

My Report

Last Modified: 08/25/2015
 Completion Status: Completed

1. 1. What is your current position?

#	Answer	Bar	Response	%
1	Undergraduate Student		1	13%
2	Graduate Student		2	25%
3	Developer		2	25%
4	Faculty		0	0%
5	Other		3	38%
	Total		8	

Other
software engineering research scientist
Industry Researcher
Industry researcher

Statistic	Value
Min Value	1
Max Value	5
Mean	3.25
Variance	2.50
Standard Deviation	1.58
Total Responses	8

2. 2. Do you have industry working experience?

#	Answer	Bar	Response	%
1	Yes		7	88%
2	No		1	13%
	Total		8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.13
Variance	0.13
Standard Deviation	0.35
Total Responses	8

3. 3. What is your year of experience on Java programming?

#	Answer	Bar	Response	%
1	Less than a year		3	38%
2	1 - 2 years		1	13%
3	2 - 5 years		2	25%
4	more than 5 years		2	25%
	Total		8	

Statistic	Value
Min Value	1
Max Value	4
Mean	2.38
Variance	1.70
Standard Deviation	1.30
Total Responses	8

4. Please make sure that you have downloaded all the requirement files since you cannot go back to this page.

#	Answer	Bar	Response	%
1	Yes		8	100%
	Total		8	

Statistic	Value
Min Value	1
Max Value	1
Mean	1.00
Variance	0.00
Standard Deviation	0.00
Total Responses	8

5. Q1.1 Please write a database related summary for the method write2DB(XincoDBManager) in Class com.bluecubs.xinco.add.server.XincoAddAttributeServer

Text Response
Write the following fields to Table xinco_add_attribute. core_data_id, Attribute_id, Attrib_int, Attrib_unsignedint, Attrib_double, Attribute char variable, Attribute text, Attribute date and time
Insert attributes into xinco_add_attribute
insert date time information attribute into database
Adds a new entry into table xinco_add_attribute
Adds a new row to the xinco_add_attribute table within XincoDBManager DBM. This contains the xinco_core_data_id, attribute_id, and various attribute values specified in this object.
Write in to db a new attribute, have as param the db conection XincoDBManager, and returns 1 if all it's ok
Executes an INSERT statement, the length of the varchar field and text fields should be considered.
Insert in the table xinco_add_attribute

Statistic	Value
Total Responses	8

6. Q1.2 Please write a database related summary for the method removeFromDB(XincoDBManager, int, int) in Class com.bluecubs.xinco.core.server.XincoCoreDataServer

Text Response
From xinco_core_log, xinco_core_ace, and xinco_add_attribute, remove all the data entries whose id is input id.
delete entries with id 'id' from xinco_core_log, xinco_core_ace and xinco_add_attribute
delete a record of given user id from tables xinco_core_log, xinco_core_ace, and xinco_add_attribute
Deletes entries with xinco_core_data_id 'id' from tables xinco_core_log, xinco_core_ace, xinco_add_attribute
Deletes from the tables xinco_core_log, xinco_core_ace, and xinco_add_attribute any rows where xinco_core_data_id is equal to the supplied id.
Delete from db all the fields related with a attribute by id, have as params a db conection XincoDBManager, the user id UserId and the attribute id.
Executes three DELETE statements and performs a ROLLBACK if an exception occurred while executing them.
Delete data form tables: xinco_core_log, xinco_core_ace, xinco_add_attribute by ID

Statistic	Value
Total Responses	8

7. Q1.3 Please write a database related summary for the method XincoCoreDataServer(int, XincoDBManager) in Class com.bluecubs.xinco.core.server.XincoCoreDataServer

Text Response
Get all the data entries whose ids are input attrID. Initialize the XincoCoreDataServer with all these data.
Skip - time out
initialize a XincoCoreDataServer with information of a record selected from xinco_core_data given attribute ID
Retrieves entries from xinco_core_data with id 'attrID' from all tables
Retrieves all rows from xinco_core_data where id is equal to attrID, and initializes a new XincoCoreDataServer object. This method loads the values from fields id, xinco_core_node_id, xinco_core_language_id, xinco_core_data_type_id; loads the logs with the indicated id, designation and status_number; and loads the acl with the indicated id and xinco_code_data_id.
Create all attribute related data structured based on attrID
Executes one SELECT statement. The id provided must exist or the method will throw an exception
Select data from table xinco_core_data for a given ID

Statistic	Value
Total Responses	8

8. Q1.4 Please write a database related summary for the method removeFromDB(XincoCoreACE, XincoDBManager, int) in Class com.bluecubs.xinco.core.server.XincoCoreACEServer

Text Response
Delete from xinco_core_ace all the data entries whose id is the same as input attrCACE's.
delete entries with id 'id' from xinco_core_log, xinco_core_ace and xinco_add_attribute
delete a record from xinco_core_ace given a XincoCoreACE attribute ID
Deletes entries from xinco_core_ace with id 'attrCACE.getId()'
Skip - time out
Remove from DB an specific kind of attribute based on the attribute itself and the userID
Skip - time out
Delete data form table xinco_core_ace for a given ID

Statistic	Value
Total Responses	8

9. Q1.5 Please write a database related summary for the method doGet(HttpServletRequest, HttpServletResponse) in Class com.bluecubs.xinco.server.XincoPublisherServlet

Text Response
Too complicated. Skip.
Skip - time out
Processes requests for both HTTP GET and POST methods
Skip --- too complex
Skip - time out
General abstraction to manage http requests.
Executes one SELECT statement through delegation.
Invoke a method to process a request. The processRequest method created an fill up a form with data form the tables: xinco_core_data xcd, xinco_core_ace xca, xinco_core_log xcl

Statistic	Value
Total Responses	8

10. Q1.6 Please write a database related summary for the method removeXincoCoreACE(com.bluecubs.xinco.core.XincoCoreACE, com.bluecubs.xinco.core.XincoCoreUser) in Class com.bluecubs.xinco.service.XincoSoapBindingImpl

Text Response
Too complicated. Skip.
connect to DB as user and, if admin, remove ACE from database
Skip - time out
Skip -- time out
Skip - time out
s
Skip - time out
Check access grants and if the connected user is admin, delete a user from table: xinco_core_ace

Statistic	Value
Total Responses	8

11. Q1. Only focusing on the content of the description without considering the way it has been presented, do you think the message is complete?

#	Answer	Bar	Response	%
1	The description does not miss any important information.		4	50%
2	The description misses some important information to understand the database-related operations		4	50%
3	The description misses the majority of the important information to understand the database-related operations		0	0%
Total			8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.50
Variance	0.29
Standard Deviation	0.53
Total Responses	8

12. Q2. Only focusing on the content of the description without considering the way it has been presented, do you think the message is concise?

#	Answer	Bar	Response	%
1	The description contains no redundant/useless information.		7	88%
2	The description contains some redundant/useless information.		1	13%
3	The description contains a lot of redundant/useless information.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.13
Variance	0.13
Standard Deviation	0.35
Total Responses	8

13. Q3. Only focusing on the content of the description without considering the completeness and conciseness, do you think the description is expressive?

#	Answer	Bar	Response	%
1	The description is easy to read and understand.		6	75%
2	The description is somewhat readable and understandable.		2	25%
3	The description is hard to read and understand.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.25
Variance	0.21
Standard Deviation	0.46
Total Responses	8

14. Q4: Please provide the rationale for your answers to Q1 to Q3. (Open question)

Text Response

It missed what was inserted, the format of the strings that are inserted.

I easily understand what the method does when reading the description

I think people may care about what specific information (e.g., date time) are to be inserted more than the number of columns that are to be inserted (in this example, 8)

The description is mostly very good. However, it states that the method "inserts values for the first 8 columns into table XINCO_ADD_ATTRIBUTE". It doesn't explain what these columns are, or whether these are all the columns in the table. Are there other columns that this method does not write?

Q1, the description have all information that i could need for have into account to use this method, Q2, the information presented in the description is completely specific and I think that i won't need more for use this method, Q3 having into account that the description is specific and has all relevant information that i need, for me it's understandable

The description reads "Some constraints that should be taken into the account" while the correct way to say it would be "Some constraints that should be taken into account". Additionally, some more information about database structure would help get the message accross more effectively, for example, displaying the structure of the tables involved in the operation highlighting the columns that get affected, including foreign keys.

The constraint description about overflow is not necessary.

Statistic	Value
Total Responses	7

15. Q1. Only focusing on the content of the description without considering the way it has been presented, do you think the message is complete?

#	Answer	Bar	Response	%
1	The description does not miss any important information.		1	13%
2	The description misses some important information to understand the database-related operations		6	75%
3	The description misses the majority of the important information to understand the database-related operations		1	13%
Total			8	

Statistic	Value
Min Value	1
Max Value	3
Mean	2.00
Variance	0.29
Standard Deviation	0.53
Total Responses	8

16. Q2. Only focusing on the content of the description without considering the way it has been presented, do you think the message is concise?

#	Answer	Bar	Response	%
1	The description contains no redundant/useless information.		7	88%
2	The description contains some redundant/useless information.		1	13%
3	The description contains a lot of redundant/useless information.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.13
Variance	0.13
Standard Deviation	0.35
Total Responses	8

17. Q3. Only focusing on the content of the description without considering the completeness and conciseness, do you think the description is expressive?

#	Answer	Bar	Response	%
1	The description is easy to read and understand.		7	88%
2	The description is somewhat readable and understandable.		1	13%
3	The description is hard to read and understand.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.13
Variance	0.13
Standard Deviation	0.35
Total Responses	8

18. Q4: Please provide the rationale for your answers to Q1 to Q3. (Open question)

Text Response

Missed what are removed.

The description does not explain the purpose of the attributes and so which rows are deleted

it basically matches what I have manually created

The summary should indicate the field/key used to identify the rows to be deleted.

The description states that the method deletes rows from various tables, but does not indicate which rows.

Q1. The description says what the method does but I don't have any idea about the relation of the three tables on which it's going to work. Q2, the information is completely precise and have the minimum information that i could required. Q3. it's understandable the information if we aren't focusing in the completeness of the information (this haven into account the relations of the tables mentioned in answer of Q1)

The description states that "rows" get deleted from three tables, but it doesn't give enough information to determine the rationale by which these rows are deleted or even which exact rows are affected.

To note that the deleted is by Id could be helpful

Statistic	Value
Total Responses	8

19. Q1. Only focusing on the content of the description without considering the way it has been presented, do you think the message is complete?

#	Answer	Bar	Response	%
1	The description does not miss any important information.		4	50%
2	The description misses some important information to understand the database-related operations		4	50%
3	The description misses the majority of the important information to understand the database-related operations		0	0%
Total			8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.50
Variance	0.29
Standard Deviation	0.53
Total Responses	8

20. Q2. Only focusing on the content of the description without considering the way it has been presented, do you think the message is concise?

#	Answer	Bar	Response	%
1	The description contains no redundant/useless information.		8	100%
2	The description contains some redundant/useless information.		0	0%
3	The description contains a lot of redundant/useless information.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	1
Mean	1.00
Variance	0.00
Standard Deviation	0.00
Total Responses	8

21. Q3. Only focusing on the content of the description without considering the completeness and conciseness, do you think the description is expressive?

#	Answer	Bar	Response	%
1	The description is easy to read and understand.		8	100%
2	The description is somewhat readable and understandable.		0	0%
3	The description is hard to read and understand.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	1
Mean	1.00
Variance	0.00
Standard Deviation	0.00
Total Responses	8

22. Q4: Please provide the rationale for your answers to Q1 to Q3. (Open question)

Text Response

Same as for the previous one, it does not take into account the parameter and so we don't know what it queries

it provides more details than what I have manually created

The summary should indicate the field/key used to query the tables.

Q1. With the information provided in the description is enough to know how use the method and which tables are related, Q2 this method has the minimum information required for, describe each of the queries that the method uses. Q3 because do you knows the methods and technique that used the method for accomplish his work

The description would be much more useful if it provided the logic used to query the database so the reader could more or less know which rows would be returned by the queries.

To note that the query is by Id could be helpful.

Statistic	Value
Total Responses	6

23. Q1. Only focusing on the content of the description without considering the way it has been presented, do you think the message is complete?

#	Answer	Bar	Response	%
1	The description does not miss any important information.		5	71%
2	The description misses some important information to understand the database-related operations		2	29%
3	The description misses the majority of the important information to understand the database-related operations		0	0%
Total			7	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.29
Variance	0.24
Standard Deviation	0.49
Total Responses	7

24. Q2. Only focusing on the content of the description without considering the way it has been presented, do you think the message is concise?

#	Answer	Bar	Response	%
1	The description contains no redundant/useless information.		5	71%
2	The description contains some redundant/useless information.		2	29%
3	The description contains a lot of redundant/useless information.		0	0%
Total			7	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.29
Variance	0.24
Standard Deviation	0.49
Total Responses	7

25. Q3. Only focusing on the content of the description without considering the completeness and conciseness, do you think the description is expressive?

#	Answer	Bar	Response	%
1	The description is easy to read and understand.		5	71%
2	The description is somewhat readable and understandable.		2	29%
3	The description is hard to read and understand.		0	0%
	Total		7	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.29
Variance	0.24
Standard Deviation	0.49
Total Responses	7

26. Q4: Please provide the rationale for your answers to Q1 to Q3. (Open question)

Text Response

Goes too far in details on how it delete rows, but does not say which rows are deleted

it provides more details than what I have manually created

Wording could be more concise, e.g., "Make sure the values of attribute XINCO_CORE_USER_MODIFIED_RECORD.record_id satisfy the UNIQUENESS constraint"

Q1. The descriptions has the relations that could be necessary for know how use the method, in addition with the contraits to having into account, Q2, relation between tables, constraints to having into account, and methods related with this method, I think that it's the basic and sufficient information that someone could required. Q3. Based on his specificity it's easy for understand.

The description does a good job explaining exactly which columns are affected by the operations.

To note that the deleted data is by Id could be helpful.

Statistic	Value
Total Responses	6

27. Q1. Only focusing on the content of the description without considering the way it has been presented, do you think the message is complete?

#	Answer	Bar	Response	%
1	The description does not miss any important information.		5	63%
2	The description misses some important information to understand the database-related operations		1	13%
3	The description misses the majority of the important information to understand the database-related operations		2	25%
Total			8	

Statistic	Value
Min Value	1
Max Value	3
Mean	1.63
Variance	0.84
Standard Deviation	0.92
Total Responses	8

28. Q2. Only focusing on the content of the description without considering the way it has been presented, do you think the message is concise?

#	Answer	Bar	Response	%
1	The description contains no redundant/useless information.		7	88%
2	The description contains some redundant/useless information.		1	13%
3	The description contains a lot of redundant/useless information.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.13
Variance	0.13
Standard Deviation	0.35
Total Responses	8

29. Q3. Only focusing on the content of the description without considering the completeness and conciseness, do you think the description is expressive?

#	Answer	Bar	Response	%
1	The description is easy to read and understand.		8	100%
2	The description is somewhat readable and understandable.		0	0%
3	The description is hard to read and understand.		0	0%
Total			8	

Statistic	Value
Min Value	1
Max Value	1
Mean	1.00
Variance	0.00
Standard Deviation	0.00
Total Responses	8

30. Q4: Please provide the rationale for your answers to Q1 to Q3. (Open question)

Text Response

Basically I don't know what the method does. But I think the autogenerated message misses the relationships among the different queries.

Says how the method is doing what it does, but not what it is actually doing

Given the complexity of the method (i.e., the manner in which it interacts with the DB), the lack of contextual information about the query (i.e., what fields/keys are used for the queries) is forgivable.

Seems clear and easy to understand

Q1. The description has the information about what others method the method use, and which relations database are involved, with this information you can know what are you using. Q2. The information used for the description is very specific for each method and relation involved, for that it's not redundant. Q3. Yes the methods and relations that going to be used for the method are described in a good way.

An outline of the logic used to query the database that would help understand the rows that the method queries would be useful.

The tool provide more useful information than I could see.

Statistic	Value
Total Responses	7

31. Q1. Only focusing on the content of the description without considering the way it has been presented, do you think the message is complete?

#	Answer	Bar	Response	%
1	The description does not miss any important information.		6	75%
2	The description misses some important information to understand the database-related operations		2	25%
3	The description misses the majority of the important information to understand the database-related operations		0	0%
Total			8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.25
Variance	0.21
Standard Deviation	0.46
Total Responses	8

32. Q2. Only focusing on the content of the description without considering the way it has been presented, do you think the message is concise?

#	Answer	Bar	Response	%
1	The description contains no redundant/useless information.		6	75%
2	The description contains some redundant/useless information.		2	25%
3	The description contains a lot of redundant/useless information.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	2
Mean	1.25
Variance	0.21
Standard Deviation	0.46
Total Responses	8

33. Q3. Only focusing on the content of the description without considering the completeness and conciseness, do you think the description is expressive?

#	Answer	Bar	Response	%
1	The description is easy to read and understand.		8	100%
2	The description is somewhat readable and understandable.		0	0%
3	The description is hard to read and understand.		0	0%
	Total		8	

Statistic	Value
Min Value	1
Max Value	1
Mean	1.00
Variance	0.00
Standard Deviation	0.00
Total Responses	8

34. Q4: Please provide the rationale for your answers to Q1 to Q3. (Open question)

Text Response	
Same as for the previous one, goes into the details of how it does what it does, but do not explicitly tell what it does	
I revisited the code and confirmed the information that it provides	
The wording could be more concise (see previous response regarding UNIQUENESS)	
Says that rows are deleted from a table, but doesn't say which rows.	
Q1, The description talks about all the methods involved in the removing and the constrains to having into account. Q2, That things are described in a specific way, only with the really important information without redundancies. Q3. It express the relations and the important information that someone could need for have a understanding of what the method do.	
The description is thorough enough to get a good understanding of the database operations.	
I think constraint information about data overflow is not important.	
Statistic	Value
Total Responses	7

35. General question 1: Is our generated summary useful for understanding the database usages in the system?

#	Answer	Bar	Response	%
1	Yes. It's useful. Why?		8	100%
2	No. It's not useful. Why?		0	0%
	Total		8	

Yes. It's useful. Why?	No. It's not useful. Why?
It lists all the queries that may occur in the method. Sometimes it's easy to miss. By listing all the information together, it's easy to get a high-level picture.	-
If no comments on the code then it is useful as it can help to catch quickly what the methods are doing	-
Yes. It kind of gives an overview of how the database is managed --- for example, a pattern of chain calls	-
Saves time.	-
Useful to see which tables/attributes are read or modified by each method.	-
Yes, because the way for use of all methods are described in a clear and concise form	-
Because it generally provides a good starting point for understanding the calls to the database without having to examine source code.	-
Because it shows database objects and transactions involved in the process	-

Statistic	Value
Min Value	1
Max Value	1
Mean	1.00
Variance	0.00
Standard Deviation	0.00
Total Responses	8

36. General question 2: What software engineering tasks would you use this type of summary for? (Open question)

Text Response

Debugging, for example, some database has a faulty status. I need to know how the database is altered in a program. Program comprehension.
generating documentation

I think this may be useful for creating (unit) test cases --- for example, with the constraints information, we can create test cases with valid inputs, corner inputs, and invalid inputs ...

General understanding/maintenance tasks. Schema reverse engineering.

Impact analysis: if I'm modifying the db schema, or how a method writes to it, the summaries would be useful to see which other methods will be impacted by the change.

I could use this type of summary for documenting my project.

I'd use it to analyse systems that need to be modified but no one in the team is familiar with the software's architecture.

Mainly for evolving, maintaining and documenting systems.

Statistic	Value
Total Responses	8