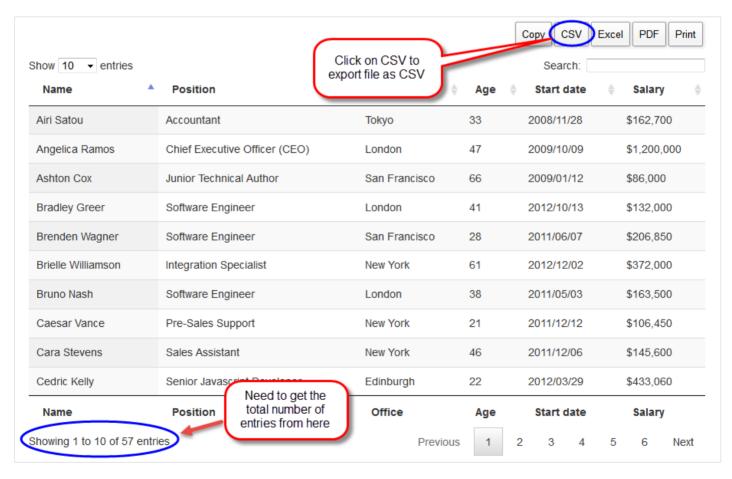
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How to verify entries in Exported CSV file

In this article we will look into verify Export functionality. Export functionality is exporting a document/downloading a document which has number of records / data which need to be verified. Generally exported document will be in the form of csv file. We will now read csv file with the help of Java FileReader and LineNumberReader

Export button will be placed to export the records/data to our local system from the application. If you observe the below image, you will see different options to export the data which is available in table.



We need to follow the below steps to verify the export functionality.

- Step 1:- First get the number of entries that the table has.
- Step 2:- Click on Export button (CSV in the case of below example).
- Step 3:- Download the document to a specific folder or default downloads folder.

Step 4:- Read the csv file and get number of entries in Csv (Need to exclude the header when comparing entries)

Step 5:- Compare the entries in the table and number of entries in the csv file.

Now we will see the below example:-

```
package com.pack;
import java.io.File;
import java.io.FileReader;
import java.io.IOException;
import java.io.LineNumberReader;
import org.openga.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.firefox.FirefoxProfile;
import org.testng.Assert;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;
public class ExportExample {
WebDriver driver;
        private static String downloadPath = "D:\\seleniumdownloads";
        private String URL="appURL";
        @BeforeClass
        public void testSetup() throws Exception{
                driver = new FirefoxDriver(firefoxProfile());
                driver.manage().window().maximize();
        }
        public static FirefoxProfile firefoxProfile() throws Exception {
                FirefoxProfile firefoxProfile = new FirefoxProfile();
                firefoxProfile.setPreference("browser.download.folderList",2);
                firefoxProfile.setPreference("browser.download.manager.showWhenStarti
ng", false);
                firefoxProfile.setPreference("browser.download.dir",downloadPath);
                firefoxProfile.setPreference("browser.helperApps.neverAsk.saveToDis
k",
"text/csv,application/x-msexcel,application/excel,application/x-excel,application/vn
d.ms-excel,image/png,image/jpeg,text/html,text/plain,application/msword,application/x
ml");
                return firefoxProfile;
        }
        public void testExportAllRecords() throws InterruptedException {
                driver.get(URL);
```

Below method is used to get the number of entries in the table as shown in the above image.

Below is the method to read the CSV file and get the number of entries present in the exported csv file. It takes the file name as the parameter

```
public int getRecordsCountInCSV(String downloadPath, String csvFileName)
{
                int lineNumberCount = 0;
                try {
                        if (!csvFileName.isEmpty() || csvFileName != null) {
                                String filePath =
                                                        downloadPath + System.get
Property("file.separator") + csvFileName;
                                System.out.println(filePath);
                                File file = new File(filePath);
                                if (file.exists()) {
                                        System.out.println("File found :" +csvFil
eName);
                                        FileReader fr = new FileReader(file);
                                        LineNumberReader linenumberreader = new L
ineNumberReader(fr);
                                        while (linenumberreader.readLine() != nul
1) {
                                                lineNumberCount++;
                                        }
                                        //To remove the header
                                        lineNumberCount=lineNumberCount-1;
                                        System.out.println("Total number of lines
found in csv : " + (lineNumberCount));
                                        linenumberreader.close();
                                } else {
                                        System.out.println("File does not exist
٠")٠
```

Below method is used to get the latest file from the directory. It takes the folder path as the parameter and returns the file which is recently added to the folder.

```
private File getLatestFilefromDir(String dirPath){
    File dir = new File(dirPath);
    File[] files = dir.listFiles();
    if (files == null || files.length == 0) {
        return null;
    }

    File lastModifiedFile = files[0];
    for (int i = 1; i < files.length; i++) {
        if (lastModifiedFile.lastModified() < files[i].lastModified()) {
            lastModifiedFile = files[i];
        }
    }
    return lastModifiedFile;
}</pre>
```

Hope the article helped you. Please fell free to comment if need more information.

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