates folder 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.
- 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.
- Tested it on another device in the network to check for functionality and performance.



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