

## 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	5/02/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Finalized Documentation, Present, Add Functionality to Module	SHIFT/TIME	8:23 AM to 7:32 PM

### Software Development

- Added error checking for the MS Access database in case it cannot be accessed due to network sharing issues.
- Had a meeting with my supervisor where in I showed him my progress with the additional features he asked for. I received positive feedback and he told me I was able to execute the revisions he gave me.
- Added more functionalities such as a sum of the sales, returns, and void transactions for the current business day per terminal, and showing the currently logged-in user.

### Technical Documentation

- Continued and finished the initial documentation of the current state of the POS Terminals Status module.
- Documented the main form load, the timer tick, and the refresh terminal functions such as getting the status, computing for the unsent, initializing components, refreshing components, and the generation of components.
- Fixed the overall documentation by adding the appropriate headers, linking, and any other content that I missed.



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Malayan Colleges Laguna  
A MAPÚA SCHOOL

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

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DATE	5/03/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Testing, Refactored Code	SHIFT/TIME	8:22 AM to 6:27 PM

### Software Development

- Tested the new functionality I created the past few days. I first tested the sum of the types of transactions being sales, returns, and voids for the current day of a specific terminal.
- Tested the currently logged-in user checking afterward. In order to simulate different scenarios, I manipulated the test data and confirmed my current implementation to be working.
- I checked for areas in my code that I could improve. I was able to improve it by removing the need to create a list of terminal names for async ping, separating code to generate lines in controls, and improving the ping async function by removing the need to return a list of type boolean as I moved the status to the terminal model.
- Prepared what I need to show to my supervisor as we have a scheduled meeting tomorrow at 10:30 AM.



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DATE	<div>5/04/2023</div>	AREA ASSIGNMENT	<div>B&amp;HI Segment RnD Department</div>
TASK	<div>Presentation, New Functionality, Development</div>	SHIFT/TIME	<div>8:26 AM to 6:32 PM</div>

**Software Development**

- Double-checked the functionality and readied my presentation and questions for my meeting with my supervisor.
- During the meeting, Sir Allan approved the implemented functionalities and commended my work. After that, he told me the next functionality he wants is to notify the user using the terminal monitoring module when a specific terminal is in need of supervisor authorization and be able to serve the request.
- To notify the user I chose to change the color of the terminal controls and play a sound after the refresh if at least one terminal needs authorization. I then created a dummy POS program that can trigger an authorization request which will create a file locally in a network-shared folder to be accessed and checked by the server.
- Programmed the terminal monitoring module running on the server to check each of the terminal's shared folders if an authorization file is present. If it is present, the program will change the color of the terminal controls to yellow and play a sound.
- To simulate approving the request, when a terminal that needs authorization is clicked, it will require supervisor credentials and will only authorize the request if the correct credentials are entered. After which the file will be deleted simulating the request to be served.



  
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DATE	5/05/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Refactored Code, Fix bugs	SHIFT/TIME	8:24 AM to 5:35 PM

### Software Development

- Moved the code for authentication and granting authorization to the credentials form and then moved terminal controls to separate files from the main form for better separation of concerns.
- Encountered a bug where after a request has been authorized and another request has been sent, it does not update the state. Was able to fix the bug by not creating a new instance of the terminal components list with every refresh of terminal data.
- Improving my code such as getting the MS Access connection string and address of auth file.
- Supervisor had a lot of meetings, and the checking of my progress was moved to Monday.



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