Peer Review
Feature: Personal Note

Feature Developer: Yoshiki Yarlagadda
Date Developer Submitted: April 1st, 2024

Feature Reviewer: Devin Kothari
Final Date Review Submitted: April 2nd, 2024

This Peer Review and Feedback will only involve and pertain to the contents of Personal Note User Stories 1(PN1), 2(PN2), 3(PN3), 4(PN4)

Overall Feedback:

Positives

- Design follows the template decided to design all Lifelog LLD's
- All success cases showcase flow of logic and precision of functionality. Most also follow all Personal Note specific details stated in the BRD.
- Most failure cases/outcomes showcase flow of logic and precision of functionality. Most also follow all Personal Note specific details stated in the BRD.
- All cases include good technical details and also fully include functions, parameters and variables with proper naming standards to be called in the application, this showcases the developers intuitive-streamline thinking.
- Developer has included front-end specific LLD tests that are well detailed.
- Developer has followed the staircase design format and there are no discrepancies

Negatives

- Lifelog Calendar Feature is dependant on this one and so there should be another set of LLDs which depicts the flow of when Lifelog calendar is utilizing this feature .
- Most failure cases for PN1, PN2, PN3, PN4 state that a success log is being created when it is supposed to be a failure log.
- PN4 has a total of 6 LLDs within the document but the BRD states only 4, It appears that the developer may not have finished implementing the remaining outcomes. Alternatively, the developer might have realized that some outcomes could be consolidated into a single outcome due to their evolving understanding of development. However, this intention is not explicitly stated in either the LLD doc or the BRD

Unmet Requirements:

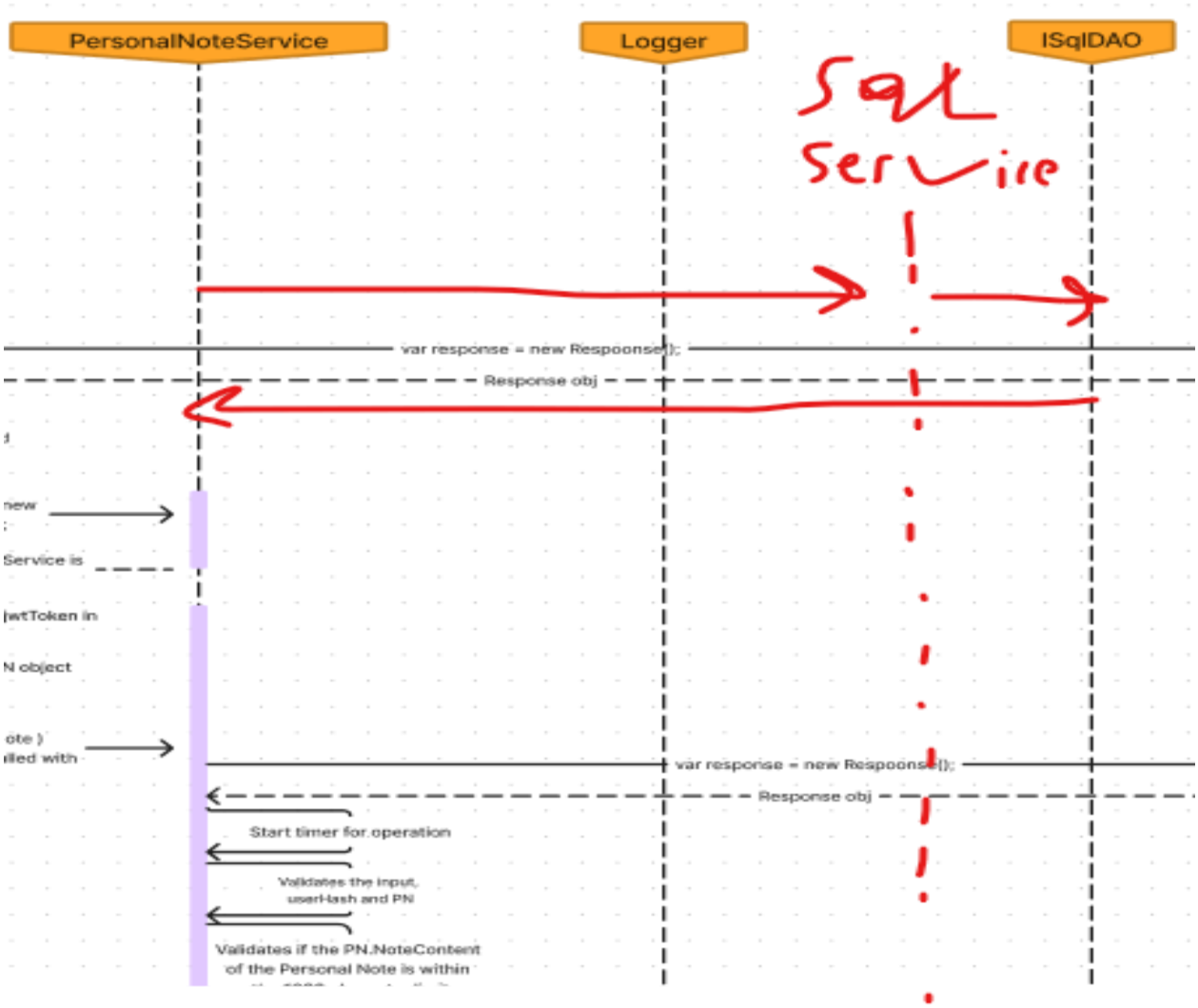
- In PN3, there are 6 failure outcomes listed in the BRD, yet only 3 LLDs were documented. It appears that the developer may not have finished implementing the remaining outcomes. Alternatively, the developer might have realized that some outcomes could be consolidated into a single outcome due to their evolving understanding of development. However, this intention is not explicitly stated in either the LLD doc or the BRD

Test Requirements/Recommendations:

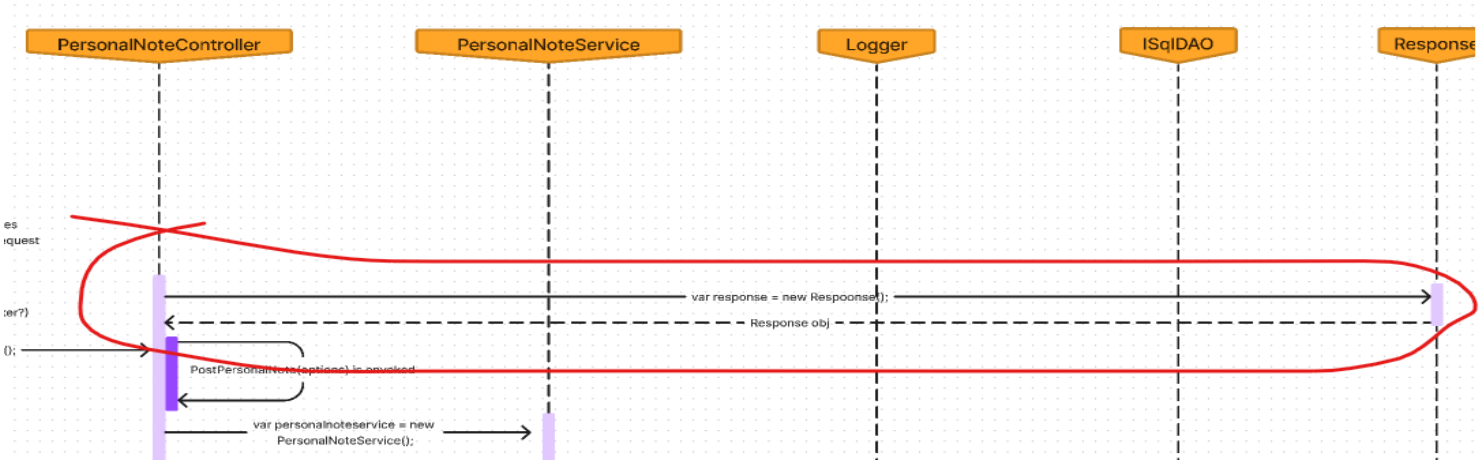
- Based on the test cases that were included in the LLD Doc most were completed and met the requirements.
- To save on time and resources, I recommend making a front end test for checking the character limit(1200) on a description input. Doing this in the back end is effective but this is another work around.

Design Recommendations:

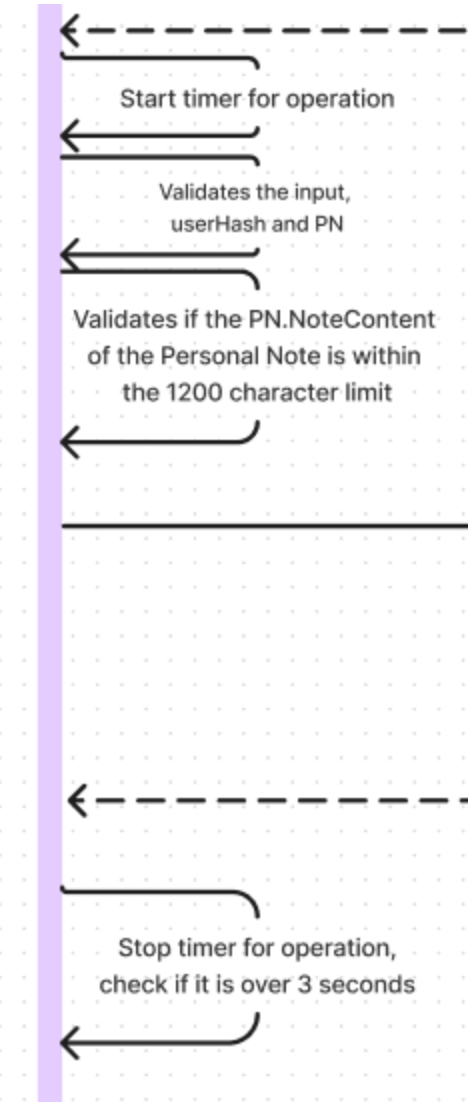
- Overall for all LLD's that include a sql statement within your personal note service, I would recommend to create a separate layer that contains both your dynamic and static sql statements for your service. For example see below.



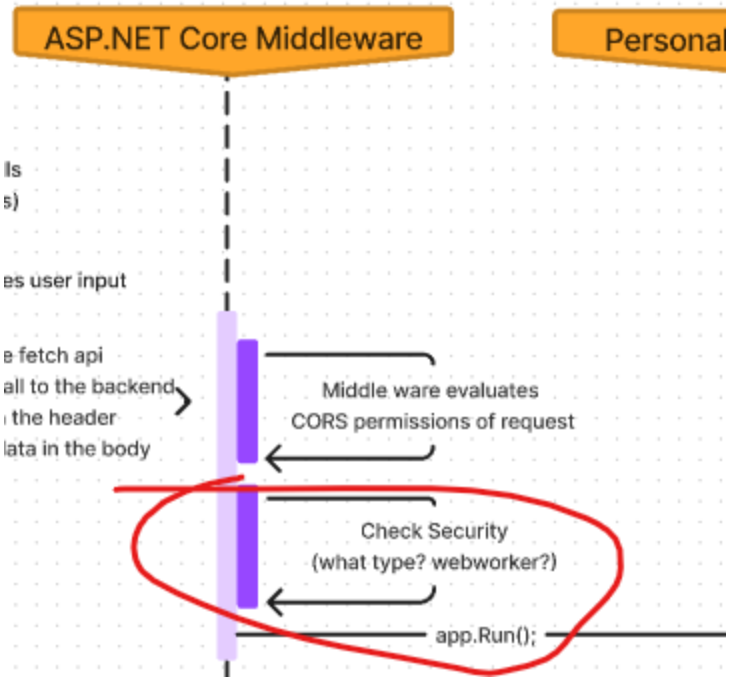
- To improve the design, you should initialize the response object in the service layer below where the function is called from the controller layer, rather than above it. This ensures proper implementation of staircase design, this flaw occurs throughout all the LLD's within the document.



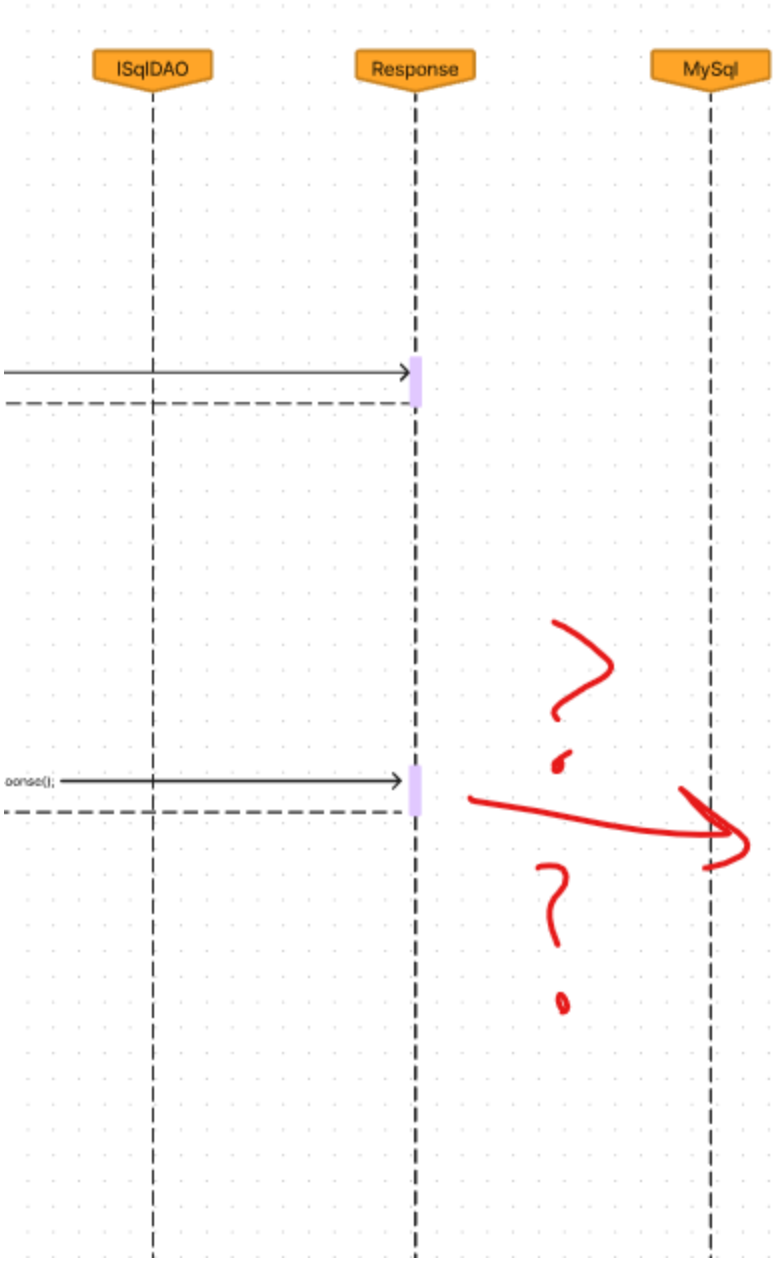
- Instead of using the timer() function, create one variable of DateTime in the beginning of your service layer and another at the end of your service layer and then you can compare both to see if it has been more than 3 seconds. The time() function uses a lot of resources.



- I recommend validating the token in your middleware, this makes sure that security is implemented in every layer.



- In most failure outcomes the LLD does not showcase the flow reaching the database layer when it should be. For example when doing a CreateDAO or ReadDAO


ISqlDAO
Response
MySql