
Advance System Design and Implementation: A Case Study (Test Plan)

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Abstract:

The systems analysts are developing the test plan for the user interface for the Holiday Travel Vehicles system. As the salespeople are entering a sales invoice into the system, they will be able to either enter an option code into a text box or select an option code from a drop-down list. A combo box was used to implement this, since it was felt that the salespeople would quickly become familiar with the most common option codes and would prefer entering them directly to speed up the entry process.

It is now time to develop the test for validating the option code field during data entry. If the customer did not request any dealer-installed options for the vehicle, the salesperson should enter "none"; the field should not be blank. The valid option codes are four-character alphabetic codes and should be matched against a list of valid codes. Prepare a test plan for the test of the option code field during data entry.

Key words: Design, Technology, System Design, Case Study, Test Plan, Design Implementation, Developing System and Development

SOLUTION

Test planning addresses all products that are created during the development of the system. This should performed

throughout the development process because it is a lot easier to design test when you are creating the different analysis and design representations than to wait and design them during construction of the system.

We have different types of tests for different stages such as Unit Testing, Integration Testing, System Testing and Acceptance Testing. In System Testing we have type of testing called Requirement Testing which has a Test Plan source such as System Design, Unit Tests, and Integration Test. This is to test whether the business process requirements are met. It is usually used for normal system testing which is used to ensure that changes made as a result of integration testing did not create new errors. Testers often pretend to be uninformed users and perform improper actions to ensure that the system is immune to invalid actions such as adding and leaving blank records and fields.

TEST PLAN

Tester:		Date Conducted:		
Objective: This is to test the option code field during data entry.				
Step Number	Test Description	Expected Result	Actual Result	Status (Pass/Fail)
1	To see whether the combo box help salesperson's performance in entering option codes to speed up the entry process.	New and old Salesperson's will find it convenient for them the use of combo box in entering option codes.		
2	To check whether the system will accept "none" option in the option code field.	The system will accept "none" option when the customer did not request any dealer installed option for their vehicle.		
3	To check whether blank option code field will accept by the system.	The system will not accept blank option code field in data entry whether the customer did or		

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		didn't request any dealer-installed option for their vehicle.		
4	To check whether four (4)-character alphabetic codes will accept by the system.	The system will accept 4 character alphabetic codes as long as this codes match valid codes on the list.		
5	To check whether 4 character alphanumeric code will accept by the system.	Alphanumeric will not accept by the system since option codes must only be Alphabetic codes.		