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package rahulshettyacademy.TestComponents;

import org.testng.annotations.AfterMethod;

import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.time.Duration;
import java.util.HashMap;
import java.util.List;
import java.util.Properties;

import org.apache.commons.io.FileUtils;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;

import com.fasterxml.jackson.core.type.TypeReference;
import com.fasterxml.jackson.databind.ObjectMapper;

import io.github.bonigarcia.wdm.WebDriverManager;
import rahulshettyacademy.pageobjects.LandingPage;

public class BaseTest {

    public WebDriver driver;
    public LandingPage landingPage;

    public WebDriver initializeDriver() throws IOException
    {
        // properties class

        Properties prop = new Properties();
        FileInputStream fis = new
FileInputStream(System.getProperty("user.dir")
                +
        "//src//main//java//rahulshettyacademy//resources//GlobalData.properties");
        prop.load(fis);

        String browserName = System.getProperty("browser")!=null ?

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System.getProperty("browser") :prop.getProperty("browser");
//prop.getProperty("browser");

    if (browserName.contains("chrome")) {
        ChromeOptions options = new ChromeOptions();
        WebDriverManager.chromedriver().setup();
        if(browserName.contains("headless")){
            options.addArguments("headless");
        }
        driver = new ChromeDriver(options);
        driver.manage().window().setSize(new
Dimension(1440,900)); //full screen

    } else if (browserName.equalsIgnoreCase("firefox")) {
        System.setProperty("webdriver.gecko.driver",
"/Users/rahulshetty//documents//geckodriver");
        driver = new FirefoxDriver();
        // Firefox
    } else if (browserName.equalsIgnoreCase("edge")) {
        // Edge
        System.setProperty("webdriver.edge.driver", "edge.exe");
        driver = new EdgeDriver();
    }

    driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
    driver.manage().window().maximize();
    return driver;

}

    public List<HashMap<String, String>> getJsonDataToMap(String filePath)
throws IOException
    {
        //read json to string
        String jsonContent = FileUtils.readFileToString(new File(filePath),
StandardCharsets.UTF_8);

        //String to HashMap- Jackson Databind

        ObjectMapper mapper = new ObjectMapper();
        List<HashMap<String, String>> data = mapper.readValue(jsonContent, new
TypeReference<List<HashMap<String, String>>>() {
        });
        return data;

        //{map, map}
    }

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```

        public String getScreenshot(String testCaseName, WebDriver driver) throws
IOException
        {
            TakesScreenshot ts = (TakesScreenshot)driver;
            File source = ts.getScreenshotAs(OutputType.FILE);
            File file = new File(System.getProperty("user.dir") + "//reports//"
+ testCaseName + ".png");
            FileUtils.copyFile(source, file);
            return System.getProperty("user.dir") + "//reports//" +
testCaseName + ".png";

        }

        @BeforeMethod(alwaysRun=true)
        public LandingPage launchApplication() throws IOException
        {

            driver = initializeDriver();
            landingPage = new LandingPage(driver);
            landingPage.goTo();
            return landingPage;

        }

        @AfterMethod(alwaysRun=true)

        public void tearDown()
        {
            driver.close();
        }
    }

```