

# **SWE20001: Managing Software Projects**

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## **Testing Add Sales record with respect to “User Error Protection”:**

Here I have decided to use Inspection method and usability testing methods to fulfill the “User Error Protection” by performing the following tests.

In this quality testing I have not used “performance testing” as here we are testing how well “the system prevents users from making errors”. Although benchmarking the times taken by the system to respond to certain errors (and so testing performance) is quite useful, it is only focusing on the time taken and not the way the system is preventing the users from making the error or how the user feels to the response outputted by the system. Thus I feel it is not appropriate.

Furthermore, I have also not used “unit testing” even though all the tests could be done faster with it. That is because the unit test would all be set up by the team who may not consider all possible error situations as they would only mostly think from a technical point of view (like considering the fact that “the employee may end up inputting an emoji by mistake”). Also, it would only give the response of a machine that is already expected by the team and won't include the feelings an actual user would feel from the response provided. Thus there would remain a lack of user feedback and so the team would not be able to guarantee that the users would understand that they are making errors in their inputs (or would be able to understand the way to correct them) in real, practical situations.

So, instead “inspection” method would be better as there we would be able to check the codes and ensure each and everything in the system is working as intended by the team developing it. Furthermore, by backing it up using “usability testing”, the team can also get client feedback to the system and thus further guarantee that the system works as intended in not only preventing clients from making errors and but also making them understand how to resolve the error in a short, simple and effective manner in a real, practical situation.

### Checklist for the tests to be performed:

Test Task Id	Test Task description	Test Task Appropriateness or reasoning for test	Checkbox/tickbox
1	All fields at their proper position.  (Inspection and usability testing methods)	To ensure the employee inputting the data know where to place what and hence ensure that data isn't inputted in the wrong field.  This will be done by checking both the backend and front end of the webpage	
2	Adequate visible space provided for all the sales fields from the user side.  (Inspection and usability testing methods)	To ensure employee inputting the data can see the entire data that will be inputted in the field without navigating through the box using the cursor.  This will be done by checking both the backend and front end of the webpage	
3	Adequate field size allocated to all the sales fields in the logic side.  (Inspection testing method)	To ensure the entire data being inputted gets stored and thus can be passed to the database without any missing piece of info.  This will be done by checking the methods that will carry the data throughout the system	
4	Adequate field size allocated to all the sales fields in the database's table.  (Inspection testing method)	To ensure the entire data inputted is stored and thus no information is missing.  This will be done by checking the database creation file and the database itself	
5	Provide confirmation message when the sales form is added.  (Inspection and usability testing methods)	To enable the program to respond back to the user to assure the user of successful record adding for sales. This will be done on the both the front end and backend of the webpage	
6	Provide cancel message when the sales form is cancelled.  (Inspection and usability testing methods)	To enable the program respond back to the user to assure the user of successful record cancelling.  This will be done on the both the front end and backend of the webpage.	
7	Ensure special characters	To ensure data cannot be corrupted and data	

	cannot be entered as data input to the fields with relevant error message.  (Inspection and usability testing methods)	cannot be leaked from the system via SQL injection  This will be done on the both the front end and backend of the webpage.	
8	Ensure only one sales record can be entered at a time from the webpage  (Inspection and usability testing methods)	To ensure employees enter only one data at a time and ensure doesn't get overwhelmed in any way. Also reduces chance of the employee making mistakes in their input as they will only be inserting one record at a time.  This will be done on the both the front end and backend of the webpage.	

### The screenshots of trello board as proof:



