PLAYWRIGHT WITH TYPESCRIPT
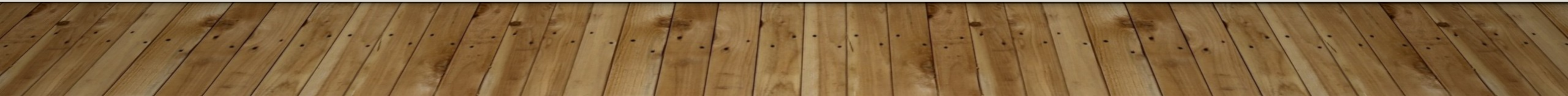

Let's talk auto-misson [automation] while playing-it-right with playwright.

Playwright

with Typescript

AGENDA/TOPICS/COVERAGE

ISHA
Making IT Easy

GETTING STARTED WITH TYPESCRIPT

➢ WHAT IS TYPESCRIPT ?

➢ SETTING UP TYPESCRIPT ENVIRONMENT

➢ DIFFERENCE FROM JAVASCRIPT : STATICALLY TYPED, TRANSPILATION, STRONGLY TYPED, ETC.

➢ VARIABLE DECLARATION IN TYPESCRIPT

➢ TYPESCRIPT UNION

➢ TYPE ALIASES/MULTI-TYPES

➢ VARIABLE SCOPE IN TYPESCRIPT

➢ IDENTIFIERS AND KEYWORDS IN TYPESCRIPT

➢ DATATYPES IN TYPESCRIPT

➢ FUNCTIONS, INTERFACES AND CLASSES IN TYPESCRIPT

➢ ARRAY

INTRODUCTION TO PLAYWRIGHT

➤ WHAT IS PLAYWRIGHT ?

➤ SELENIUM, CYPRESS AND PLAYWRIGHT ARCHITECTURE

➤ HTTP VS WEBSOCKET PROTOCOL

➤ SELENIUM VS CYPRESS VS PLAYWRIGHT – WHICH ONE TO SELECT ?

➤ SMALL CASE STUDY

GETTING STARTED WITH PLAYWRIGHT

➢ PRE-REQUISITES AND SETUP

➢ RUN YOUR 1ST PLAYWRIGHT TEST

➢ LAUNCHING BROWSER

➢ BROWSER, PAGE, PAGE CONTEXT IN PLAYWRIGHT

➢ RECORDING TESTS WITH PLAYWRIGHT

➢ ASSERTIONS IN PLAYWRIGHT

➢ REPORTS, SCREENSHOTS, VIDEOS IN PLAYWRIGHT

➢ DEBUGGING AND TROUBLESHOOTING

CI/CD WITH GIT AND CIRCLE CI

➢ UNDERSTANDING CONCEPT OF CI/CD

➢ CREATING REPO ON GITHUB

➢ BASIC GITHUB COMMANDS

➢ GITHUB INTEGRATION AND RUNNING TESTS WITH GITHUB ACTIONS

➢ CIRCLE CI INTEGRATION USING GITHUB AND RUNNING TESTS WITH CIRCLE CI

➢ HOW CAN HELP IN UNIT TESTING AND CD ?

HANDLING UI ELEMENTS IN PLAYWRIGHT

➤ ALERTS

➤ DROPDOWNS

➤ FRAMES

➤ MULTIPLE WINDOWS/TAB

➤ DATE PICKER

➤ WEB TABLES

➤ FILE UPLOAD AND DOWNLOAD

ADVANCED INTERACTIONS IN PLAYWRIGHT

➤ PAGE OBJECTS

➤ PLAYWRIGHT HOOKS AND FIXTURE

➤ PARALLELISM OR RUN TESTS IN PARALLEL

➤ DYNAMIC DATA HANDLING (VIA JSON)

➤ API AUTOMATION

➤ REPORT HANDLING (ALLURE REPORTING)

➤ BDD WITH CUCUMBER

      ↄ SETUP

      ↄ FEATURE FILE, STEP DEFINITION, CONFIGURATIONS

      ↄ CUCUMBER REPORTS WITH CHART

TRAINING CLOSURE

➢ RESOLVING QUERIES/ISSUES

➢ QUICK WALKTHROUGH ON HOW TO BUILD A AUTOMATION FRAMEWORK WITH PLAYWRIGHT

➢ INTERVIEW QUESTIONS PREPARATION

➢ CERTIFICATION WOULD BE PROVIDED BY THE INSTITUTE TO ALL TRAINEES