Diagnosing Design Problems: Pre-experiment

1. **Name:** *

   _____

2. **ID Number:**

   _____

3. **Date:** *

   _____
   Example: December 15, 2012

4. **Where do you Live?** *
   examples: Curitiba, Brazil - London, UK

   _____

5. **What is your current position?** *
   examples: Software Developer, Project Manager, Technical Leader, Consultant

   _____

6. **Experience with software development (in years):** *

   _____

7. **Do you have formal education in computer science?** *
   (College, University, etc)
   Mark only one oval.

   ( ) Yes

   ( ) No   *Skip to question 11.*

Formal Education

8. **select your current degree:** *
   Mark only one oval.

   ( ) Technologist

   ( ) Graduate

   ( ) Master

   ( ) PhD

Apache OODT

9. **Do you know Apache OODT (Object Oriented Technology)?** *
   Mark only one oval.

   ○ Yes

   ○ No

10. **Have you ever read Apache OODT's source code?** *
    Mark only one oval.

    ○ Yes

    ○ No

Experience

"Software Design: The overall organization of functionalities into methods, classes, relationships and components (or packages)." Given the provided definition for software design, answer the question below:

11. **Have you ever been responsible for design decisions on any object-oriented system?** *
    Mark only one oval.

    ○ Yes

    ○ No

Please fill the following fields with information about the most complex project in which you were/are responsible for design decisions (you can use approximated values if you don't know exactly)

12. **Number of Developers:** *

    _____

13. **Number of Versions:** *

    _____

14. **Size (lines of code):** *

    _____

Knowledge

Rate your knowledge about the following concepts and technologies, using the criteria described in Table I:

Table I. Classification criteria

Classification	Description
None	I have **never heard about it**
Minimum	I have heard about it, but **do not use it**
Basic	I have a **general understanding**, but **almost never use it**
Intermediary	I have a **good understanding**, and **use it sometimes**
Advanced	I have a **deep understanding**, and **often use it**
Expert	I am a **specialist** in this subject, and **use it almost every day**

15. **Source Code Metrics:** *
   Mark only one oval.

   - ( ) None
   - ( ) Minimum
   - ( ) Basic
   - ( ) Intermediary
   - ( ) Advanced
   - ( ) Expert

16. **Code Anomalies (a.k.a. Code Smells):** *
   Mark only one oval.

   - ( ) None
   - ( ) Minimum
   - ( ) Basic
   - ( ) Intermediary
   - ( ) Advanced
   - ( ) Expert

17. **Software Anti-patterns:** *

- ( ) None
- ( ) Minimum
- ( ) Basic
- ( ) Intermediary
- ( ) Advanced
- ( ) Expert

18. **Refactoring:** *

- ( ) None
- ( ) Minimum
- ( ) Basic
- ( ) Intermediary
- ( ) Advanced
- ( ) Expert

19. **Object-Oriented Design:** *

- ( ) None
- ( ) Minimum
- ( ) Basic
- ( ) Intermediary
- ( ) Advanced
- ( ) Expert

20. **Design Patterns:** *

- ( ) None
- ( ) Minimum
- ( ) Basic
- ( ) Intermediary
- ( ) Advanced
- ( ) Expert

21. **UML:** *

Mark only one oval.

- ( ) None
- ( ) Minimum
- ( ) Basic
- ( ) Intermediary
- ( ) Advanced
- ( ) Expert

22. **Java 6 (Programming Language):** *

Mark only one oval.

- ( ) None
- ( ) Minimum
- ( ) Basic
- ( ) Intermediary
- ( ) Advanced
- ( ) Expert

23. **Java EE:** *

Mark only one oval.

- ( ) None
- ( ) Minimum
- ( ) Basic
- ( ) Intermediary
- ( ) Advanced
- ( ) Expert

24. **Eclipse IDE:** *

Mark only one oval.

- ( ) None
- ( ) Minimum
- ( ) Basic
- ( ) Intermediary
- ( ) Advanced
- ( ) Expert

25. **Other OO Programming Language:**

Mark only one oval.

○ None

○ Minimum

○ Basic

○ Intermediary

○ Advanced

○ Expert

26. **Specify:**

_____