Architecture Documentation Study

In the questions which follow, please answer to the best of your ability.

1. Do you consent to have your answers included in the research study?

   Mark only one oval.

   ◯ Yes

   ◯ No

2. Write down a secret code to track your answer sheet if you want to to withdraw your consent later (e.g. house/apt number + name of favourite game). DO NOT USE YOUR STUDENT ID or other identifying information.

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3. Which document type are you using? (written in the title of arch. document)

   Mark only one oval.

   ◯ Type E

   ◯ Type V

4. What university are you studying at?

Mark only one oval.

⬭ McGill University

⬭ University of Victoria

5. How long have you been programming, including in coursework?

Mark only one oval.

⬭ Less than 1 year

⬭ 1-2 years

⬭ 3-5 years

⬭ More than 5 years

6. Describe in your own words in which situation we should use the Observer pattern (aka Pub-Sub).

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7. Have you taken any upper-level (3rd year+, 300- or higher) software design courses?

   Mark only one oval.

   ◯ Yes

   ◯ No

8. What is your previous exposure to the tool JetUML?

   Check all that apply.

   ☐ I have never heard of JetUML
   ☐ I have used JetUML once or twice
   ☐ I have used JetUML frequently
   ☐ I have looked at JetUML source code and/or documentation before this
   Other: ☐ _____

9. What programming languages are you comfortable with? Check all that apply.

   Check all that apply.

   ☐ C/C++
   ☐ Java
   ☐ Python
   ☐ C#
   ☐ Javascript
   Other: ☐ _____

10. What software experience do you have? Check all that apply.

Check all that apply.

☐ I have taken several undergraduate courses in software engineering.
☐ I have done software engineering as an intern or co-op student.
☐ I worked, or I am working, as a software developer, outside of co-op or internships.

11. What is your level of experience with UML, the Unified Modeling Language?

Check all that apply.

☐ I have never used UML.
☐ I have used UML in course work.
☐ I have read UML diagrams in industry.
☐ I have created UML diagrams in industry.

12. What is your reading proficiency in English?

Mark only one oval.

◯ Fluent
◯ Modest
◯ Limited

13. Which module contains the code for starting the application?

Mark only one oval.

- ◯ Diagram Model
- ◯ Application
- ◯ User Interface
- ◯ I could not tell
- ◯ Other: _____

14. How did you determine the answer to the previous question? Please describe which document, on-line resource, source code comment, or other artifact you have used to answer. Please be specific and include a link to the artifact, and indicate the location in the artifact that contains the relevant information. You can include more than one location.

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15. What are the architectural responsibilities of the Services layer?

16. How did you determine the answer to the previous question? Please describe which document, on-line resource, source code comment, or other artifact you have used to answer. Please be specific and include a link to the artifact, and indicate the location in the artifact that contains the relevant information. You can include more than one location.

17. How would one add a new diagram type (e.g., component diagrams) to JetUML?

18. How did you determine the answer to the previous question? Please describe which document, on-line resource, source code comment, or other artifact you have used to answer. Please be specific and include a link to the artifact, and indicate the location in the artifact that contains the relevant information. You can include more than one location.

19. How would you add a status bar to the area that shows a diagram?

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20. How did you determine the answer to the previous question? Please describe which document, on-line resource, source code comment, or other artifact you have used to answer. Please be specific and include a link to the artifact, and indicate the location in the artifact that contains the relevant information. You can include more than one location.

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21. Consider a scenario where you are asked to implement collaborative diagram editing in JetUML. What parts of the architecture would be involved in this change?

22. How did you determine the answer to the previous question? Please describe which document, on-line resource, source code comment, or other artifact you have used to answer. Please be specific and include a link to the artifact, and indicate the location in the artifact that contains the relevant information. You can include more than one location.

23. Describe how would you support the creation of an API from the existing code to convert JSON diagram descriptions into images programmatically, i.e., without having to go through the user interface.

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24. How did you determine the answer to the previous question? Please describe which document, on-line resource, source code comment, or other artifact you have used to answer. Please be specific and include a link to the artifact, and indicate the location in the artifact that contains the relevant information. You can include more than one location.

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25. Given what you have now read on JetUML, what is your general impression of the technical and architectural quality of the software?

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26. How did you determine the answer to the previous question? Please describe which document, on-line resource, source code comment, or other artifact you have used to answer. Please be specific and include a link to the artifact, and indicate the location in the artifact that contains the relevant information. You can include more than one location.

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27. Please rate your level of agreement with the following statements.

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I thought the document was easy to navigate.	◯	◯	◯	◯	◯
I think that I would need assistance to be able to use this document.	◯	◯	◯	◯	◯
I thought there was too much inconsistency in the architecture document.	◯	◯	◯	◯	◯
I needed to learn a lot of things before I could get going with this document.	◯	◯	◯	◯	◯
This document gave me a good sense for JetUML's vision.	◯	◯	◯	◯	◯
I would imagine that most readers would learn to use this document very quickly.	◯	◯	◯	◯	◯
I could see using this document while writing JetUML source code.	◯	◯	◯	◯	◯

28. Please share your general impression of the effectiveness of the document you consulted.

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Google Forms