Project Proposal: PHP-SRePS (TASK 63C)

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Mon 2:30 EN402 ▮▮▮▮▮▮▮

Validate Input

In our sprint backlog items (for sprint 2), I believe that 'Validate inputs' will be the biggest/longest item over the other item.

Overall, I believe this task should take 3 ½ hours to complete and requires a lot of effort with validation (see actual estimation for the item's tasks); Why do I think the other items are smaller?

Comparison (Estimate by Size Comparison)

For this task, I've decided to estimate by Size comparison; This is because it allows me to compare the effort for validating input over the other tasks; In this comparison, I can see how much time and number/complexity of tasks (for validate input) are required over the other items.

Add new sale to its table

- This task should take 45 minutes
- Minimal effort required because the entity and façade class is already setup; All we need to do is add the function in the client tier

Predict weekly/monthly sales of similar item
- Should take 30 minutes
- Minimal effort required because the application already predicts the weekly/monthly sales of an item, all we need to do is use the same code with another item.

Notify low quantity of stock
- This task should take 2 hours
- Same effort with validating input, because this task requires to check the quantity of sale records and insert a warning box if the quantity levels are low (an if statement will be used to check the quantity levels)
- I think validate input is more vital, because I think the code is bigger and the duration is longer

<u>Create user types</u>

- This task should take 15 minutes
- This take requires very little effort, In the database, the user types (for each record) should only be USER and ADMIN

<u>Create user privileges</u>

- This task should take 2 ½ hours
- The effort is on the same level as input validation; Once the user has logged in, the user object needs to be carried into the mainWindow. When a user performs a CRUD operation, an if statement can check whether a user is authorized to access the operation. When you logout, the user details should be erased
- I believe validate input is SLIGHTLY BIGGER, because it's longer and this task may require extensive research to implement validation expressions.

<u>Validation of users</u>

- This task should take 15 minutes
- This requires very little effort, because this task requires to check if the username is equal to the given password (requires the database for validation)

Actual Estimation

TASK	ESTIMATED TIME	JUSTIFICATION
Plan out how many items to validate	30 minutes	This task requires to find out the actual number of inputs to validate
Write out regex statement	2 hours	Although this task might be overestimated, regex can become tricky to write; This is because we may have a complex expression to write, we may have to write a lot of validation checking and extensive research maybe required
Error messages	1 hour	If users made invalid input, an error message should pop up notifying

		errors in the input (they need to be specific; e.g. no numbers)