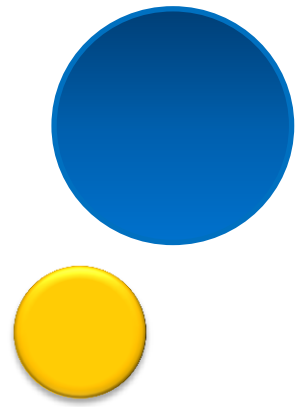


AUTOMATION TESTING (SELENIUM)



**MISSION TO TRAIN THE
STUDENT WELL
ESTABLISHED SOCIETY
WITH A POOL OF HUMAN
TALENTS TO FULLFILL THE
REQUIREMENTS
COMPANY/NATION WITH
SYSTEMATICS APPROACH!**



ABOUT

AUTOMATION TESTING (SELENIUM) AGASTYAS SOLUTIONS

AGASTYAS SOLUTIONS is provides a well-known professional's **AUTOMATION TESTING (SELENIUM)** training.

AUTOMATION TESTING (SELENIUM) Course offered at AGASTYAS SOLUTIONS are devised with best practices recommended by Google and other leading search engines. Our strategies are developed with many years of experience. We are passionate about **AUTOMATION TESTING (SELENIUM)** and that's why our strategies WORK! We are sure our sound knowledge and effective **AUTOMATION TESTING (SELENIUM)** principles will turn you into an **AUTOMATION TESTING (SELENIUM)** Professional.



OUR MOTO!

TO TRAIN AND MAKE
EVERYSTUDENT AN
OUTSTANDING
AUTOMATION TESTING
(SELENIUM)
PROFESSIONALS.

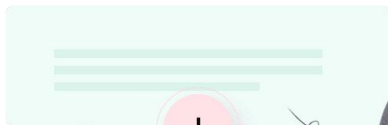
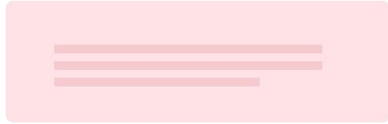
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OUR STUDENTS WORKS AT

Courses



Feedback



5 Star

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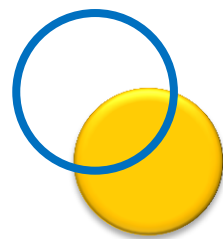
ADVANCED AND EXPERT AUTOMATION TESTING (SELENIUM)

- ❖ SUPPORT & GUIDANCE FOR GOOGLE & OTHER INDUSTRY CERTIFICATIONS.
- ❖ CASE STUDIES & REAL TIME PROJECTS/
TRAINING

DURATIONS

45 - 75 Hours. ⌚



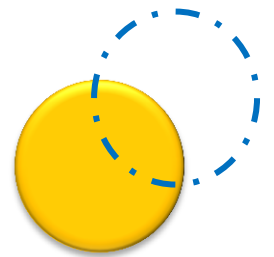


JAVA ESSENTIALS FOR SELENIUM

JAVA PROGRAMMING BASICS

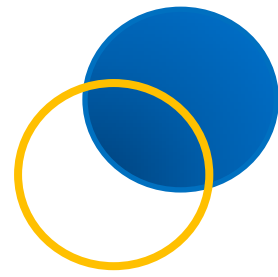
- # INSTALLING JAVA
- # INSTALLING ECLIPSE
- # FIRST ECLIPSE PROJECT
- # FIRST JAVA PROGRAM
- # CONCEPT OF CLASS FILE
- # DATATYPES IN JAVA
- # STRING CLASS AND FUNCTIONS
- # CONDITIONAL STATEMENTS
- # LOOPS
- # ARRAYS
- # SINGLE DIMENSIONAL ARRAYS
- # TWO DIMENSIONAL ARRAYS
- # PRACTICAL USAGE OF ARRAYS IN SELENIUM
- # OPERATORS
- # WHAT ARE FUNCTIONS?





- #FUNCTION INPUT PARAMETERS
- #FUNCTION RETURN TYPES
- #OBJECT-ORIENTED PROGRAMMING IN JAVA
- #LOCAL VARIABLES
- #GLOBAL VARIABLES
- #STATIC AND NON-STATIC VARIABLES
- #STATIC AND NON-STATIC FUNCTIONS
- #CREATING OBJECTS IN JAVA
- #MEANING OF STATIC
- #WHY IS MAIN METHOD STATIC?
- #OBJECT AND OBJECT REFERENCES
- #CALL BY REFERENCE AND VALUE
- #OVERLOADING AND OVERRIDING FUNCTIONS
- #ACCESS MODIFIERS –
PUBLIC/PRIVATE/DEFAULT/PROTECTED
- #CONSTRUCTORS
- #INTERFACE
- #USAGE OF OBJECTS IN SELENIUM
- #INHERITANCE

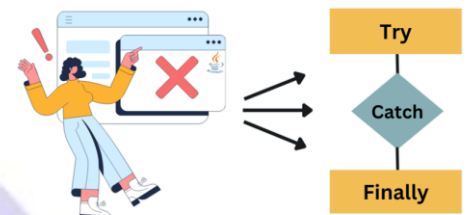




- ✚ USAGE OF INHERITANCE IN SELENIUM
- ✚ CREATING PACKAGES
- ✚ ACCESSING CLASSES ACROSS PACKAGES

EXCEPTION HANDLING

- ✚ EXCEPTION HANDLING WITH TRY CATCH BLOCK
- ✚ IMPORTANCE OF EXCEPTION HANDLING

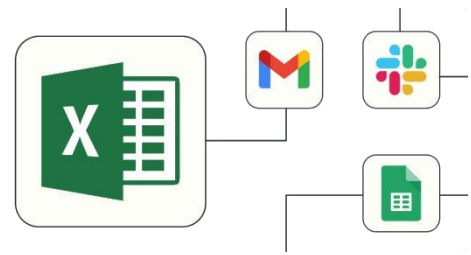


Java Exception Handling

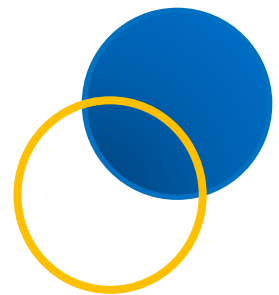
- ✚ EXCEPTION AND ERROR
- ✚ THROWABLE CLASS
- ✚ FINAL AND FINALLY
- ✚ THROW AND THROWS
- ✚ DIFFERENT TYPES OF EXCEPTIONS
- ✚ NEED OF EXCEPTION HANDLING IN SELENIUM FRAMEWORK



AUTOMATING EXCEL FILE OPERATIONS



- ✚ CREATING/OPENING XLS FILES
- ✚ READING/WRITING MICROSOFT XLS FILES
- ✚ COUNTING ROWS AND COLUMNS
- ✚ FILLING BG/FONT COLOURS
- ✚ PRACTICAL EXAMPLES



AUTOMATING TEXT FILE OPERATIONS

- ✚ CREATING/OPENING TEXT FILES
- ✚ READING/WRITING TEXT FILES
- ✚ PRACTICAL EXAMPLES



AUTOMATING DATABASE OPERATIONS

- ✚ CONNECTING TO DATABASES

+MYSQL

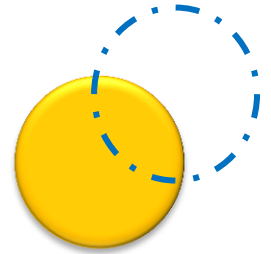
+ORACLE

+SQL SERVER

+SENDING SQL QUERIES TO DATABASE

+PROCESS THE RESULTS

+PRACTICAL EXAMPLES



SELENIUM



INTRODUCTION

+WHAT IS SELENIUM?

+WHO DEVELOPED SELENIUM?

+SELENIUM COMPONENTS



SELENIUM IDE

+INSTALLING SELENIUM IDE

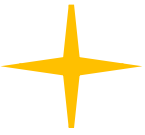
+CREATING YOUR FIRST SELENIUM IDE SCRIPT

+HOW TO USE LOCATORS IN

SELENIUM IDE



- # HOW TO ENHANCE A SCRIPT USING SELENIM IDE
- # CREATING AND RUNNING TESTS
- # CREATING AND RUNNING TEST SUITE



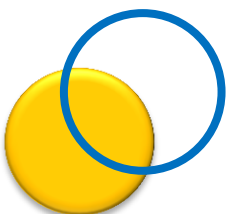
WEBDRIVER INTRODUCTION

- # INTRODUCTION TO WEBDRIVER & COMPARISON WITH SELENIUM RC
- # INSTALLING SELENIUM WEBDRIVER
- # ARCHITECTURE OF SELENIUM WEBDRIVER
- # CREATING YOUR FIRST SCRIPT IN WEBDRIVER

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LAUNCHING AUT AND INSPECTING PROPERTIES OF ELEMENTS

- # LAUNCHING AUT IN FIREFOX
- # LAUNCHING AUT IN INTERNETEXPLORER
- # LAUNCHING AUT IN CHROME
- # LAUNCHING AUT IN SAFARI



INSPECTING PROPERTIES OF ELEMENTS ON
DIFFERENT BROWSERS

INSTALLING FIREBUG AND FIREPATH

CREATING FIREFOX PROFILE



AUTOMATING OPERATIONS ON VARIOUS ELEMENTS

BROWSER

TEXTBOX

LISTBOX

LINKS

CHECK BOX

RADIO BUTTON

HTML TABLES

CALENDARS



AUTOMATING KEYBOARD AND MOUSE EVENTS



- + ACTION CLASS
- + KEYBOARD EVENTS
- + DRAG & DROP ACTIONS
- + MOUSE HOVER ACTION
- + RIGHTCLICK, DOUBLE CLICK & TOOL TIP



HANDLING MULTIPLE WINDOWS

- + GETWINDOWHANDLE()
- + GETWINDOWHANDLES()
- + SWITCHING BETWEEN WINDOWS
- + HANDLING ELEMENTS PRESENT IN DIFFERENT
WINDOWS



HANDLING ALERTS

- + ACCEPT()
- + DISMISS()

✚ GETTEXT()

✚ SENDKEYS()



HANDLING FRAMES

✚ WHAT IS IFRAME?

✚ LOCATING FRAMES

✚ SWITCHING BETWEEN FRAMES

✚ HANDLING FRAMES



HANDLING AJAX COMPONENTS

✚ HANDLING AJAX COMPONENTS

CREATING CUSTOMIZE XPATH/CSS SELECTORS

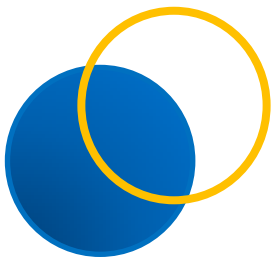
✚ WHAT IS XPATH

✚ WHEN TO USE XPATH

✚ ABSOLUTE XPATH/RELATIVE XPATH

✚ SPECIFYING CONDITIONS WITH

XPATH



#CSS SELECTORS

#CUSTOMIZING CSS SELECTOR



SYNCHRONIZATION

#IMPLICITWAIT

#WEBDRIVERWAIT

#FLUENTWAIT

#PAGELOADTIMEOUT



WHAT IS TESTNG?

#ADVANTAGES OF TESTNG OVER JUNIT

#WHY DO WE NEED TESTNG IN SELENIUM?

#INSTALLING TESTNG IN ECLIPSE

#CREATING A NEW TESTNG TEST FILE

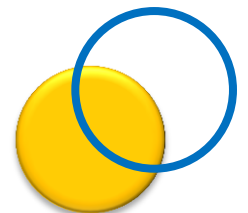
#TEST ANNOTATION

#RUNNING THE TEST

#CHECKING REPORTS CREATED BY TESTNG

#GENERATING HTML REPORTS

#ANNOTATIONS USED IN TESTNG



✚ VALIDATING TESTS WITH ASSERTIONS

✚ CREATING MULTIPLE TESTS

✚ PRIORITIZING TESTS

✚ PARAMETERIZING TESTS WITH
DATAPROVIDER

✚ TESTNG DATAPROVIDER WITH EXCEL

✚ CREATING AND RUNNING TEST SUITES WITH
TESTNG.XML

✚ PARALLEL TEST EXECUTION WITH TESTNG

✚ CROSS BROWSER TESTING USING TESTNG

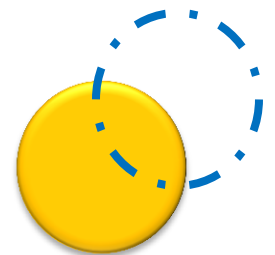
AUTOMATION TEST FRAMEWORKS

✚ MODULAR DRIVEN FRAMEWORK

✚ KEYWORD DRIVEN FRAMEWORK

✚ DATA DRIVEN FRAMEWORK

✚ HYBRID FRAMEWORK



PAGE OBJECT MODEL (POM) & PAGE FACTORY IN SELENIUM

✚ WHAT IS POM

✚ WHY POM?

✚ ADVANTAGES OF POM

✚ CREATING POM TESTS

✚ WHAT IS PAGE FACTORY?

✚ CREATING TESTS WITH PAGE FACTORY



DATABASE TESTING USING SELENIUM

✚ JDBC (JAVA DATABASE CONNECTIVITY)

✚ DRIVER MANAGER

✚ DRIVER

✚ CONNECTION

✚ STATEMENT

✚ RESULTSET

✚ SQLEXCEPTION



- ✚CONNECTING TO DATABASES
- ✚SENDING SQL QUERIES TO DATABASE
- ✚PROCESSING RESULTS
- ✚REAL-TIME EXAMPLES OF DATABASE TESTING WITH SELENIUM

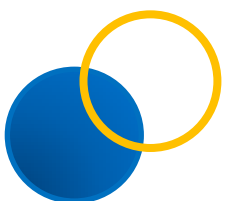
AUTOIT

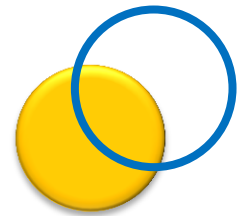
- ✚INSTALLING AUTOIT
- ✚COMPONENTS OF AUTOIT
- ✚USING FINDERTOOL
- ✚AUTOIT COMMANDS
- ✚CREATING SCRIPTS IN AUTOIT
- ✚CREATING EXECUTABLE FILES
- ✚RUNNING AUTOIT SCRIPTS FROM SELENIUM



SELENIUM GRID

- ✚WHAT IS SELENIUM GRID?
- ✚WHEN TO USE SELENIUM GRID?





- # WHAT IS A HUB AND NODE?
- # HOW TO INSTALL AND USE GRID 2.0?
- # DESIGNING TEST SCRIPTS THAT CAN RUN ON THE GRID
- # USING THE DESIREDCAPABILITES OBJECT
- # USING THE REMOTEWEBDRIVER OBJECT
- # RUNNING A SAMPLE TEST CASE ON THE GRID
- # SEQUENTIAL AND PARALLEL TEST EXECUTION
- # RUNNING TESTS ON DIFFERENT OPERATING SYSTEMS
- # RUNNING TESTS ON DIFFERENT BROWSERS

MAVEN & JENKINS

MAVEN



- # WHAT IS MAVEN AND WHY MAVEN?
- # INSTALLING/CONFIGURING MAVEN
- # CREATING MAVEN PROJECT

- ✚ IMPORTING MAVEN PROJECT INTO ECLIPSE
- ✚ WHAT IS POM.XML?
- ✚ ADDING DEPENDENCIES TO POM.XML

JENKINS



Jenkins

- ✚ INSTALLING/CONFIGURING JENKINS
- ✚ SCHEDULING TEST EXECUTION IN JENKINS
- ✚ AUTO MAIL CONFIGURATION IN JENKINS
- ✚ WHAT IS CONTINUOUS INTEGRATION?
- ✚ CONTINUOUS INTEGRATION WITH JENKINS

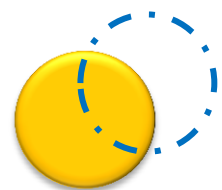
GIT

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git

- ✚ DOWNLOADING AND INSTALLING GIT
- ✚ INSTALLING GIT AND GITHUB
- PLUG-INS FOR JENKINS
- ✚ CONFIGURING SSH HOST KEYS
- FOR GIT AND JENKINS
- ✚ GIT BASH COMMANDS
- ✚ UPLOADING PROJECT TO GIT





LOG4J

- ✚ INTRODUCTION ABOUT LOGGING
- ✚ LOGGING PROBLEMS WITHOUT LOG4J
- ✚ HOW TO SOLVE LOGGING PROBLEM WITH LOG4J
- ✚ WHAT IS LAYOUT?
- ✚ DIFFERENT TYPES OF LAYOUTS IN LOG4J
- ✚ WHAT IS APPENDER?
- ✚ DIFFERENT TYPES OF APPENDERS



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**GETTING A HIGH PAYING JOB OR
SETTING UP YOUR BUSINESS**

**BEST WISHES FOR YOUR GREAT
ENDEAVORS & FUTURE!**



THANK YOU!