

Appendix A

Introductory Session

- Q1** what is your name?
- Q2** How much experience do you have?
- Q3** what is name of your organization
- Q4** what is your role in the organization?
- Q5** what is the nature of your organization?
- Q6** Do you perform maintenance?
- Q7** which programming language used in your organization?

Focused Session

Program comprehension means understanding the existing system (code and documentation)

- Q:** How do you perform program comprehension?
- Q:** Which factors do you search for comprehending the code?
- Q:** What is your initial input for program comprehension?
- Q:** If you are getting artifact from requirement what kind of artifact will be used as an input?
- Q:** What kind of analysis do you perform for locating the concepts?
- Q:** How you start locating the concept in a program code?

Cognitive Model

- Q:** How you understand the system by utilizing mental model (temporary information and reasoning)?
- Q:** How experience helps you to create mental model?

With experience, it's easy to find learned similarities faster than before.

- Q:** Do comment play any role in comprehension? (If yes then how?)
- Q:** Do concepts plays any role?

Beacons

- Q:** Beacons paly any role in your understanding? (If yes then how)

Bottom up comprehension

Q: Do you use bottom up approach? (If yes then how?).

Q: How do you read the code in bottom up approach?

Q: Do you create chunks?

Q: How do you create chunks? What is your input?

Q: How do you categorized the chunks?

Q: How do you check relation between the codes?

Q: Do you categorized the chunks?

Q: Which input is required to categorize the chunks?

Static Analysis:

Q Do you perform static analysis? (If no which analysis do you perform and how?)

Q: Who will perform static analysis?

Q: How he will perform this analysis?

Q: What is your starting point for static analysis?

Data Sources

Q: Do you check data sources? (If yes then how?)

Q: Which data sources you feel effective? (data dependencies, artifacts, developer's feedback etc.)

Q: What are expected outputs of your analysis and why?

Q: How do you locate a specific concept?

Q: How static analysis play a role to locate a concept?