Automation Testing

Working with Reports

A Day in the Life of an Automation Test Engineer

In the previous lesson, John had learned and understood the various reports and how to create reports.

Now, he has to know how to interact with an XML document, export the test report, and create a report on tomcat.

To accomplish everything listed above, he will learn about the reporting tools, exporting reports to excel, publishing reports to tomcat, and XML parsing.

Learning Objectives

By the end of this lesson, you will be able to:

◉ Describe reporting tools

◉ Learn how to export reports in excel

◉ Discuss how to publish a report on tomcat

◉ Analyze the XML parser

Reporting Tools

Test Reporting Tools

An essential part of the testing process is a test reporting tool, which summarizes the key steps taken during the testing lifecycle for any release and the overall testing results.

Criteria for Choosing the Right Test Reporting Tool

The criteria for selecting the best test reporting tool are listed below:
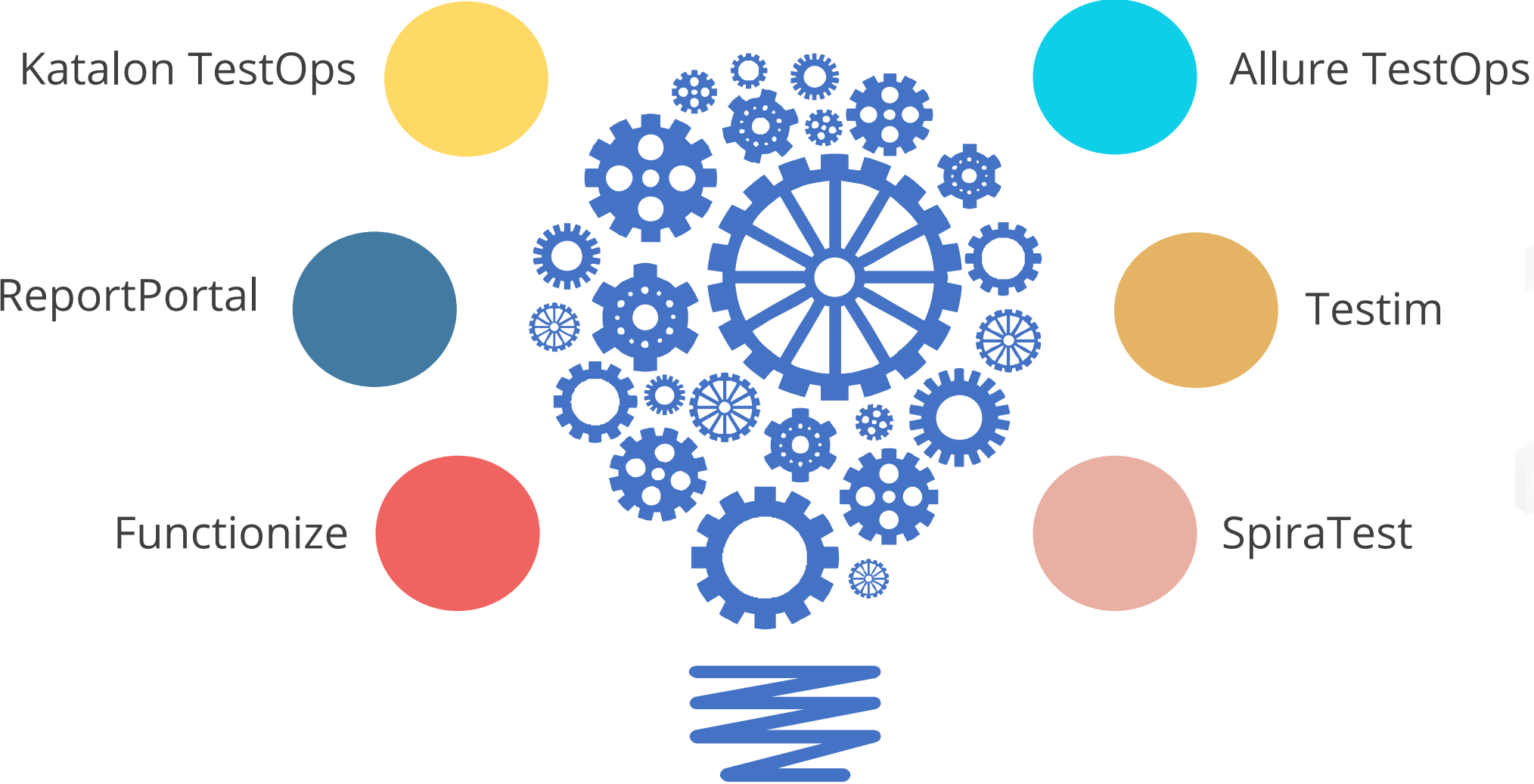
1 User interface (UI)

3 Usability

2 Functionality and features

4 Value

Top Test Reporting Tools

Katalon TestOps

Allure TestOps

ReportPortal

Testim

Functionize

SpiraTest

Benefits of Test Reporting Tools

The team can automate tests more quickly and effectively by selecting the appropriate test reporting technology.

Keep up with the frameworks and tools that provide the best test reporting functionality.

A reliable solution ought to be compatible with a various of mobile platforms, connectors, and programming languages.

Massive amounts of data storage for testing data should be possible with TestCloud.

Exporting Reports in Excel

Exporting Reports in Excel

The access copies the selected data and saves it in a file, that excel can open when users choose to export data to Excel.

Export a Report to Microsoft Excel

The steps described below demonstrate how to export report results to Excel:

Navigate to the report with the data you would like to export so that it is displayed on the Reports page.

Click on the Excel button in the header at the top of the report to download the report as an Excel spreadsheet. If you don't see the Excel button, then the report is not available for export.

Follow the directions in your browser or spreadsheet program to open or save the file.
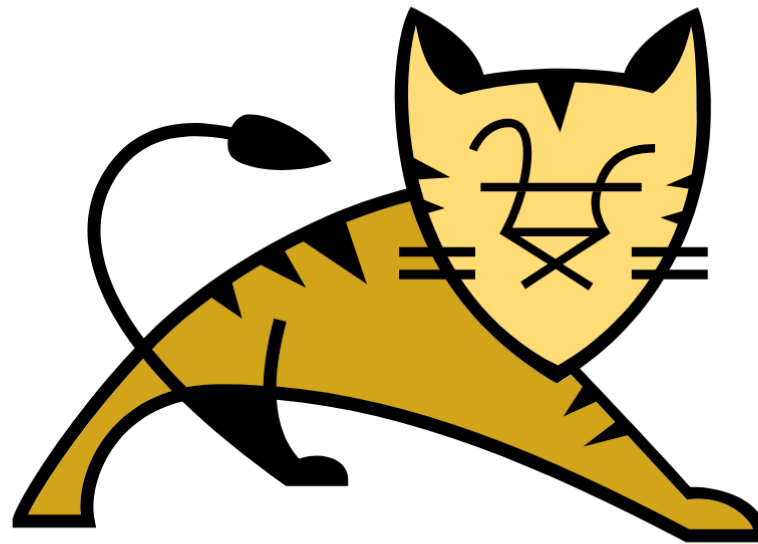
Publishing Report on Tomcat

Report on Tomcat

The Apache Tomcat community is made up of people who use Apache Tomcat, assist with discussion list responses, provide documentation and bug fixes, and work to develop and maintain Apache Tomcat's code.
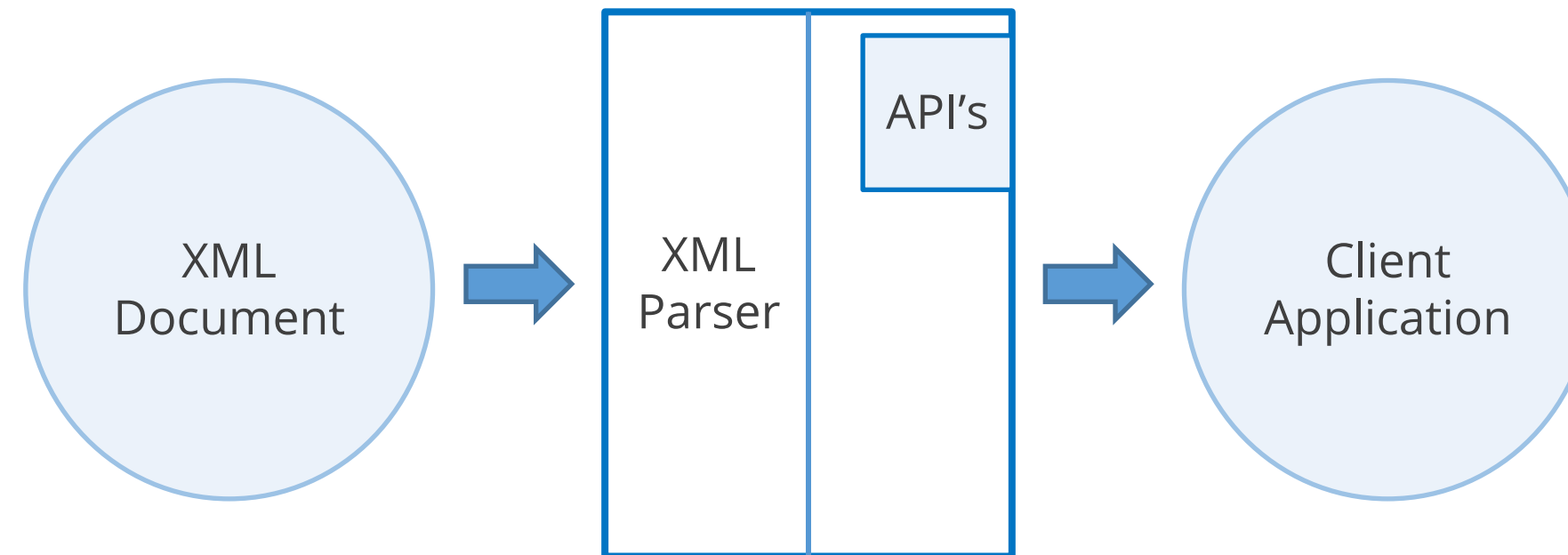
XML Parser

XML Parser

A software library or package, known as an XML parser, offers interfaces for client applications to interact with an XML document.

XML
Document

→

XML
Parser

API's

→

Client
Application

The XML Parser is made to read XML and make it possible for the software to use XML.

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Types of XML Parsers

The main types of XML parsers are:
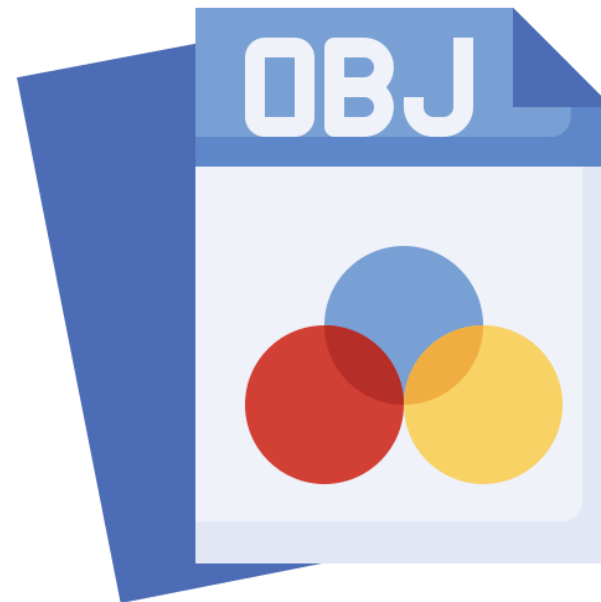
01 DOM (Document Object Model)

02 SAX (Simple API for XML)

DOM (Document Object Model)

A DOM document is an object that includes every piece of data found in an XML document. It has a tree-like structure.
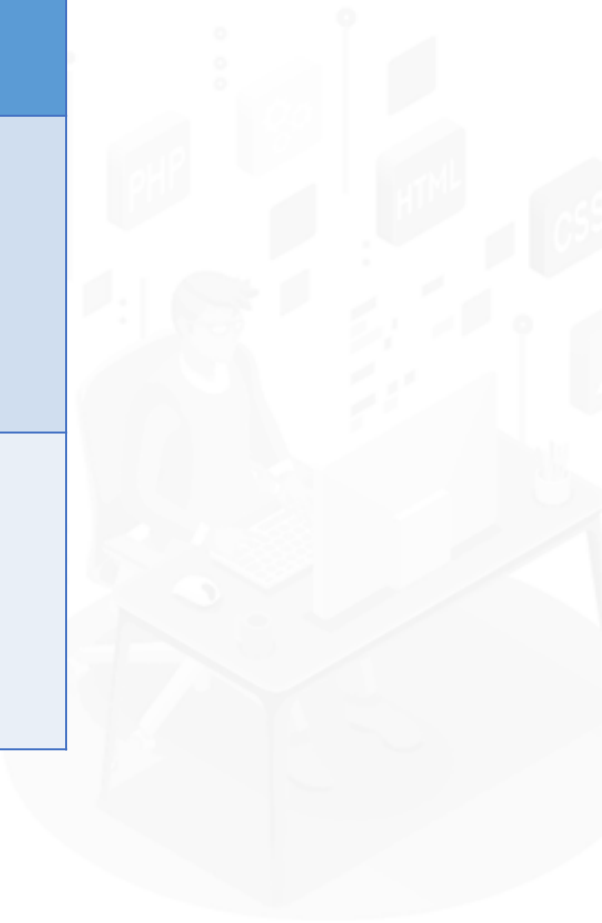

A DOM API is implemented by the DOM parser. Utilizing this API couldn't be easier.
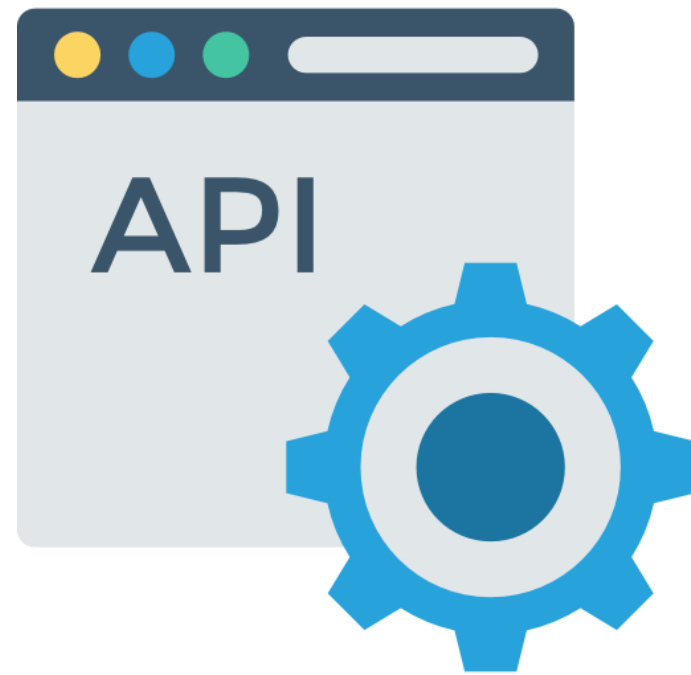
Advantages and Disadvantages

Advantages	Disadvantages
It supports both read and write operations, and the API is very simple to use.	It is memory inefficient (consumes more memory because the whole XML document needs to be loaded into memory).
It is preferred when random access to widely separated parts of a document is required.	It is comparatively slower than other parsers.

SAX (Simple API for XML)

A SAX Parser implements the SAX API. Due to its event-based structure, this API is less user-friendly.

Advantages and Disadvantages

Advantages	Disadvantages
It is simple and memory efficient.	It is event-based, so its API is less intuitive.
It is very fast and works for huge documents.	Clients never know the full information because the data is broken into pieces.

Key Takeaways

- The XML Parser is designed to read XML and enable its use by software.

- The event-based SAX parser functions similarly to a Java event handler.

- Katalon TestOps is the best option for test reporting in light of many requirements.

- The DOM parser loads the entire XML document into memory and generates a tree representation of it.

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