UX 3
Research Questions

Problem Statement

How to integrate the results of Multiple Static Analysis Tools in a Unified User Interface?

Research Question 1

How to display the results of same code base from different analysis tools?

[Results View]

1.1 Do users need pie chart for results overview?

Evaluation: with pie chart navigating to table view of results vs without pie chart overview

1.2 Do users prefer tool centred pie chart to bugs type centred pie chart?

Evaluation: tools based pies vs bug categories based pies

Bug categories are the ones found from the research paper of Maria et. al. (What developers want and need from program analysis?) i.e., Security, best practices, concurrency, memory consumption etc.

[Code View]

As number of tools increases, the bug findings in a code file are likely to increase.

1.3 Could a 'show-bugs' button in a code file help user to be in state of flow of current task being performed?

Evaluation: a code file with bug icons vs with a 'show-bugs' button that toggles display of icons.

1.4 If show bugs need a filter, then which filter is preferred among tool-centric and bugs type centric?

Evaluation: show-button - tools based filter vs bugs categories based filter

Research Question 2

What feedback works to know that bug fixing is on-going?

#TODO

Research Question 3

How to carry traceability of bug fixing?

[Results View]

3.1 Do users prefer icon for previously attempted bug fixes to separate list?

Evaluation: retry icon at bug name in table vs separate table

[Code View]

3.2 Does user prefer multiple windows of previous bug fixes in a section of code i.e., a method (Before/After) or a single window?

Evaluation: trace navigation for a method with multiple windows vs a single window