

### Codes from User Interviews

Theme	Code	Definition
Analysis Triggering Mechanism	Code Uploading Analysis Triggering Partial Code Uploading Analysis Termination Time of Uploading Time of Analysis Triggering Time of Looking for Issues	How should the code be uploaded How should the analysis be triggered Expectation on uploading partial code Whether analysis should be able to interrupted/terminated When should the code be uploaded When is the time to trigger analysis When to look for issues
Result Retrieval Mechanism	Acquisition of Warnings Partial Code Uploading Analysis Scope Analysis Time Time of Warning Display	How should warnings be obtained from the cloud Expectation on uploading partial code Which parts of the code should be analyzed and which warnings should be shown How long the time should take When should the warnings be displayed
Result Display Mechanism	Warning Appearance Warning Classification Display of Invalid Warnings	Where should the warnings be displayed and how should the warnings look like? Whether and how should the warnings be classified or labelled with severities Whether and how should the invalid (old) warnings be displayed due to latency
UX Features	Configuration Other IDE Features	What configuration options should be provided Other common IDE features such as fixes, warning suppression
Workflow Integration	Team Features Habit Time of Fixing Issues Time of Looking for Issues IDE Usage Other Static Analysis Tools	Features that are useful for the team Working habit When to fix issues When to look for issues Which IDE the developer uses Experience with other static analysis tools

### Codes from Usability Test

1. Dimension		
Theme	Code	Definition
Analysis Triggering Mechanism	Code Uploading (IDE/Web) Time of Analysis Triggering (IDE/Web) Analysis Triggering (IDE/Web)	See definition above See definition above See definition above
Result Retrieval Mechanism	Acquisition of Warnings (IDE) Analysis Time (IDE/Web) Analysis Scope (IDE/Web) Time of Warning Display (IDE/Web)	See definition above See definition above See definition above See definition above
Result Display Mechanism	Warning Classification (IDE/Web) Warning Appearance (IDE/Web) Display of Invalid Warnings (IDE) Quality of the analysis result View switching (Web)	See definition above See definition above See definition above Comments on the quality of analysis result Developers mentioned switching between IDE and web browser
UX Features	Other IDE Features Other Web Features	See definition above Other features for Web mentioned by developers

	Configuration (IDE/Web)	See definition above
Workflow Integration	Habit Other Static Analysis Tools Time of Looking for Issues (IDE/Web) IDE Usage Perception on workflow (IDE/Web) Tool preference Why and when to give feedback	See definition above See definition above See definition above See definition above Developers talked about their perception on the workflow Developers talked about their preference in IDE or Web Developers talked about why and when they gave feedback to a finding (thumb up/down)
Issues and Causes	Don't read (IDE/Web) Tutorial required (IDE/Web) Technical issue (IDE/Web) Confusion (IDE/Web) Study setup Other comment (IDE/Web)	Developers mentioned that they didn't read pop-ups or user guides Developers mentioned that they didn't understand how a feature works Technical issue caused by the tools, e.g. failed to push code due to configuration of git credentials Developers mentioned that they were confused. Developers mentioned issues due to study setup, e.g. too many issues for too less time Other comments given by developers
<b>2. Dimension</b>		
	Positive feedback Negative feedback	Positive feedback from developers Negative feedback from developers