Web Testing Automation Manual Abu Md Salahuddin

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Title: Web Testing Automation using Selenium and Java

Test Tools used:

IDE: IntelliJ IDEA
 Script language: Java
 Selenium: latest version

• Browser: both Firefox and Chrome

• Testing Framework: JUnit

GitHub Link: https://github.com/sbappy88/CNSBD.git

GitHub Folder Structure:

.idea folder: contains project specific settings configuration files

- src folder: contains project main java file, configuration and Util files
- Resources/Data folder: contains project test data in cfg file
- target folder: contains project compiled class files
- TestCase folder: contains web application test cases and bugs report within the tab

How to run main java file and path:

- File name: WebTest.java
- File path: src/test/java/com/WebTest.java
- Run file: right click and then Run as > Java application

WebTest java file description:

Browser setup for Firefox or Chrome

```
@Before
public void setUp() {
System.setProperty("webdriver.gecko.driver","C:\\geckodriver.exe");
    WebDriverManager.firefoxdriver().setup();
driver = new FirefoxDriver();
js = (JavascriptExecutor) driver;
vars = new HashMap<String, Object>();

    //Please uncomment if wants to test in Chrome browser
    // System.setProperty("webdriver.chrome.driver","C:\\chromedriver.exe");
    //WebDriverManager.chromedriver().setup();
    //driver = new ChromeDriver();

    driver.manage().window().maximize();

    //Test case id: TC_01 verify Open the web aplication
String url= "http://123.200.20.20:5302/";
driver.get(url);
}
```

Run all the test cases under the main function

```
* Function Name: main
      * Description: this is main function which will execute all test cases one by one
       Parameters: None
@Test
public void main () throws Exception{
    try {
        // Initialize data
        MainInitData.preCheckExec();
        loginInitdata = MainInitData.getInstance();
        LoginlInitData.preCheckExec();
        loginData = LoginlInitData.getInstance();
        scriptMgmt = ScriptsMgmt.getInstance();
        logger = Logger.getInstance();
        InitData.setScriptName("com.WebTest");
        scriptMgmt.logHeader(InitData.scriptName);
        // Execute all test case Sequentially
        CircularSearch(); // Test Case ID: TC 02
        JobApplyNow(); // Test Case ID: TC 03, TC 06, TC 07 and TC 08
        BasicInformation(); // Test Case ID: TC 09, TC 10
        Address(); // Test Case ID: TC 11
        Education(); // Test Case ID: TC_12
        JobExperience(); // Test Case ID: TC_13
        Certificate(); // Test Case ID: TC_14
        Complete(); // Test Case ID: TC_15
    }catch (Exception e)
        e.printStackTrace();
        //scriptMgmt.logFail stop sendmail(InitData.scriptName,e);
```

• Single Test case Function description and Inline comments

```
* Function Name: CircularSearch
     * Description: this function will click on a specific circular and then apply for job without login
     * Test Case reference number: TC 03, TC 06, TC 07 and TC 08
     * Parameters: None
public void JobApplyNow() throws Exception{
 vars.put("window_handles", driver.getWindowHandles());
 driver.findElement(By.linkText("14/2023")).click();
 //Switch between browser tabs using Selenium WebDriver
 driver.getWindowHandles().forEach(tab->driver.switchTo().window(tab));
 assertTrue(driver.findElement(By.id("circularDtl")).isDisplayed());
 //Click on the Action icon
 driver.findElement(By.cssSelector(".bx-show")).click();
 //Click on the Apply Now button
 driver.findElement(By.cssSelector("strong")).click();
 //Click on the Continue without Login button
 driver.findElement(By.linkText("Continue without Login")).click();
}//End of JobApplyNow
```