

Survey

This research project aim is to contribute to the enhancement of the state-of-the-art and practice on code summarization and topic modeling. By contributing to this survey, you will provide us with insights that can be leveraged to build actionable summarization and topic modeling techniques and tools to assist and guide developers during their software maintenance and evolution tasks.

* Indicates required question

Participation

You are invited to participate in this research project. After you read this document and agree to participate in the project, you will be asked to complete a questionnaire. Completing the questionnaires will take approximately 40 to 60 minutes.

Your participation is voluntary, meaning you may decline if you wish. You can cease participating at any time by leaving any remaining questions blank. You will not have to provide a reason to justify your decision. Once you have finished completing the questionnaire and submitted it, you will no longer be able to withdraw from the experiment. Since the questionnaires are anonymous, we will not be able to determine which answers are yours.

1. Consent *

Check all that apply.

- ☐ I have read and understood the project description
- ☐ I AGREE to participate by completing the questionnaires

A short background survey

2. How many years of programming experience do you have? *

Mark only one oval.

- ☐ < 2 years
- ☐ 2 - 5 years
- ☐ 5 - 10 years
- ☐ 10 - 15 years
- ☐ > 15 years

3. How many years of professional experience do you have in the industry? *

Mark only one oval.

- ☐ < 2 years
- ☐ 2 - 5 years
- ☐ 5 - 10 years
- ☐ 10 - 15 years
- ☐ > 15 years

4. What is your skill level in Android development? *

Mark only one oval.

- ☐ Beginner
- ☐ Intermediate
- ☐ Senior

5. What is your current status? *

Mark only one oval.

- ☐ Working in industry
- ☐ Working in academia
- ☐ Student
- ☐ Faculty member
- ☐ Other

In this experiment, we invite you to evaluate 3 Android problems and their potential solutions. To perform this task, you will need to follow these steps for the 3 methods:

1. Read the first problem given to you and evaluate it.
2. Read the solution for the problem given to you and evaluate it.
3. Repeat above steps for 2 more problems and solutions.
4. Answer the post-questionnaire.

`project_error_build_gradle`

Please consider the topic above and answer the following questions.

Problem

I am trying to add kotlin sources of an aar in android studio it doesnt work when I select choose sources and choose the corresponding source jar

6. The problem is related to the mentioned topic (`project_error_build_gradle`): *

Mark only one oval.

- ☐ Strongly agree
- ☐ Agree
- ☐ Disagree
- ☐ Strongly disagree

7. The problem is clear and easy to understand: *

Mark only one oval.

- ☐ Strongly agree
☐ Agree
☐ Disagree
☐ Strongly disagree

8. The problem provides enough information to understand the key elements of the issue: *

Mark only one oval.

- ☐ Strongly agree
☐ Agree
☐ Disagree
☐ Strongly Disagree

9. The length of the text describing the problem is appropriate to grasp the main issue being described: *

Mark only one oval.

- ☐ Strongly agree
☐ Agree
☐ Disagree
☐ Strongly Disagree

10. The problem text is coherent: *

Mark only one oval.

- ☐ Strongly agree
☐ Agree
☐ Disagree
☐ Strongly disagree

Solution

add classpath org.jetbrains.kotlin gradle plugin clean and build your project it worked for me

```
apply plugin: 'kotlin-android'  
apply plugin: 'kotlin-android-extensions'  
  
implementation 'org.jetbrains.kotlin:kotlin-stdlib-jdk7:1.3.21'  
implementation 'org.jetbrains.kotlinx:kotlinx-coroutines-android:1.0.0'
```

11. The recommended solution is directly related to the problem described in the initial question: *

Mark only one oval.

- ☐ Strongly agree
☐ Agree
☐ Disagree
☐ Strongly disagree

12. The solution is clear and straightforward in conveying the recommended solution? *

Mark only one oval.

- ☐ Strongly agree
☐ Agree
☐ Disagree
☐ Strongly disagree

13. The summary provides an accurate solution to the problem: *

Mark only one oval.

- ☐ Strongly agree
☐ Agree
☐ Disagree
☐ Strongly disagree

14. The code block includes the necessary code snippets or instructions to implement the recommended solution: *

Mark only one oval.

- ☐ Strongly agree
☐ Agree
☐ Disagree
☐ Strongly disagree

15. Did the inclusion of a code block enhance the overall effectiveness of the solution? *

Mark only one oval.

Not at all

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

Extremely

Post-Questionnaire

16. How would you rate the quality of the summary and the provided solution? *

Mark only one oval.

Very poor

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

Very good

17. Could you see yourself using the provided solution in a real-world scenario? *

Mark only one oval.

Not at all

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

Extremely

18. Do you see the provided problem and solution as a useful tool for addressing similar issues or problems in the future? *

Mark only one oval.

Not at all

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

Extremely

