Peer Review

Feature Name: LLI Management

Developer Name: Phong Cao

Reviewed by: Yoshiki Yarlagadda

Date Developer Submitted: March 29th
Date Developer Submitted (LLI 5 and 6): March 18th
Date Review Completed: March 19th

Note:
Implementation for this feature had begun before the design documents were submitted. However, user stories LLI5 and LLI6 were submitted before implementation.

Major Positives and Negatives:

- Positives:
    1. The design strictly follows the template decided to design all Lifelog LLD
    2. Most success stories clearly and precisely depict the flow of logic and capture details in regard to the development of the functionality
    3. All the designs have a good amount of details in the descriptions which makes it easier to follow and understand what each function is trying to accomplish.
    4. The design was made with reusability and extensibility in mind, with helper functions that are adaptable to changes in requirements and future additions
    5. A clear indication of design goals in the LLD for the LLI5 and LLI6 designs.
- Negatives:
    1. Need to fix a few missing details in the LLD for example the unspecified amount of character limits in LLI1 Failure outcomes 2 and 3.
    2. You are missing design goals for user stories LLI 1 through LLI4
    3. It would be nice if the system shows the user's warnings in the front end while interacting with lifelog instead of waiting for the backend code to validate and throw errors. Doing so will reduce the load on the backend and in turn improve the overall user experience.
    4. Need some front-end testing implemented, Although this topic of front-end testing was not yet introduced when developing the diagrams. It would be great to see that the user can successfully interact with our application.

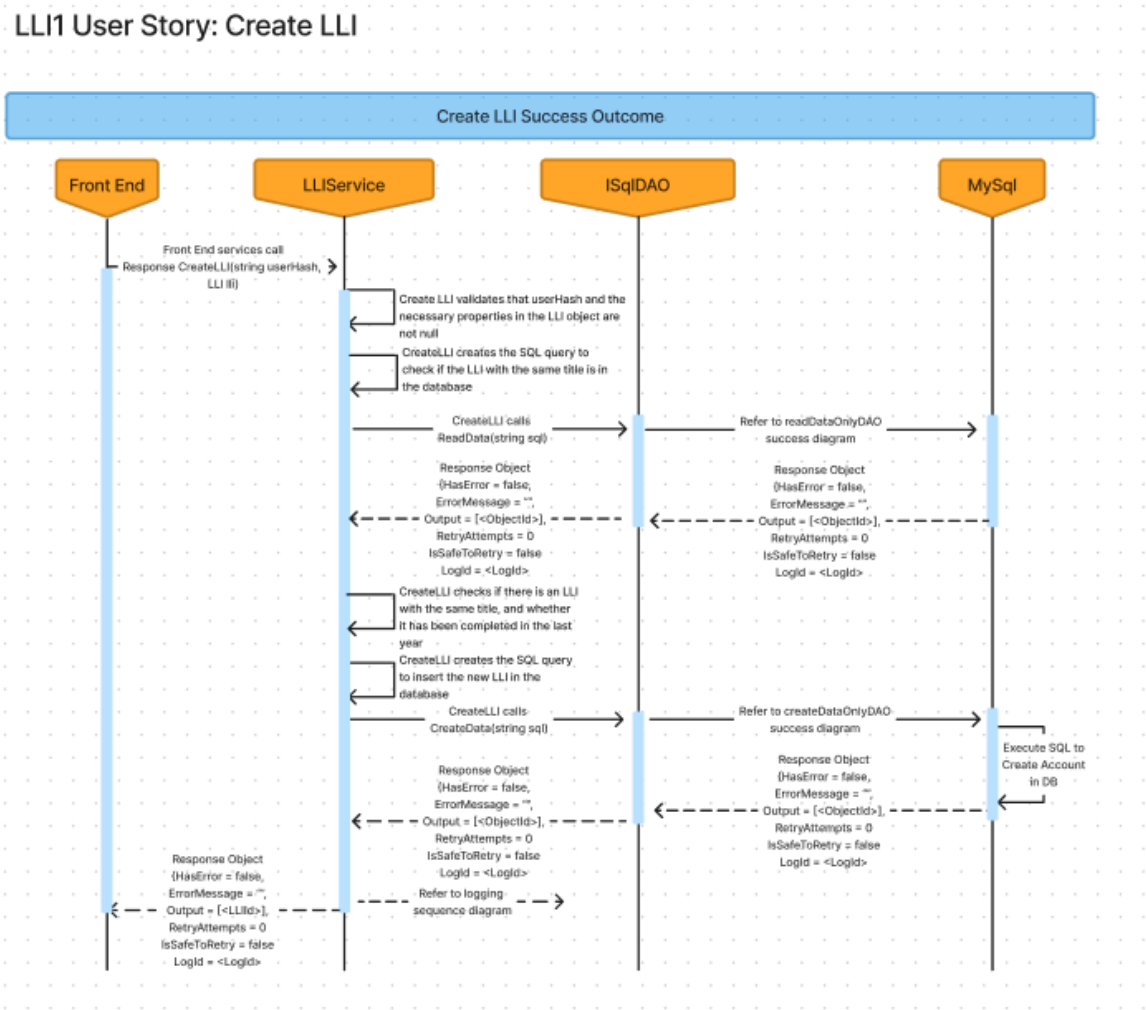
Unmet Requirements

1. For LLI5 you should add a failure test case to check if the filtered LLI are not displayed within the 3 second limit mentioned in the BRD.

Design Recommendations:

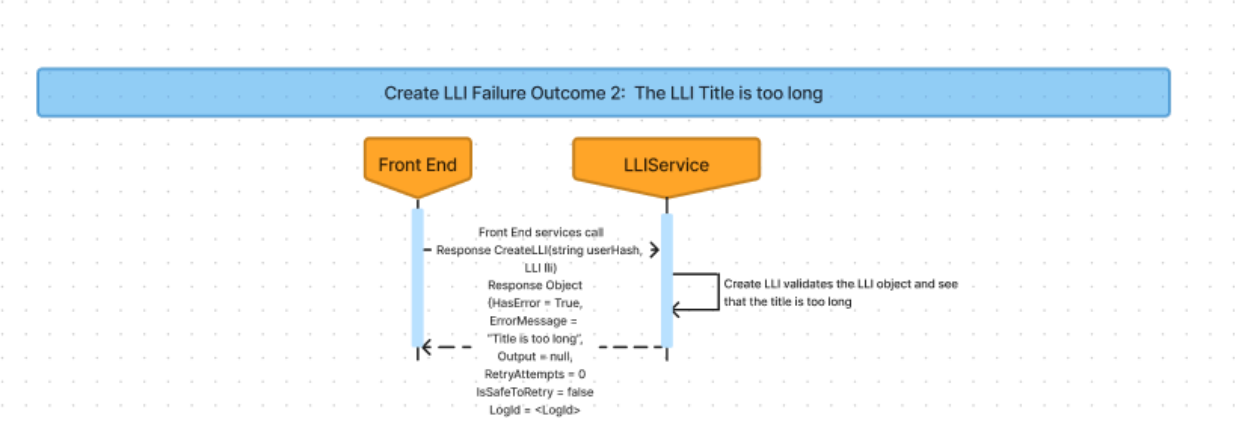
1. In the LLD for LLI1 Create LLI user story, in the MySQL layer it says that the executed SQL creates an account, however, in this user story, you are creating an LLI not an account.

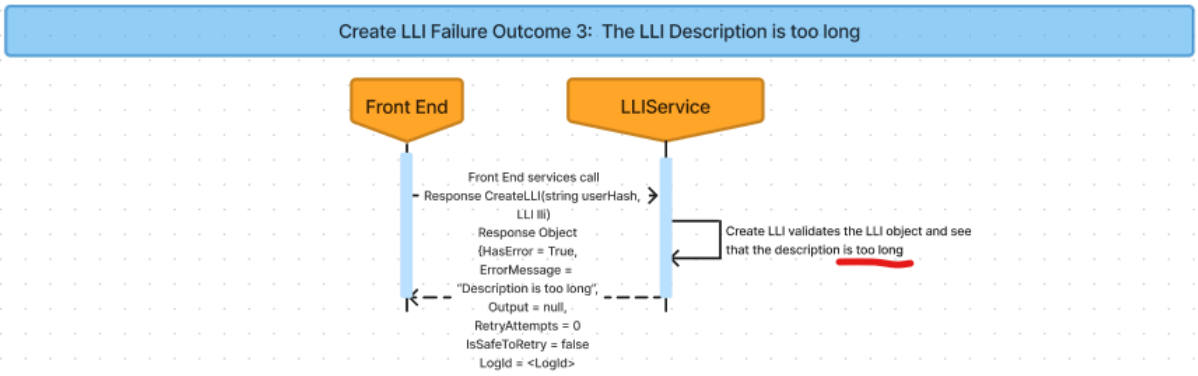
   There is a similar mistake in the LLI 1 failure outcomes 7 and 8.



2. In the LLD for LLI1 Failure Outcome 2, you should have specified in the LLIService layer the exact number of characters in the title, instead of “too long” to make it quantifiable, which according to our BRD is a 50-character limit.

   The same applies to Failure Outcome 3 (The LLI Description is too long), which needs to be quantifiable. In this case, the BRD specifies a character limit of 200.

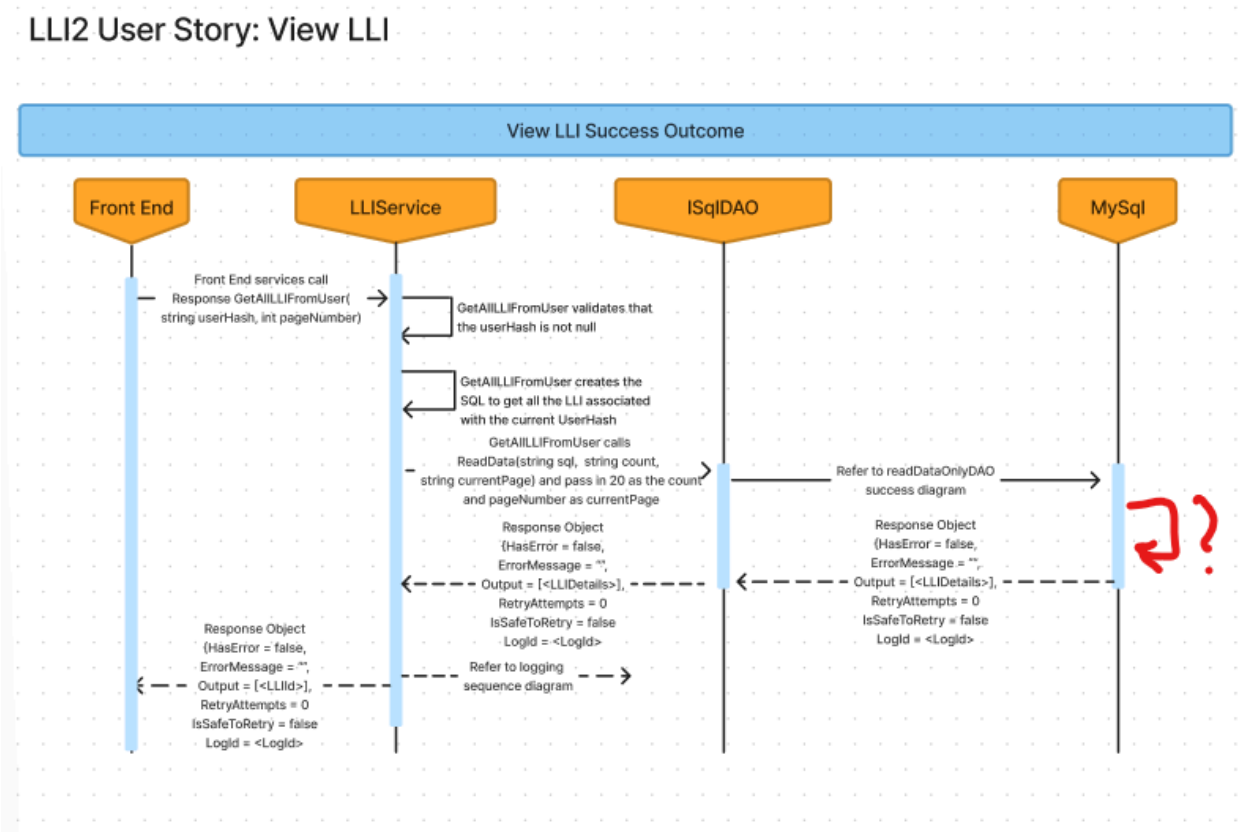




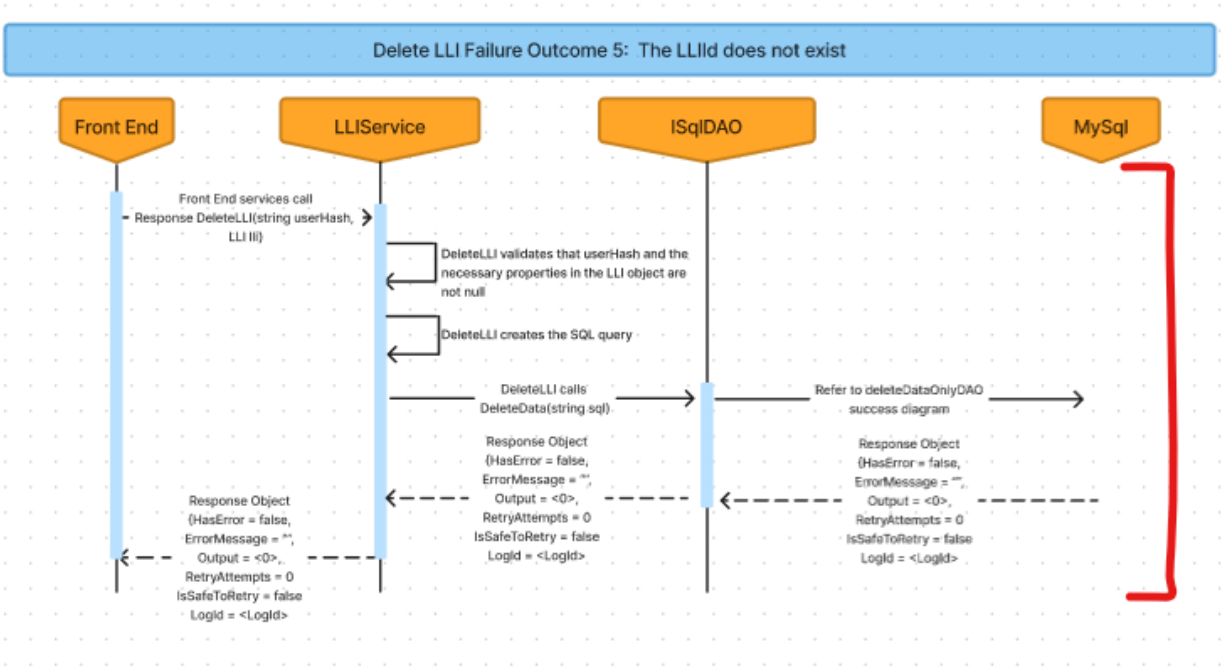
3. In LLI2 User Story View LLI, make sure to write down what happens at the MySql Layer. Being descriptive is important. In the case of LLI2 user story, you should have text that says “SQL command is executed to view the LLI”

   The same applies to the following LLD diagram:

   - LLI1 Failure Outcome 6
   - LLI2 Success Outcome
   - LLI2 Failure Outcome 2
   - LLI3 Success Outcome
   - LLI3 Failure Outcome 6 & 7
   - LLI4 Success Outcome
   - LLI4 Failure Outcome 4



4. For LLI4 Failure Outcome 5, you are missing part of the MySql Layer



5. Lacking Logging functionality in the design, you have not added any reference to logging the actions of filtering in the case of LLI5, and the same for LLI6 which implements the search functionality. Both these user stories need to implement logging.
6. The failure case #3 for LLI5 “No LLI matches the filters” in my opinion is not a failure outcome since if no LLI matches the user-specified filters, that functionality should just return 0 matches which is exactly how you would want the filter option to function.

Test Recommendations:

1. I highly recommend incorporating comprehensive front-end testing to assess the functionality of various components
    a. such as the “Add LLI button” and “filter selection” options. It's imperative to ensure that users can seamlessly interact with these elements
    b. Test the ability to input data into a text field, this would apply to the input fields for tying in the Title, and description of an LLI.
2. Expand integration testing efforts:
    a. Validate the precise execution of SQL commands.
    b. Ensure accurate data insertion and deletion into the database.
    c. Rigorously test these components to enhance system reliability and performance.

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