ExpNote: Consent Form and Pre-Questionnaire

This form is used to sign up for a study on the expressiveness and scalability of program analysis tools.

To complete this study, you must:
  - Have experience using Eclipse IDE
  - Be familiar with FindBugs and/or EclEmma
  - Be at least 18 years of age
* Required

By the definition above, I am eligible to participate. *

○ Yes

○ No

[Continue »]

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* Required

Consent Form

North Carolina State University
INFORMED CONSENT FORM for RESEARCH
Title of Study: Expressive and Scalable Notifications for Program Analysis Tools

Principal Investigator: Brittany I. Johnson

Faculty Sponsor: Emerson Murphy-Hill and Sarah Heckman

What are some general things you should know about research studies?
You are being asked to take part in a research study. Your participation in this study is voluntary. You have the right to be a part of this study, to choose not to participate or to stop participating at any time without penalty. The purpose of research studies is to gain a better understanding of a certain topic or issue. You are not guaranteed any personal benefits from being in a study. Research studies also may pose risks to those that participate. In this consent form you will find specific details about the research in which you are being asked to participate. If you do not understand something in this form it is your right to ask the researcher for clarification or more information. A copy of this consent form will be provided to you. If at any time you have questions about your participation, do not hesitate to contact the researcher
 named above.

What is the purpose of this study?
Research and industry have shown that program analysis tools, such as static analysis tools and refactoring tools, can be have a huge effect on the quality of software. Program analysis tools communicate with software developers through notifications but these notifications suffer from two problems: they are often not expressive enough so developers waste time trying to understand what the tool is telling them, and often not scalable so the developer is forced to fight off numerous notifications before finding the most useful ones. Our research aims to observe and understand the methods programmers use to explain and understand program analysis tool notifications.

What will happen if you take part in the study?
If you agree to participate in this study, you will be asked to explain 18 different program analysis tool notifications from Eclipse's compiler, FindBugs and EclEmma. Notifications can be explained in a variety of ways, including pointing, gesturing, drawing or coding. One session lasts approximately 1 hour and will be recorded Audacity for audio recording and Camtasia for screen recording.

Risks
There are no risks we foresee in conducting this user study.

Benefits
There will be no direct benefits to you for your participation in this study. We will use the information we gather from this study as a basis for the design of tools and activities that would be available to software developers.

Confidentiality
Information we obtain in the study will be kept confidential to the fullest extent allowed by law. Data , including video recordings, will be stored securely in a locked laboratory and on password secure servers. For your protection, we do not plan to include your face or mention your name in any recordings. We will maintain a confidential spreadsheet that links the real names and email addresses of participants with an assigned pseudo-name that will be used in publications. This spreadsheet will be kept entirely separately from any comments you make during the study. You will be given the opportunity to allow the researchers to anonymously publish some or all the data.

Compensation
You will not receive anything for participating.

What if you have questions about this study?
If you have questions at any time about the study or the procedures, you may contact the researchers, Brittany Johnson, at EB II 3222 / [919/817-8371].

What if you have questions about your rights as a research participant?
If you feel you have not been treated according to the descriptions in this form, or your rights as a participant in research have been violated during the course of this project, you may contact Deb Paxton, Regulatory Compliance Administrator, Box 7514, NCSU Campus (919/515-4514).

May we record your session for future analysis (screen and audio)? *
Only the PI will be analyzing the recordings; once analyzed, the recordings will be destroyed any relevant data will be stored on password-protected servers.

○ Yes

○ No

Informed Consent *

☐ "I have read and understand the above information. I can save a copy of this webpage for my records. I agree to participate in this study with the understanding that I may choose not to participate or to stop participating at any time without penalty or loss of benefits to which I am otherwise entitled."

Email Address *

[   ]

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* Required

Pre-Questionnaire
Before participating in the study, we would like to know a few things about you.

Which of the following Integrated Development Environments (IDEs) for Java have you used? *
For more information, please visit
http://en.wikipedia.org/wiki/Comparison_of_integrated_development_environments#Java

- ☐ BlueJ
- ☐ Eclipse
- ☐ Greany
- ☐ Greenfoot
- ☐ IntelliJ IDEA
- ☐ JBuilder
- ☐ JCreator
- ☐ JDeveloper
- ☐ KDevelop
- ☐ NetBeans
- ☐ Rational Application Developer
- ☐ Servoy
- ☐ XCode
- ☐ Other: [   ]

Which of the following automated program analysis tools for Java have you used? *
For more information, please visit
http://en.wikipedia.org/wiki/List_of_tools_for_static_code_analysis

- ☐ FindBugs
- ☐ PMD
- ☐ CheckStyle
- ☐ Eclipse built-in refactoring tool
- ☐ EclEmma
- ☐ Cobertura
- ☐ Soot
- ☐ JTest
- ☐ Sonar J
- ☐ Other: [   ]

How often do you use... *

	Every day.	More often than not.	Every once in a while.	Rarely.	Never.
Eclipse IDE	○	○	○	○	○
Java Compiler	○	○	○	○	○
FindBugs	○	○	○	○	○
EclEmma	○	○	○	○	○

How many years of software development experience do you have? *
Please enter a number in years. (e.g. 2 or 3.5)

[   ]

How many years of experience do you have using Eclipse IDE? *
Please enter a number in years. (e.g. 2 or 3.5)

[   ]

How many years of experience do you have using Java compiler? *
Please enter a number in years. (e.g. 2 or 3.5)

[   ]

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Submit Form
If you are satisfied with your answers, please use the submit button below.

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