## Practical 1: Design test cases for purchase order management based on system specifications.

## \* Test cases :

ID	Test Case	Steps	Expeded	Actual 0	utcome
		Enter correct ID & Password.	User must be logged in	User is logged in.	Pass.
02	Test if user is able to shop	1) Click Home. 2) Click on left top to get option	Shop by cotegory scroll bar		Pass.
	Test if user is able to search item.	1) Click on Seaso 2) Type item you want to Search	A list of	A list of	Pass.
	Test if user can filter the Search list.	Click on "All" an	d Only that particular category ite	Only that pasticular category's	Pass.
	Test if user is able to view details about the item.	Click on item after search	n All stem	All îtem details ase	Pass.

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	inv	ento	ry.	page. 2) Click of	n d	isplaye	ed.	displayer	d.	
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## \* Practical Related questions:

- 1. What are the objectives of software Testing?
- > The objectives of Software Testing:
- 1. Finding defects which may get created by the programmer while developing the software.
- 2. Gaining confidence in customer and providing information about the level of quality.
- 3. To prevent defects.
- 4. To make sure that the end result meets the business and user requirements
- 5. To ensure that it satisfies the BRS
  that is Business Requirement
  specification and SRS that is System
  Requirement Specifications.
- 6. To gain the confidence of the customer by providing them a quality product.

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- 2. How can we design the test cases from requirements?
- -> Requirement based testing:

Requirement based testing is a testing approach in which test cases, conditions and data are desired from requirements. It includes functional test and non-functional attributes such as performance reliablity or usability.

- · Stages in requirement based testing:
- 2. Defining test completion criteria Testing is completed only when all the functional and non-functional testing is completed.
- 2. Design Test Cases 
  A test case has five parameters, namely pse-condition, ID, inputs, expected and actual outcome.
- 3. Execute Tests 
  Execute the test cases against the

  system and document the sesults.

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4. Verify the test sesults:
verify if the expected and actual

sesult match each other.

5. Verity test coverage 
Verity if the test covers both the

functional and non-functional aspects

of the sequirement.

6. Track and manage defects Any defects detected during the
testing process goes through the
defect life cycle and are tracked
to resolution. Defects statistics are
maintained which will give us the
overall status of the project.

3. Compase static and	Dynamic testing.
7 Difference between s	tatic & Dynamic Testing -
Static Testing	Dynamic Testing
1. Testing is done without execution of program.	1. Testing is done by executing the program.
2. Static Testing does Verification process.	2. Dynamic Testing does Validation process.
3. Static Testing is about prevention of defects.	3. Dynamic Testing is about finding and fixing defeats.
4. Static Testing gives an assessment of code and document.	4. Dynamic Testing gives bugs in the software system.
5. Static Testing can be performed before compilation.	5. Dynamic Testing is  performed after  compilation.
6. Cost of finding and fixing defects 7s low.	6. Cost of finding and fixing defects is high.

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	* Exercise :-
	1. Identify the situation when to start and stop software testing.
	-> when to Start Testing -
-	An early start of testing reduces the cost and time to rework and produce error-
	free software that is delivered to dient.  Software Development Life Cycle Testing  can be started from requirement gathering
	phase and continued till deployment.
	It also depends on the development model that is being used.
	• When to Stop Testing -
	It is difficult to determine when to stop
	testing, as testing is a never ending process and no one can claim that a
	software is loofy tested.
	307100000 13 10019 1031000
	1. Testing Deadlines. 2. Completion to test case execution. 3. Management decision.
	2. Completion to test case execution.
	3. Management decision.
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	3. In white Box Testing identify the parameters to verify.	
	1. Internal Security holes.	
	2. Broken or Poorly structured paths in the coding process.  3. The flow of specific inputs through the code.	1
	4. Expected outcome.  5. The functionality of conditional loops.	
	6. Testing of each statement, object and function on an individual basis.	
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