

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

In the morning up until before lunchtime, I again did my final checking of the documentation. I skimmed through everything and fixed any grammatical, design, or format mistakes. Furthermore, I added some parts that I may have not documented yet. In the afternoon I 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.

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.

After the meeting, I decided to start on the UI. I first 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. From there I put my ideas into action and created an initial implementation for the generation of all the terminal UI components with static data. Tomorrow, I plan to improve the design and be able to generate the UI components from the queried terminals data. I am excited as I have already finished my first major task and I received positive feedback. Furthermore, I think that my new task is interesting as I have not tried accessing files over the network on another computer before programmatically.



TRAINEE'S SIGNATURE



Malayan Colleges Laguna
A MAPÚA SCHOOL

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

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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

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.s

In the afternoon I 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. My next goal was to generate 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.

After that, my task was to get the terminal status by pinging the terminal using the terminal name. I first added my laptop and computer to the list of terminals. I then 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. From there I used a timer to refresh the status every 1 minute. My current implementation of clearing all the form controls and adding new ones is too slow and obvious when refreshed as all of the components are replaced. Tomorrow, I plan to add a progress bar for a better user experience when waiting and to update the text of the existing controls rather than creating new ones.


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

Today I first 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. I had a hard time implementing the progress bar as it was asynchronously pinging the terminals. My next task is to implement the number of unsent records from the POS and the server. I can implement this 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.

I first turned-on network discovery for both my PC and laptop so that I am able to connect and access files through the network. I then started off by creating a simple query to confirm that I can access the mdb file and connect to a static terminal. I then added my laptop to the list of terminals in the server database. As the mdb file and MSSQL terminal id records do not match, I had to set the terminal id of my laptop to the same terminal id found on the mdb file records. I then queried the specific terminal records from the server and the ms access file, compared them, and showed it in the form.

After finishing the functionality, I notified my supervisor and he told me that I should show it to him if he had time today or tomorrow. While waiting I 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. Furthermore, I 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

In the morning I first improved the user interface by making the form and UI elements bigger as requested by my supervisor. Next, I 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. I asked my supervisor about the connection of the POS terminals and he told me that they were wired, which is good.

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. After the meeting, I first went on my lunch break. I then started to implement these functionalities in the afternoon as I planned to finish the feedback from my adviser today.

I first 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. I then 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. Finally, my last task of the day is to make the base form bigger again and update the controls. I then 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. As for how I am feeling, I am happy as I got to finish this module earlier than expected. I feel that I am getting used to the role of being a software developer and the responsibilities it comes with.


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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

In the morning I asked my supervisor about my next task as I have finished the POS status module. While waiting I processed my student evaluation document to be submitted to my practicum adviser tomorrow Ma'am Rhea. After that, my supervisor replied that he would meet me on Tuesday to check the revisions that he asked for and my next task was to document the module I created. I then proceeded to recheck the code, improve any parts to make it more readable, and added additional comments. I also 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.

In the afternoon I started the documentation of the application functionality and its different processes. I then 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. I then started documenting the code starting with the project structure and the parameters to be received from the main program. Lastly, I was able to document the desktop controls to be used and how to get the status of the terminals although I was not able to finish it. Before I finished my shift, I prepared what I needed to present to my supervisor and I also plan to continue the documentation on Tuesday.


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