

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	4/24/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Presented Documentation, Started New Development Task	SHIFT/TIME	8:30 AM to 5:54 PM

Technical Documentation

- Final checking of the documentation. I skimmed through everything and fixed any grammatical, design, or format mistakes. Added some parts that I may have not documented yet.
- Presented the finished program and my documentation to my supervisor.
- He said that it met his expectations, and ideas and that I did well. I asked for feedback such as the time it took me to create the modules and he said that I was fine.

Software Development

- After the presentation and feedback, I was given a new task. My task is to create a module that checks the status of the POS machines if they are online or offline and the difference of records locally in the POS and from the server.
- Sir Allan discussed that I could get the status of the terminal by pinging them and that to check the difference between the records, I need to access both from the server (MySQL) and from the POS (MS Access) and compare them.
- Conceptualized the user interface by creating mockups. I then identified the different form controls to be used namely: Flow layout, group box, picture box, and labels.
- I put my ideas into action and created an initial implementation for the generation of all the terminal UI components with static data.



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DATE	4/25/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	School Activities, Development Tasks	SHIFT/TIME	8:26 AM to 7:22 PM

Software Development

- Continued working on the user interface of the POS terminals status module. I first changed the POS icon to a more modern one as per the feedback of my supervisor, finalized the sizes of the form and group box, and finalized the text placements and size.
- Generated the UI components based on actual terminal data as I was previously only using static data. I first created the terminal model and queried all the valid terminals. I then generated the UI components based on the terminals.
- Got the terminal status by pinging the terminal using the terminal name. I first used the Ping class in C# to ping the queried terminals. It works but since the ping.Send() function only uses the main thread it was sending, waiting, and receiving the pings one at a time. From my research, I discovered using the PingAsync() function so that the pings can be sent concurrently. It has since drastically improved its performance.
- Used a timer to refresh the status every 1 minute.

Miscellaneous

- In the morning I attended the opening of the CCIS college week. I asked permission from my Practicum Supervisor yesterday about attending the event and he allowed me to attend as long as I finish my output.
- While at school I also processed papers for OJT regarding the student performance evaluation.



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Malayan Colleges Laguna
A MAPÚA SCHOOL

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DATE	4/26/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	UI, Network Sharing, Compare Server and Terminal Records	SHIFT/TIME	8:26 AM to 7:05 PM

Software Development

- Improved the UI/UX by adding an icon to the form and adding a progress bar so that there is a visual indicator while the program is pinging the terminals and waiting for their replies.
- Implemented the number of unsent records from the POS to the server by connecting to the POS through the local network and accessing its local MS Access mdb files and comparing its count to the records in the server's MSSQL database for a specific terminal.
- Notified my supervisor and he told me that I should show it to him if he had time today or tomorrow.
- Improved the implementation of the terminal status refresh every minute from disposing all the form controls and creating control with updated data to initializing the components on startup and then updating the text of the existing controls on status refresh.
- Improved my implementation for my progress bar and added a status indicator where it is colored green if the terminal is online, and colored red if it is offline.



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DATE	4/27/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Improve UI, Presentation, Add Functionality to Module	SHIFT/TIME	8:28 AM to 7:02 PM

Software Development

- Improved the user interface by making the form and UI elements bigger as requested by my supervisor.
- Confirmed the functionality of status and unsent values per terminal through different scenarios. I found that using a wired connection is optimal as it means that the terminal can connect to the network faster. This is because when I was using wireless, the status of the terminal took a long time before it updated.
- After I finished testing, I informed my supervisor and we had a meeting. He gave me positive feedback but wanted to improve and add additional functionality. The first is to have the loading screen show the current terminal being connected to. Second, make the UI even bigger with at least 12 terminals being seen in one window. Third, have a filter to show or hide offline terminals. Lastly, have a timer to show the next refresh and a force refresh button.
- Implemented the loading screen by adding an additional label and changing the text of the label in the ping async function.
- As for the status of terminals, I improved their storage with global variables to be used in the initialization and refresh of controls.
- Added a menu strip on top of the form to house the show/hide offline, refresh status, exit the program, and the timer till the next refresh.
- Implemented a 4x3 grid to show at least 12 terminals on the initial screen. Furthermore, I made the window components responsive by making the controls fill the space as needed.


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DATE	4/28/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Finalized Code and Testing, Initial Technical Documentation	SHIFT/TIME	8:25 AM to 7:11 PM

Software Development

- Rechecked the code, improve any parts to make it more readable, and added additional comments.
- Tested the module on another device, with my laptop being the server and the pc as the POS and I was happy to see that it is also working.

Technical Documentation

- Started the documentation of the application functionality and its different processes.
- Added the prerequisites needed to be done before attempting to use the module such as network sharing, sharing access to the local database, and the MS Access database engine installation.
- Started documenting the code starting with the project structure and the parameters to be received from the main program.
- Documented the desktop controls to be used and how to get the status of the terminals.



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