Document guide –

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Problem Statement

We held a meeting with the stakeholder to discuss the issue.

The current list of Virtual machines and log on details exists in multiple copies in multiple locations. We recognised this as a potential security risk. We suggested we could build a software solution in Java that would restrict access to one single version of the file. Allow specified users access to amend the list when required. Validate all inputs and protect the workbook from becoming corrupt.

Dependencies for project.

Project requires the following software dependencies:

<https://gitforwindows.org/> \*

<https://tortoisegit.org/download/> \*

<https://github.com> \*

<https://www.eclipse.org/downloads/> \*\*

<https://www.oracle.com/technetwork/java/javase/downloads/index.html> \*\*

<https://padhle.com/add-apache-poi-java-eclipse-ide/> \*\*\*

<https://poi.apache.org/download.html> \*\*\*

\*for collaboration, sharing of code and version control

\*\*for development and testing of code

\*\*\*high level API allowing interaction with Microsoft Excel

I created a repository in GitHub to house the code during development and allow us to collaborate and develop against the same solution.

I produced the attached guide for installation of git for windows and tortoise git to facilitate collaboration and code sharing.



I found this guide to install the apache io API <https://padhle.com/add-apache-poi-java-eclipse-ide/> and added the poi files to our repo.

Construct and show single record screen

Construct and show multiple records screen

Construct and show single record screen

Construct and show search by PID

Construct and show search by Primary Function

Construct and show single record screen (null data)

Construct and show search by PID

Remove (single) record

Add (single) record

Amend by multiple records

Construct and show Amend window

Amend by single record

At Input Verify username and password

Main

Pass verification

Construct and show error message >END<

Construct and show User input window

Fail 3 times Show error message and end

Security

Class to work with Excel

Name: msExcel

Private methods to

outputSheet(Workbook w) using Apache IO workbook object and outputStream method. Writes out existing constructed workbook.

Public methods to

deleteRow()

appendRow() – see below

amendRow()

Tested so far

Append new row – appendNewRow(string[] row)

//allows the method to receive a String array argument and appends that to the existing worksheet.

Append new row – appendNewRow()

//for testing, 2D array is constructed and appended to the worksheet.

**Next session**

\*\* consider using ArrayList rather than string array. Also thinking about constructing the row array/arraylist within the class.

\*\* consider having the elements of a row being the class variables, constructed in the class. Then class would have methods to alter the excel sheet.