Reference - http://toolsqa.com/selenium-webdriver/testng-data-provider-excel/ **TestData.xlsx** **TestCName** ]**0,0[** **UserName** ]**0,1[** **Password** ]**0,2**[ TestC1\_**001** ]1,0[ **te**stuser\_001 ]1,1[ Test11@ABC ]1,2[ TestC2\_**002** ]2,0[ **te**stuser\_002 ]2,1[ Test22@ABC ]2,2[ LogIn Application with TestNG Data Provider Test Case Maintained in Excel Sheet **Step 1 - Create DataProviderTest** import java.util.concurrent.TimeUnit; import org.openqa.selenium.By; import org.openqa.selenium.WebDriver; import org.openqa.selenium.firefox.FirefoxDriver; import org.testng.annotations.DataProvider; import org.testng.annotations.Test; public class DataProviderTest { private static WebDriver driver; @DataProvider(name = "Authentication")  **public static Object[][] pairObjects() {** return new Object[][] { { "testuser\_1", "Test11@ABC" }, { "testuser\_2", "Test22@ABC" }}; } // Here we are calling the Data Provider object with its Name @Test(dataProvider = "Authentication")  **public void test(String sUsername, String sPassword) {** driver = new FirefoxDriver(); driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS); driver.get("http://www.store.demoqa.com"); driver.findElement(By.xpath(".//\*[@id='account']/a")).click(); // Argument passed will be used here as String Variable driver.findElement(By.id("log")).sendKeys(sUsername); driver.findElement(By.id("pwd")).sendKeys(sPassword); driver.findElement(By.id("login")).click(); driver.findElement(By.xpath(".//\*[@id='account\_logout']/a")).click(); driver.quit(); } } **Step 4: Create a TestNg test case for accepting data from Excel using Data Provider** import java.util.concurrent.TimeUnit; import org.openqa.selenium.By; import org.openqa.selenium.WebDriver; import org.openqa.selenium.firefox.FirefoxDriver; import org.testng.annotations.AfterMethod; import org.testng.annotations.BeforeMethod; import org.testng.annotations.Test; import org.testng.annotations.DataProvider; import utility.ExcelUtils;  **public class DataProviderWithExcel\_001 {** WebDriver driver; @BeforeMethod public void beforeMethod() throws Exception { driver = new FirefoxDriver(); driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS); driver.get("http://www.store.demoqa.com"); } @Test(dataProvider="Authentication")  **public void Registration\_data(String sUserName,String sPassword)throws Exception{** driver.findElement(By.xpath(".//\*[@id='account']/a")).click(); driver.findElement(By.id("log")).sendKeys(sUserName); LOGGER.debug(sUserName); driver.findElement(By.id("pwd")).sendKeys(sPassword); LOGGER.debug(sPassword); driver.findElement(By.id("login")).click(); LOGGER.debug(" Login Successfully, now it is the time to Log Off buddy."); driver.findElement(By.xpath(".//\*[@id='account\_logout']/a")).click(); } @DataProvider  **public Object[][] Authentication() throws Exception{** Object[][] testObjArray = ExcelUtils.getTableArray("D://ToolsQA//OnlineStore//src//testData//TestData.xlsx","Sheet1"); return (testObjArray); } @AfterMethod public void afterMethod() { driver.close(); } } **Step 2: Create a Test Data sheet** **TestData.xlsx** **TestCName ]0,0[ UserName ]0,1[ Password ]0,2[** **TestC1\_001 ]1,0[** testuser\_001 ]1,1[ Test11@ABC ]1,2[ **TestC2\_002 ]2,0[** testuser\_002 ]2,1[ Test22@ABC ]2,2[ import org.apache.poi.xssf.usermodel.XSSFCell; import org.apache.poi.xssf.usermodel.XSSFRow; import org.apache.poi.xssf.usermodel.XSSFSheet; import org.apache.poi.xssf.usermodel.XSSFWorkbook; public class **ExcelUtils** { **private static** XSSFSheet ExcelWSheet; private static XSSFWorkbook ExcelWBook; private static **XSSFCell Cell;** private static XSSFRow Row; **public static void setExcelFile(String Path,String SheetName) throws Exception {** try { // Open the Excel file FileInputStream ExcelFile = new FileInputStream(Path); // Access the required test data sheet ExcelWBook = new XSSFWorkbook(ExcelFile); ExcelWSheet = ExcelWBook.getSheet(SheetName); } catch (Exception e){ throw (e); } }  **public static Object[][] pairObjectArrayCollect(String FilePath, String SheetName, int iTestCaseRow) throws Exception** { String[][] tabArray = null; try{ FileInputStream ExcelFile = new FileInputStream(FilePath); // Access the required test data sheet ExcelWBook = new XSSFWorkbook(ExcelFile); ExcelWSheet = ExcelWBook.getSheet(SheetName); int startCol = 1; int ci=0,cj=0; int totalRows = 1; int totalCols = 2; tabArray=new String[totalRows][totalCols]; for (int j=startCol;j<=totalCols;j++, cj++) { tabArray[ci][cj]=getCellData(iTestCaseRow,j); LOGGER.debug(tabArray[ci][cj]); } } catch (FileNotFoundException e) { LOGGER.debug("Could not read the Excel sheet"); e.printStackTrace(); } catch (IOException e) { LOGGER.debug("Could not read the Excel sheet"); e.printStackTrace(); } return(tabArray); } //This method is to read the test data from the Excel cell, in this we are passing parameters as Row num and Col num **public static String getCellData(int RowNum, int ColNum) throws Exception{** try{ Cell = ExcelWSheet.getRow(RowNum).getCell(ColNum); String CellData = Cell.getStringCellValue(); return CellData; }catch (Exception e){ return""; } }  **public static String getTestCaseName(String sTestCase)throws Exception{** String value = sTestCase; try{ int posi = value.indexOf("@"); value = value.substring(0, posi); posi = value.lastIndexOf("."); value = value.substring(posi + 1); return value; }catch (Exception e){ throw (e); } }  **public static int getRowContains(String sTestCaseName, int colNum) throws Exception{** int i; try { int rowCount = ExcelUtils.getRowUsed(); for ( i=0 ; i<rowCount; i++){ if (ExcelUtils.getCellData(i,colNum).equalsIgnoreCase(sTestCaseName)){ break; } } return i; }catch (Exception e){ throw(e); } }  **public static int getRowUsed() throws Exception {** try{ int RowCount = ExcelWSheet.getLastRowNum(); return RowCount; }catch (Exception e){ LOGGER.debug(e.getMessage()); throw (e); } } } import org.testng.annotations.Test; import org.testng.annotations.BeforeMethod; import org.testng.annotations.AfterMethod; import org.testng.annotations.DataProvider; import utility.ExcelUtils; **public class DataProviderWithExcel\_002 {** private String sTestCaseName; private int iTestCaseRow; WebDriver driver; @BeforeMethod  **public void beforeMethod() throws Exception {** driver = new FirefoxDriver(); driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS); driver.get("http://www.store.demoqa.com"); } @Test(dataProvider = "Authentication")  **public void TestDataProviderWithExcel\_002(String sUserName, String sPassword) {** driver.findElement(By.xpath(".//\*[@id='account']/a")).click(); driver.findElement(By.id("log")).sendKeys(sUserName); LOGGER.debug(sUserName); driver.findElement(By.id("pwd")).sendKeys(sPassword); LOGGER.debug(sPassword); driver.findElement(By.id("login")).click(); LOGGER.debug(" Login Successfully, now it is the time to Log Off buddy."); driver.findElement(By.xpath(".//\*[@id='account\_logout']/a")).click(); } @AfterMethod  **public void afterMethod() {** driver.close(); } @DataProvider  **public Object[][] pairObjectCollection() throws Exception{** // Setting up the Test Data Excel file ExcelUtils.setExcelFile("D://ToolsQA//OnlineStore//src//testData//TestData.xlsx","Sheet1"); sTestCaseName = this.toString(); // From above method we get long test case name including package and class name etc. // The below method will refine your test case name, exactly the name use have used sTestCaseName = ExcelUtils.getTestCaseName(this.toString()); // Fetching the Test Case row number from the Test Data Sheet // Getting the Test Case name to get the TestCase row from the Test Data Excel sheet iTestCaseRow = ExcelUtils.getRowContains(sTestCaseName,0); Object[][] pairObjectArrayCollection = ExcelUtils.pairObjectArrayCollect("D://ToolsQA//OnlineStore//src//testData//TestData.xlsx","Sheet1",iTestCaseRow); return (pairObjectArrayCollection); } }