Peer Review
Feature: Life Tree

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This Peer Review and Feedback will only involve and pertain to the contents of Life Tree User Stories 1(LT1), 2(LT2), 3(LT3), 4(LT4)

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 Life Tree specific details stated in the BRD.
- Most failure cases/outcomes showcase flow of logic and precision of functionality. Most also follow all Life Tree specific details stated in the BRD.
- All cases include good technical details and also fully include functions, parameters and variables with proper naming standards.

    Negatives
- The Success case for LT1, LT2, LT3, LT4 do not contain the specifications for a success log when it is explicitly stated in the BRD that there will be one for each of them.
- You should not be calling the getAllLLIFromUser function from the Lifetree Service. It is already implemented in the LLI WebService, you can call it from there instead, and then check if it LLI is completed. There is an existing API in our system to fetch all User LLI, and you will just need to check for the status which can be done using a simple JS function in the Front end. This leads to reduntant code. A similar case can be made for the ViewPN() function.
- The staircase principle was not being followed properly throughout the LLD.

Unmet Requirements:

- For LT1, there are 5 Failure outcomes listed in the BRD, yet only 3 outcomes are shown; this should be stated somewhere in the LLD doc or should have been changed on the BRD to reflect the developers intentions of not moving forward with them.
- For LT2, there are 6 Failure outcomes listed in the BRD, yet only 4 outcomes are shown; this should be stated somewhere in the LLD doc or should have been changed on the BRD to reflect the developers intentions of not moving forward with them.

- For LT3, there are 4 Failure outcomes listed in the BRD, yet only 3 outcomes are shown; this should be stated somewhere in the LLD doc or should have been changed on the BRD to reflect the developers intentions of not moving forward with them.

- For LT4, there are 6 Failure outcomes listed in the BRD, yet only 4 outcomes are shown; this should be stated somewhere in the LLD doc or should have been changed on the BRD to reflect the developers intentions of not moving forward with them.

Test Requirements/Recommendations:
- Based on the test cases that were included in the LLD Doc most were completed and met the requirements.
- Your Feature is a front end heavy feature, due to this you will need to implement front end testing which is not signified anywhere on your LLD document, you will also be required to log any failures in the front end.
    - I would recommend to have a front end test that checks for the number of branches created for the user and assert if they match the number of completed LLI's.
    - Another test would be to see if you are able to access the Personal Note service/view from your Life Tree View.

Design Recommendations:

- To improve the design, you should initialize the lifetree 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.
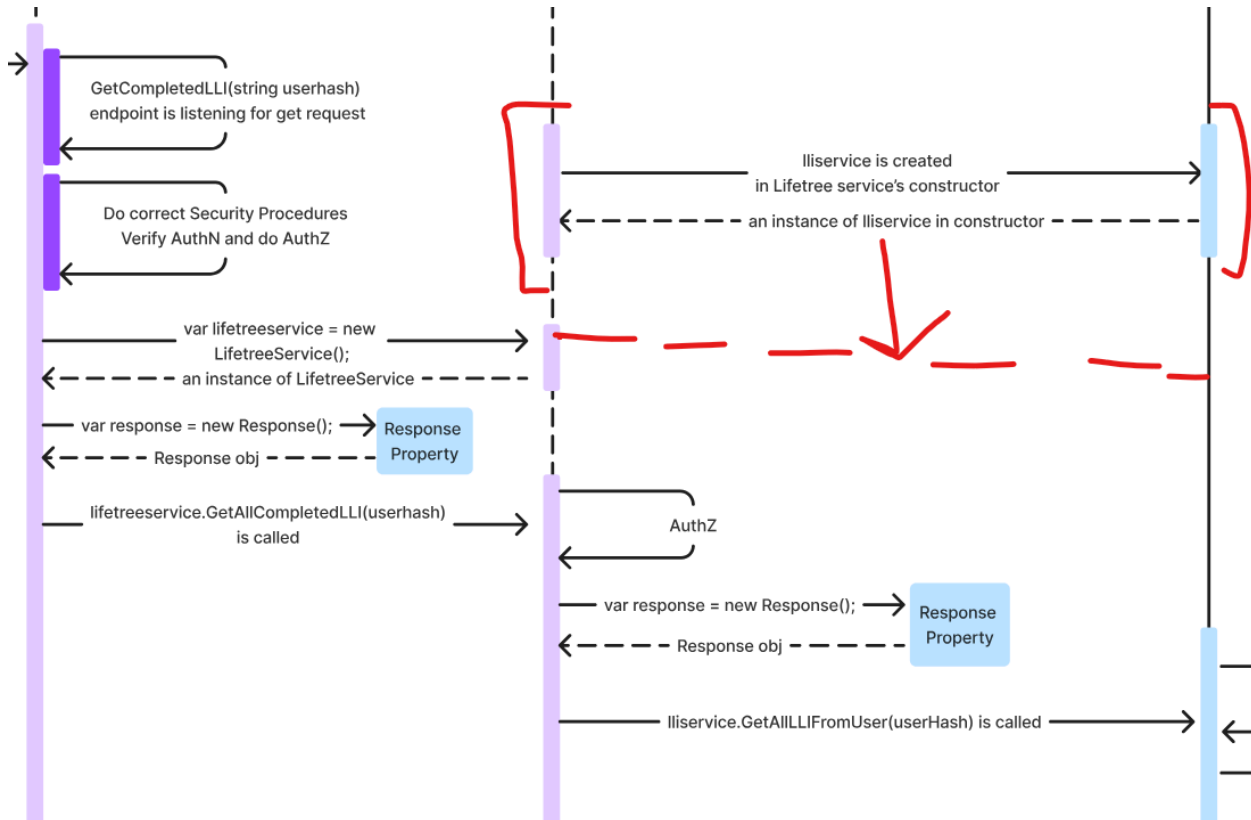
- To improve the design, you should make sure that you are following the staircase principle, here you are calling the function GetAllLLIFromUser much earlier than intended. This is a flaw in your design that is repeated in many instances, throughout the LT1 user story.
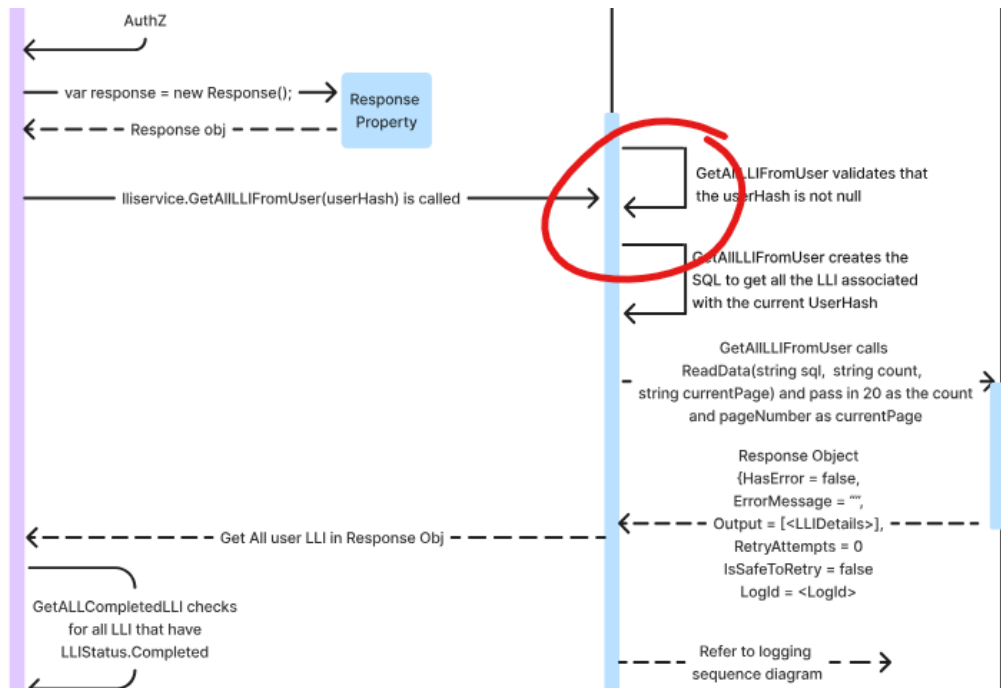

- In LT1 failure outcome (Tree does not grow) the event where the tree does not grow causing a failure is not logged in the persistent data store, the BRD states that this error will be logged but in your design there is no instance of it being logged.
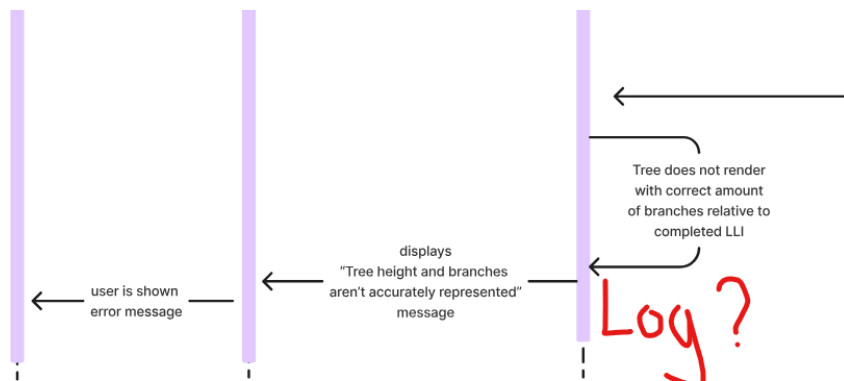
- In LT1 failure outcomes 2 and 3, there is an improper sequence of events, the response object needs to be sent out only after the lifetree controller layer receives a response object from the Lifetree service layer, but in your LLD it shows that the subsequent steps are done much earlier, and does not rely on the response object returned from the Lifetree service layer. Make sure to adhere to the staircase principle.

LT 1 Failure 2
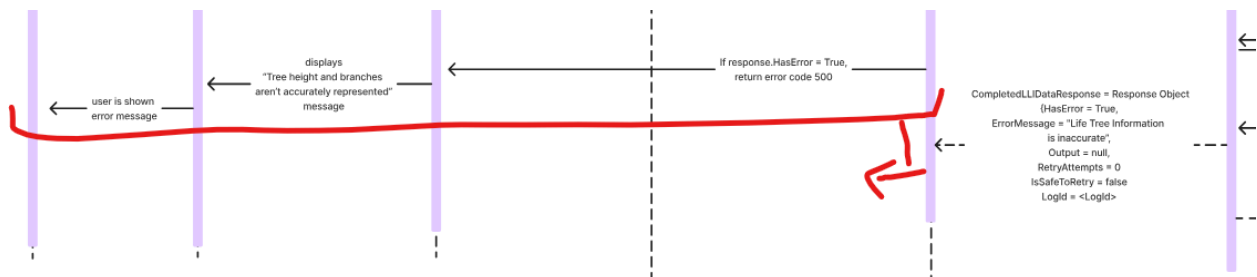
LT1 Failure 3
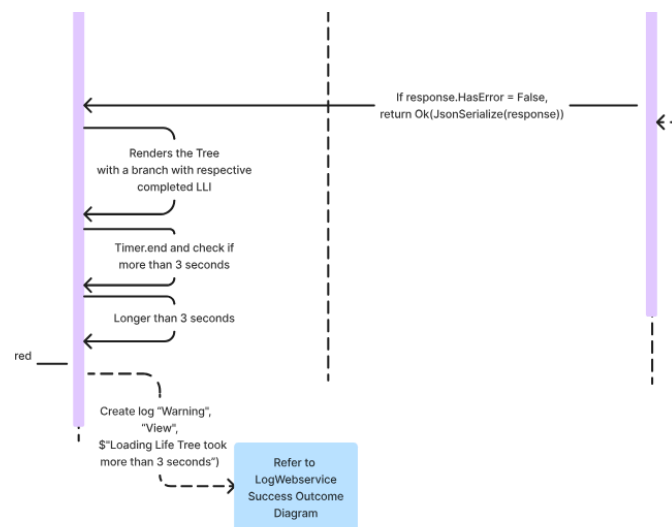
- In all LLD you have made the mistake of not following the staircase principle in the sequence diagrams for Authorization, and there is no further details as to what is exactly occurring at this moment in the LLD, you need to make this more specific, remember that this is a Low-level design document that means that it needs to include a greater level of details. You need to mention that you are authorizing the appPrincipal in this case.