

# **SNS COLLEGE OF TECHNOLOGY**

Kurumbapalayam (Po), Coimbatore – 641 035

**An Autonomous Institution**

Accredited by NAAC – UGC with ‘A++’ Grade

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## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**COURSE NAME: 23ITO201- Software Testing  
(OPEN ELECTIVE )**

**III YEAR / VI SEMESTER**

**Unit 2 - TEST CASE DESIGN STRATEGIES**

**Topic : COMPATIBILITY TESTING**

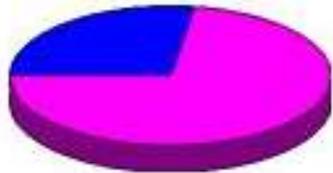


# Parameters that affect compatibility

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 MySQLdb version: 1.2.3 final	 API is not Installed	 Psycopg 2.3.2
 SQLite version: 2.6	 Pymssql 1.0.2	



Drive H:



# Compatibility Matrix

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- Columns - various parameters the combinations of which have to be tested.
- Row represents a unique combination of a specific set of values of the parameters.

Server	Application server	Web server	Client	Browser	MS Office	Mail server
Windows 2000 Advanced Server with SP4 Microsoft SQL Server 2000 with SP3a	Windows 2000 Advanced Server with SP4 and .Net framework 1.1	IIS 5.0	Win2K Professional and Win 2K Terminal Server	IE 6.0 and IE 5.5 SP2	Office 2K and Office XP	Exchange 5.5 and 2K
Windows 2000 Advanced Server with SP4 Microsoft SQL Server 2000 with SP3a	Windows 2000 Advanced Server with SP4 and .Net framework 1.1	IIS 5.0	Win2K Professional and Win 2K Terminal Server	Netscape 7.0,7.1, Safari and Mozilla	Office 2K and Office XP	Exchange 5.5 and 2K
Windows 2003 Enterprise Server Microsoft SQL Server 2000 with SP3a	Windows 2003 Enterprise Server and .Net framework 1.1	IIS 6.0	WinXP Home and Win XP Professional	IE 6.0 and IE 5.5 SP2	Office XP and Office 2003	Exchange 2K
Windows 2003 Standard Server Microsoft SQL Server 2000 with SP3a	Windows 2003 Standard Server and .Net framework 1.1	IIS 6.0	WinXP Professional and Citrix	IE 6.0,IE 5.5 SP2 and Mozilla	Office XP and Office 2003	Exchange 2003
Windows 2003 Enterprise Server Microsoft SQL Server 2000 with SP3a	Windows 2003 Enterprise Server and .Net framework 1.1	IIS 6.0	Win XP Professional and Win2003 Terminal	IE 6.0,IE 5.5 SP2 and Safari	Office XP and Office 2003	Exchange 2K



# Common Techniques

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- Horizontal combination:
  - ▣ test cases are grouped together as a row.
- Intelligent sampling:
  - ▣ permutations and combinations.
  - ▣ intelligent samples - based on information collected on the set of dependencies of the product with the parameters.



# Types

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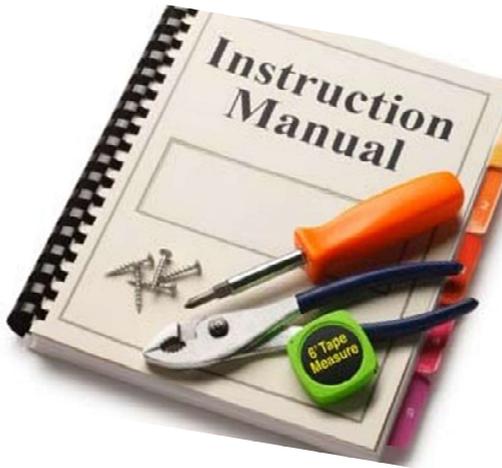
- Backward compatibility
  - ▣ current version of the product continues to work with the older versions of the same product.
- Forward compatibility
  - ▣ The product will work with future versions of the software also.
- Compatibility testing begins after validating the product in the basic environment.

# USER DOCUMENTATION TESTING

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# What is it?

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extrusion (2X).  
extrusion (2X).  
rack support flange (2X).  
plastic extrusion channels (2X).

## REMENTS

h standard safety and risk  
working in raised floor environments  
i.

## 1 of Cables

ss from the rack hole selection,  
ite slack in the cables. If the cables  
he grommet may be pulled apart,  
se an increase in the flow of air



Top view  
after brushes  
are installed

# INSTALLATION GUIDES



End cap hooks  
connect into  
extrusions



## Online Help

for faster correspondence & recovery



# Objectives

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- To check if what is stated in the document is **available** in the product.
- To check if what is there in the product is **explained correctly** in the document.



# What is tested?

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- ❑ Product upgraded → Document updated
- ❑ Screen by screen verification.
- ❑ language aspects like spell check and grammar.

# Most Important

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# Activity

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## Assign a Sample Application (5 Minutes)

Example Applications (Choose one):

- Web Application (College Website)
- Mobile App (E-commerce App)
- Learning Management System (LMS)
- Online Banking System

## Identify Compatibility Parameters (10 Minutes)

Each group must list parameters affecting compatibility:

Parameter	Examples
Operating System	Windows, Linux, Android
Browser	Chrome, Edge, Firefox
Device	Mobile, Laptop, Tablet
Network	WiFi, 4G, 5G
Screen Resolution	720p, 1080p



# Benefits

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- High lighting problems over looked during reviews
- overall support cost is minimized.
  - ▣ minimizing possible defects reported by customers
  - ▣ reduces the time taken for each support call
- less difficult support calls
  - ▣ better customer satisfaction and better morale of support staff.
- New programmers and testers use the documentation to learn the external functionality of the product.
- reduction of overall training costs for user organizations.
  - ▣ Customers need less training and can proceed more quickly



# MCQ

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## Compatibility Testing – MCQ

**1. Compatibility testing mainly checks whether a software works with different:**

- A) Algorithms
- B) Environments
- C) Programming languages
- D) Flowcharts

**Answer:** B) Environments

**2. Compatibility testing is a type of:**

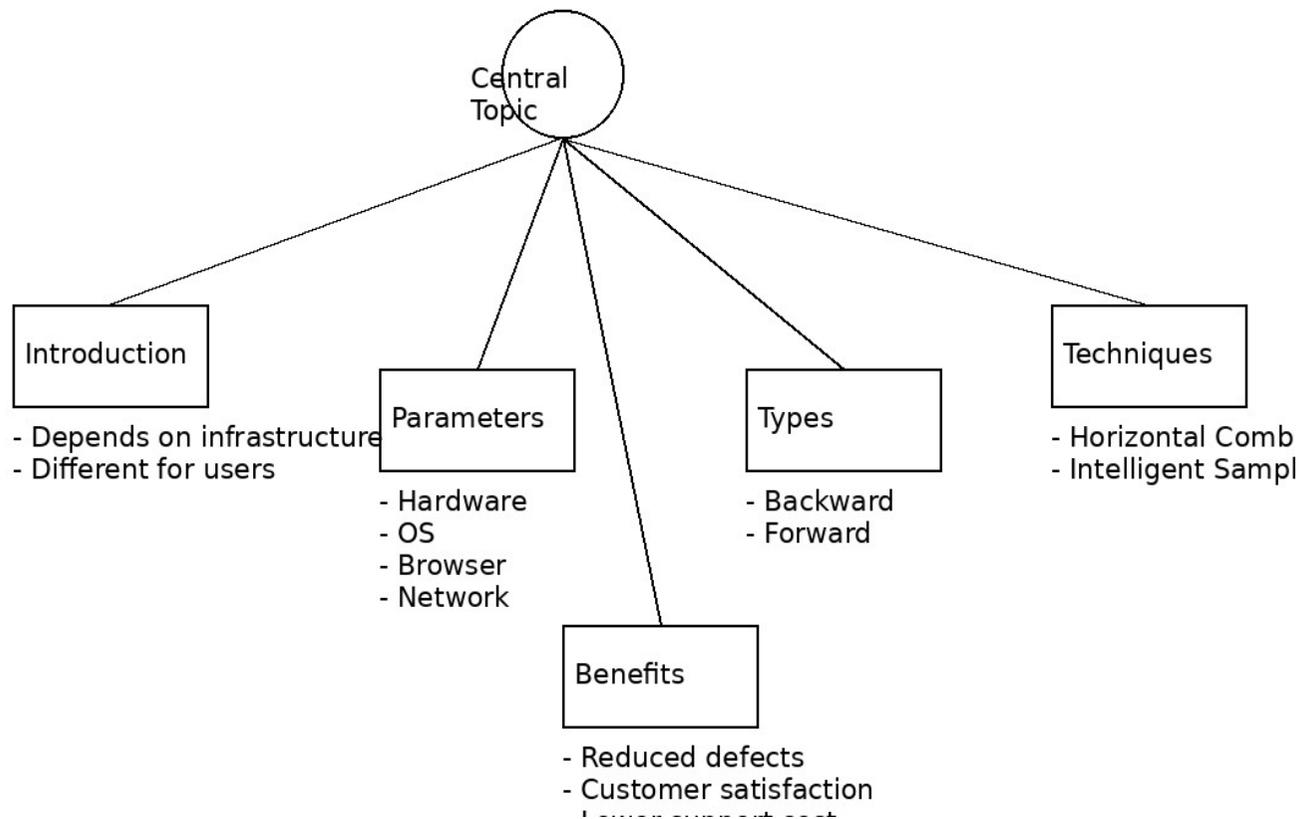
- A) Functional Testing
- B) Non-Functional Testing
- C) Unit Testing
- D) Integration Testing

**Answer:** B) Non-Functional Testing

# Mind Map

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## COMPATIBILITY TESTING





# Thank You