TRICENTIS
Tosca

Testing Introduction

⇨ What is Testing in a Software Industry
⇨ Importance of Software Testing
⇨ Software Development process

Software Development Life cycle

⇨ What is SDLC
⇨ What is Waterfall model
⇨ Introduction to scrum / Agile

Different Types of testing

⇨ Unit Testing
⇨ Functional Testing
⇨ End to End Testing
⇨ Regression Testing
⇨ Smoke/Sanity Testing
⇨ Load Testing
⇨ Performance Testing
⇨ Integration Testing
⇨ User Acceptance Testing

Requirements and Test cases

⇨ What is a requirement
⇨ How to convert the requirement into test cases
⇨ Creating User Data

Remaining Topics

⇨ What is the Defect
⇨ What is Project
⇨ What is Product

Basics of Automation Testing

⇨ What is manual and Automation Testing
⇨ Why automation testing is required and uses of it
⇨ How to determine automation scope.
⇨ Different tools that are available for test automation

Introduction to Tricentis Tosca tool

⇨ Installation of Tosca
⇨ Current market / Posittions for Tosca
⇨ How Tosca is leading the market.
⇨ Creating a Support side credentials
⇨ Activation of the Trail License to Tosca
⇨ Creation of the Workspace Creation
⇨ Overview on the Options and Icon in the Tosca UI

Modules Sectio

⇨ What is a module
⇨ How to create a module by using scan option.
⇨ Scanning objects
   a. How to Scan objects using tosca X scan
   b. What is Tosca X scan
   c. Different engines available in
      tosca and uses of it.
   d. Scanning of the different types of
      applications (web based, windows based, etc.,)

Object Property Handling

⇨ Different types of DOM elements
⇨ Selecting the property that
   are unique for the Object

Identification methods

⇨ Html Self Object properties
⇨ Anchor
⇨ Image
⇨ Index

Tosca Standard modules

⇨ What are standard modules
⇨ Importing of standard modules into the workspace
⇨ Tbox Automation tools
   a. Buffers, Basic window,
   Folder operation, Evaluation Tools, etc

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   Folder operation, Evaluation Tools, etc
⇨ Tbox X Engines
   a. Html, File, Mail, Json, XML, Mobile,
   SAP, PDF, Vision AI, etc.,
⇨ What are Aid Pack modules and usages

Properties of the modules
Different types of Param

⇨ What are different types of
   Param available for modules
⇨ What are Transition Param, Technical ID Param,
   Configuration Param, etc.,
⇨ How to use these params and why
⇨ What is Cardinality and how to uses of it
⇨ Using of the Regex function
   at module properties level

Creating Custom modules and
creating image based controls

Test Case Section

vCreation of Test Cases with help of Scanned modules

⇨ Creation of the Test Cases
⇨ Converting the scanned modules to test steps
⇨ Creating the folder structure within test case.
⇨ Using of WorkState Option for test cases
⇨ How to use the Value column

Action Mode

⇨ What is action mode and how to use it
⇨ Explaining different types of values like, Input, Insert, Verify, Buffer etc.,
⇨ What is the constraint and uses of it
⇨ Wait on usages and how to use it for synchronization.

Creating & Uses of Test Configuration Parameter

⇨ Different types of inbuilt TCP available
⇨ Changing Tosca Commander settings using TCP
⇨ Creating Custom TCP and using them in Test cases

vCreation of Library

⇨ What is Library and how to create it
⇨ Using Libraries in the Test cases
⇨ Passing Data to Library using Business Parameters

Synchronization methods

⇨ Different types of Synchronization available in Tosca
⇨ Tbox Wait On
⇨ Synchronization settings in tosca commander

Creation of Buffers and implementation Functions (Calc, Math, Random Number Generation, Regex, Sum, etc.,)

Excel Verification

⇨ Connecting to Excel From Tosca
⇨ Reading Data from Excel and storing it in the Tosca buffers
⇨ Write Data to the Excel

Loops and Condition in Tosca

⇨ Different Types of loops and conditions available in Tosca
⇨ How to use if , nested if else Conditions
⇨ Using of the Do and while statements in tosca

Repetitions

⇨ What is the repetition
⇨ Creating of the repetitions in the real time environment
⇨ How to handle dynamic repetitions

Exception Handling

Execution Section

⇨ What is an Execution List
⇨ Creation of Execution List
⇨ Different ways of Test cases to the Execution list
⇨ Creating Test Configuration Properties at Execution list level.
⇨ Execution of the Execution lists

Report Generation

⇨ What is Reporting Section in Tosca
⇨ How to Generate the Reports for the executions
⇨ What is Design option in Reporting section
⇨ Different types of reports available in tosca
⇨ Setting related to reports

Exception Handling at Execution Level

⇨ What is Recovery Scenario
⇨ how to Create a recovery scenario
⇨ Different re try level's for Recovery Scenario
⇨ Settings Related to Recover scenarios
⇨ What is Cleanup Scenario's and uses of it

Test Event and Test Mandates

⇨ What is test events and test mandates
⇨ How to configure or create test events
⇨ What is configuration tab in Test events.

API Testing

Introduction to API

⇨ What is API Testing
⇨ Different types of API's Available
⇨ Recording of API using Dev tools in Chrome

API Testing using the Tosca

⇨ Starting API Scan window
⇨ Adding the API details in the new message window
⇨ Discuss the different types of Authorization
⇨ Executing these endpoints from the API Scan window
⇨ How to open API Scan window without opening tosca commander

Converting the API to Tosca modules

⇨ How to Export the API/Endpoints to Tosca Commander
⇨ Adding the module Attributes to the Created modules from exported API's

Creating Scripts for the Converted modules

⇨ Creating test cases from these modules
⇨ Getting the Total number of records
⇨ Using Repetitions to get multiple values from API
⇨ Using Constraints

Test Case Design

What is TCD and Usages of it

⇨ What is TCD and Importance of it
⇨ What is the Test sheet and Creating one
⇨ What are Attributes and Instances, Creating them
⇨ Creating test data within test sheet
⇨ Creating Combinations for the Test sheet

Classes

⇨ What is classes
⇨ Example on how to create
   the classed and using it in Test sheets

Test Data Management

TDS Set UP

⇨ Creating Tosca Server locally
⇨ Configure TDS in the server

What is Test Data Management

⇨ Overview TDS UI
⇨ What are Repository, Item and records in TDS
⇨ Different types of repository available in TDM
⇨ Creating a Repository,
   Item and importing Records into TDM

TDS

⇨ What is TDS and difference between TDM and TDS
⇨ Creating Item and records using TDS from tosca
⇨ Update or fetch records from TDS
⇨ Delete or create a new item in a repository
⇨ Importing the Data into TDS from excel or feed file

Tosca Other Integrations

Tosca CI/CD

⇨ What is Tosca CI
⇨ CI tools that can be integrated with Tosca CI

Introduction to qTest

⇨ What is qtest
⇨ How to create test cases in qtest
⇨ How to link Tosca and qtest test cases
⇨ How to schedule test cases from qtest

Introduction to DEX

⇨ What is Tosca DEX
⇨ How to implement Tosca DEX
⇨ Using of test events in DEX

Other

Tosca Best Practices

⇨ Creating Proper Folder
⇨ Standards to follow while
   creating or scanning modules
⇨ Standards for Test case creation

Guidance on the Certifications

⇨ What is Tricentis Academy
⇨ How to register for the Certifications
⇨ Basic certifications for Tosca

Creation of the Multiuser workspace

⇨ How to create a
   Data base for the Multi User Workspace
⇨ How to create a work space in the created DB
⇨ How to manage multi user workspace
⇨ What are checkout,
   checkout tree, checkin all, Update all

Introduction to User management Section

⇨ What is user management section
⇨ How to create new users
⇨ User group creation for different access level
⇨ Restricting access to different folders for different users

Creating Project level Setting
How to take Screenshots

⇨ Using Docku snapper to take screenshots
⇨ Tbox standard modules to take screenshots

Settings to take screenshot when a test step is failed

Tosca Settings

⇨ Recovery scenario's
⇨ On Verification Failure, On Dialogue failure
⇨ Tosca Date format
⇨ Tosca Number format
⇨ Creating Random Numbers or text
⇨ Trim Functions
⇨ Dynamic Buffers

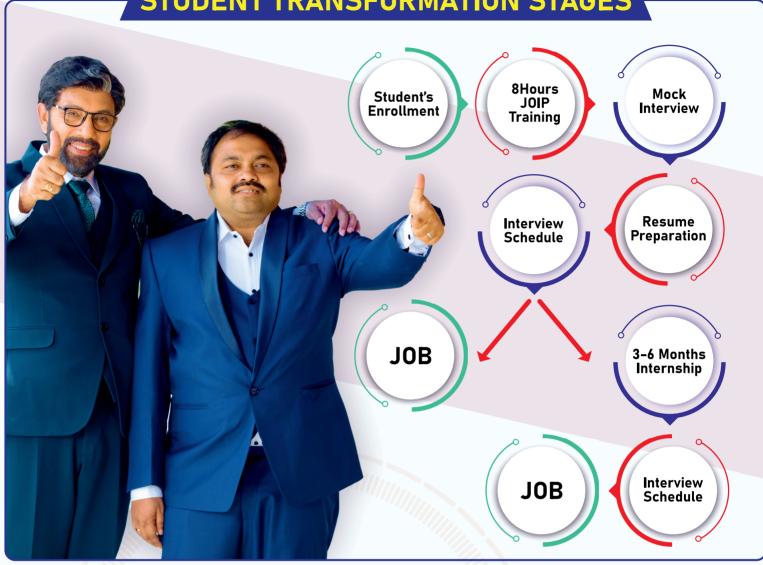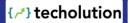**Miscellaneous / any**
topics requested by the audience