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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.
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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

In the morning I continued and finished the initial documentation of the current state of the POS Terminals Status module. I 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. Furthermore, I added an error checking for the MS Access database in case it cannot be accessed due to network sharing issues. Lastly, I fixed the overall documentation by adding the appropriate headers, linking, and any other content that I missed.

In the afternoon I 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. From there he told me to add 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. After the meeting, I then prepared my devices for the new functionality such as using the mdb file with updated data sent by Sir Allan and I planned to start with the sum of transactions today.

I then drafted SQL commands to query the sum of sales, return, and void for a specific terminal. This was fairly easy to do as I already have previous experience on how to query this data. I then inserted dummy data to be able to test the commands. After I have confirmed that my SQL commands are correct, I created models in C# to store the queried data and used the SQL commands in my C# Code. From there I was able to use the data for the dynamic generation of C# controls including the sales, returns, and voided sums. Lastly, I was able to style the new form data and I was also able to improve the header and value control generation code to avoid redundancy by encapsulating it into a function.

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

This morning I first figured out how to get the currently logged-in user using the session table in the local mdb file on the terminals. I had to check the session records for the date today and check if the latest session's sign-off date is null, which means that the user has not logged out yet. If it is not null, then there is currently no logged-in user. After that, I created the SQL commands to query the currently logged-in user and inserted dummy session data to test my query. I then used the query in my C# code and added error checking if the server cannot connect to the terminal. I then used the queried data for the dynamic generation and refresh of controls.

In the afternoon I 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. I then 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. After that, 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. Lastly, I 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	5/04/2023	AREA ASSIGNMENT	B&HI Segment RnD Department
TASK	Presentation, New Functionality, Development	SHIFT/TIME	8:26 AM to 6:32 PM

In the morning I first updated the dummy records to match the current day and checked for code improvements while I waited for my meeting with Sir Allan. I tried to improve the code by using asynchronous database function calls but I was not able to do it on time. After that, I double-checked the functionality and readied my presentation and questions for the meeting. 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 start things off, my current task is to just show the notification, but in the future, he wants to be able to serve the authorization requests if the correct credentials have been entered.

I first started with ways to be able 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. I then 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. Note I have only used static credentials as a proof of concept as I do not know where to get these credentials yet.

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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

Since I was already done with the functionality requested by Sir Allan, I notified him if he is available today and he said that he could meet me around 2 pm today. In the morning I tried to improve my code before our meeting. I first 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. After refactoring my code I encountered a bug where after a request has been authorized and another request has been sent, it does not update the state. I checked that the state is being updated but the on-click listener of the control is not being updated. I tried updating the on-click listener to no avail.

After my lunch break, I was able to fix the bug by not creating a new instance of the terminal components list with every refresh of terminal data. I used the old list, cleared it first, and then added the new terminal component data. I was pretty free during the afternoon as I was just improving my code such as getting the MS Access connection string and address of auth file while waiting for Sir Allan. Sadly since it was Friday, he had a lot of meetings and the checking of my progress was moved to Monday.

I realized that in work, like in anything in life, things don't always go your way as there could be blockers. In this scenario, I needed feedback for my progress and thus I had to look for other ways to spend my time wisely.

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