Issue Thread

Hello and thank you for your interest in our survey!

We're conducting a study to better understand the challenges that developers and researchers face when working with software issue threads. Your insights are invaluable to us and will contribute significantly to our research.

This survey will take approximately 10 to 15 minutes to complete. We appreciate your time and effort in providing us with your honest responses.

What is an Issue Thread?

In software development, an issue thread is a recorded discussion on platforms like GitHub or Jira. It's where developers, project managers, and other team members discuss problems, features, or enhancements related to a software project. These threads often include the initial problem report (the "issue"), followed by a series of comments, discussions, and sometimes links to related commits or pull requests. Understanding these threads is crucial for resolving problems, planning new features, and maintaining the overall quality of the software.

By participating in this survey, you'll help us identify key areas where issue thread management can be improved, potentially leading to more efficient and effective software development processes.

Thank you once again for your participation!

A Sample of Issue Thread:

Issue Title: Reduce amount of fields in DefaultPublisher.

Issue Description: We could think about reducing the number of fields (particularly maps and sets) that are currently in the DefaultPublisher https//github.com/ably/ably-asset-tracking-android/pull/97#discussion_r544195290 One solution could be to add Resolution to the Subscriber which should make some fields unnecessary.

Issue is synchronized with this Jira Task https//ably.atlassian.net/browse/ATS-151 by Unito.

Comments: Im going to close this issue as I think well resolve this under https//github.com/ably/ably-asset-tracking-android/pull/159.

Pull Request Title : Default resolution policy implementation.

Pull Request Description: Ive almost implemented the default resolution policy. Its missing tests (theyll be added in another PR) and temporal threshold (itll be added in upcoming commits) so its currently in the draft state. Probably we should define places in which the resolution should be

refreshed because currently it happens only when the threshold is reached. Im implementing it in a hurry due to our deadline so please be extra cautious when checking this PR.

Commit message: Change TrackableResolutionRequest to a data class, Add method for getting correct resolution from DefaultResolutionSet, Assign levels to Accuracy for comparing them, Add battery data provider, Add helper functions for distance and time difference calculations, Add default resolution policy implementation, Make resolution policy factory a required builder param, Add resolution policy, hooks and methods to the publisher, Add refreshing resolution in Publisher, Use resolution policy hooks trackables methods.

1. What is your name?

_____

2. What is your gender?

Mark only one oval

- Male

- Female

- Prefer not to say

3. How many years of experience do you have in working on software development projects, either in a company or during your PhD studies?

Mark only one oval

- 0-2 years

- 2-5 years

- 5-10 years

- 10-20 years

- More than 20 years

4. How often do you encounter issue threads that are difficult to understand due to their complexity or length?

Mark only one oval

◯ Daily

◯ Weekly

◯ Monthly

◯ Rarely

◯ Never

5. How confident are you in your ability to understand issue threads? (Scale: 1 - Not Confident, 5 - Very Confident)

Mark only one oval.

	2	3	4	5
◯	◯	◯	◯	◯

6. How much time do you typically spend trying to understand an issue thread before giving up or seeking help?

Mark only one oval

◯ Less than 5 minutes

◯ 5-15 minutes

◯ 15-30 minutes

◯ 30-60 minutes

◯ More than 60 minutes

7. Do you feel that this time spent on issue threads affects your productivity in other areas of software development?

Mark only one oval

◯

Yes

◯ No

8. Have you ever missed important information or misunderstood an issue because of the difficulty in understanding the associated thread?

Mark only one oval

◯

Yes

◯ No

9. Have you experienced project delays or missed deadlines due to the time taken in comprehending issue threads?

Mark only one oval

◯ Yes, often

◯ Yes, occasionally

◯ Rarely; Never

10. How do you currently handle issue threads that are difficult to understand? (Select all that apply)

Check all that apply.

- ☐ Try to read the entire thread carefully
- ☐ Skim the thread to get a general idea
- ☐ Ask a colleague for help
- ☐ Use a search engine to find relevant information
- ☐ Other: _____

11. In your opinion, how important is efficient management of issue threads to the overall success of a software development project?

Mark only one oval.

- ◯ Not important
- ◯ Slightly important
- ◯ Moderately important
- ◯ Very important
- ◯ Extremely important

12. How much do you think using an AI-powered summarization tool would improve your ability to understand issue threads? (Scale: 1 - Not at All, 5 - Significantly)

Mark only one oval

	2	3	4	5	
◯	◯	◯	◯	◯	

13. How likely would you be to recommend an AI-powered summarization tool to a colleague or friend? (Scale: 1 - Not Likely, 5 - Extremely Likely)

Mark only one oval

	2	3	4	5
○	○	○	○	○

14. How much time do you think an AI-powered summarization tool would save you in your daily work? (Estimate in hours per week)

Mark only one oval.

0-1 hour

1-2 hours

2-5 hours

5-10 hours

More than 10 hours

Google Forms