

# Study 2: B-Assist Prototype Feedback - Survey Questions

## Consent

1. I have read and understood the information sheet provided, have asked any questions that I may have about the research, understand what will happen with my data, understand how to withdraw from the research prior to submitting my data, and consent to participate.
  - a. Accept

## Background

2. What is your job title? (Pick the closest to your title.)
  - a. Software Developer
  - b. Software Tester
  - c. Software Manager
  - d. DevX Engineer
  - e. Other (please specify)
3. How many years of programming experience do you have?
  - a. < 1 year
  - b. >1 years and < 3 years
  - c. > 3 years and < 6 years
  - d. > 6 years and < 9 years
  - e. > 9 years

**Automated Program Repair (APR)** is the automated generation of fixes for non-trivial, repetitive bugs in code. Multiple techniques have been used to achieve this, the most common being using AI to essentially learn from past human bug fixes and using these patterns to replicate fixes for new issues in similar contexts (this is used by Facebook's [Getafix](#)). Thus, APR tools are capable of creating patches for code issues without the need for any developer intervention.

4. What is your typical approach to bug fixing? Choose any that apply.
  - a. Fully manual (no help from any tools)
  - b. Using classic tools such as static analysers, debuggers and code checkers.
  - c. Using Automated Program Repair (APR) tools (e.g. Clang fixes, auto BREG removal, Fixie)
  - d. Other (please specify)

5. How often do you work with **Automated Program Repair (APR)** tools?
  - a. Always
  - b. Often
  - c. Sometimes
  - d. Rarely
  - e. Never
6. How many APR tools have you worked with?
  - a. None
  - b. One
  - c. Two
  - d. Three
  - e. More than three
7. (Free-Text) If you have used any, which APR tools have you used? (Disclaimer: Please do not include any sensitive or identifiable personal information in your answers)
8. How important do you think automated bug fixing is in terms of speeding up the code review process?
  - a. Very important
  - b. Important
  - c. Somewhat important
  - d. Not very important
  - e. Not important

## Feedback

9. (Free-Text) What types of issues (e.g. formatting, missing/unused imports, potential null references, etc.) would you like B-Assist to present fixes for? (Disclaimer: Please do not include any sensitive or identifiable personal information in your answers)
10. (Free-Text) What additional features or changes would you recommend to improve the B-Assist user experience? (Disclaimer: Please do not include any sensitive or identifiable personal information in your answers)
11. (Free-Text) Do you have any suggestions on how to improve the presentation of B-assist fixes? (Disclaimer: Please do not include any sensitive or identifiable personal information in your answers)
12. (Free-Text) Do you have any additional comments regarding the tool? (Disclaimer: Please do not include any sensitive or identifiable personal information in your answers)