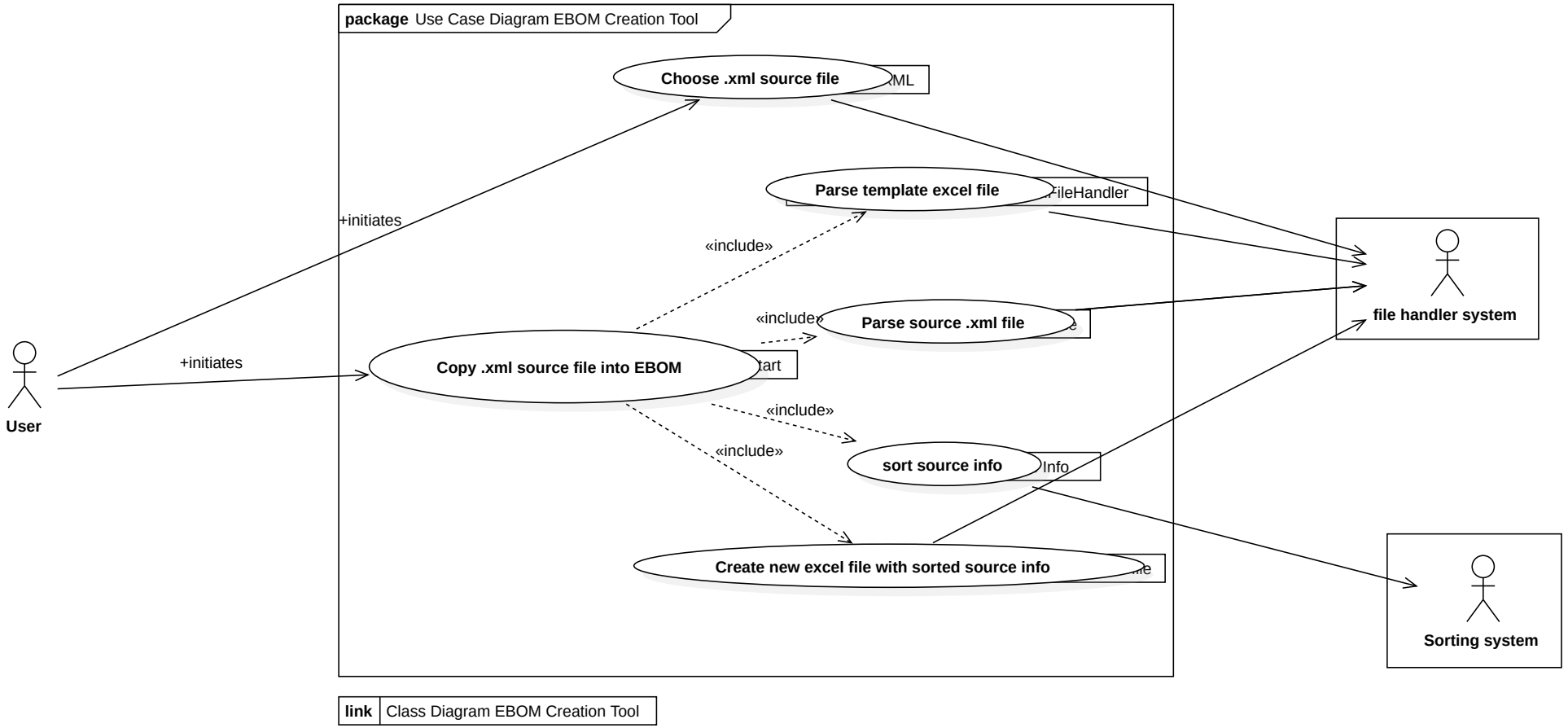
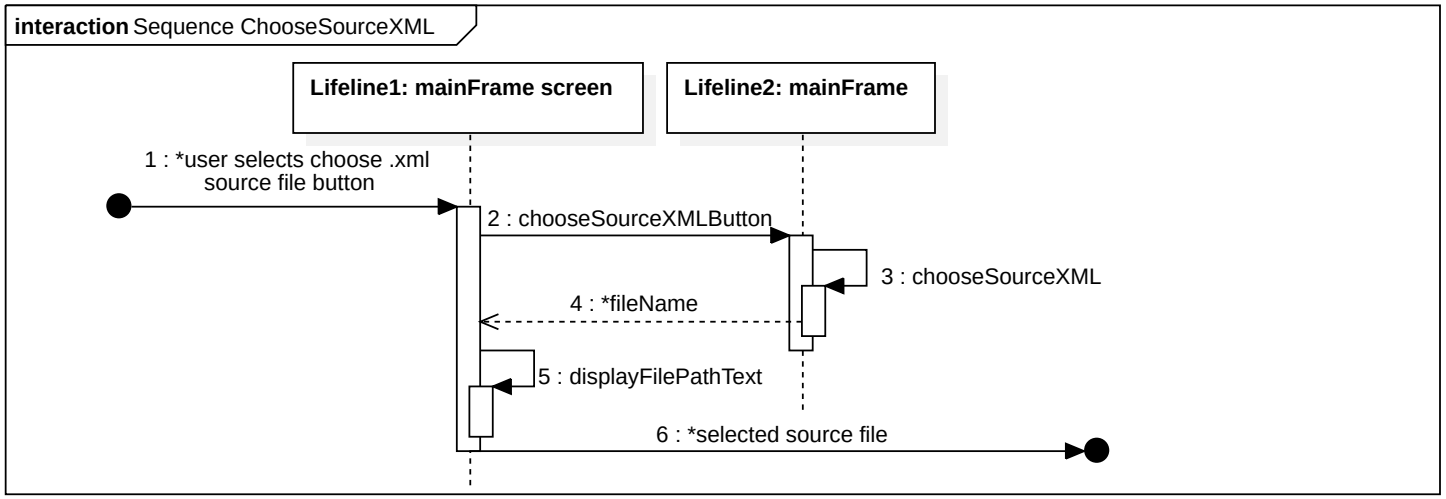
Use Case Diagram EBOM Creation Tool::UseCaseDiagram



Use Case Diagram EBOM Creation Tool::Choose .xml source file::Interaction1::Sequence ChooseSourceXML

link	UseCaseDiagram

link	Activity ChooseSourceXML



Text Use Case: choose source .xml file
Primary actor: user
Description:
0. User has started the program
1. User selects button to choose source xml
2. System opens file browser window
3. User selects source xml
4. System populates text box with selected file path.

link	Activity chooseSourceXMLButton

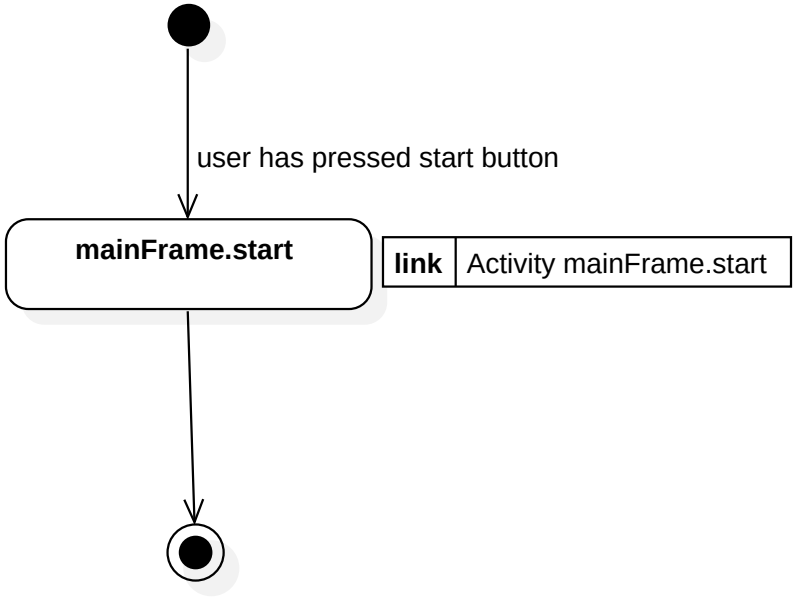
link	Activity chooseSourceXML

link	Activity displayFilePathText

Use Case Diagram EBOM Creation Tool::Copy .xml source file into EBOM::Activity mainFrame.bStart::Activity mainFrameScreen.bStart

link	UseCaseDiagram

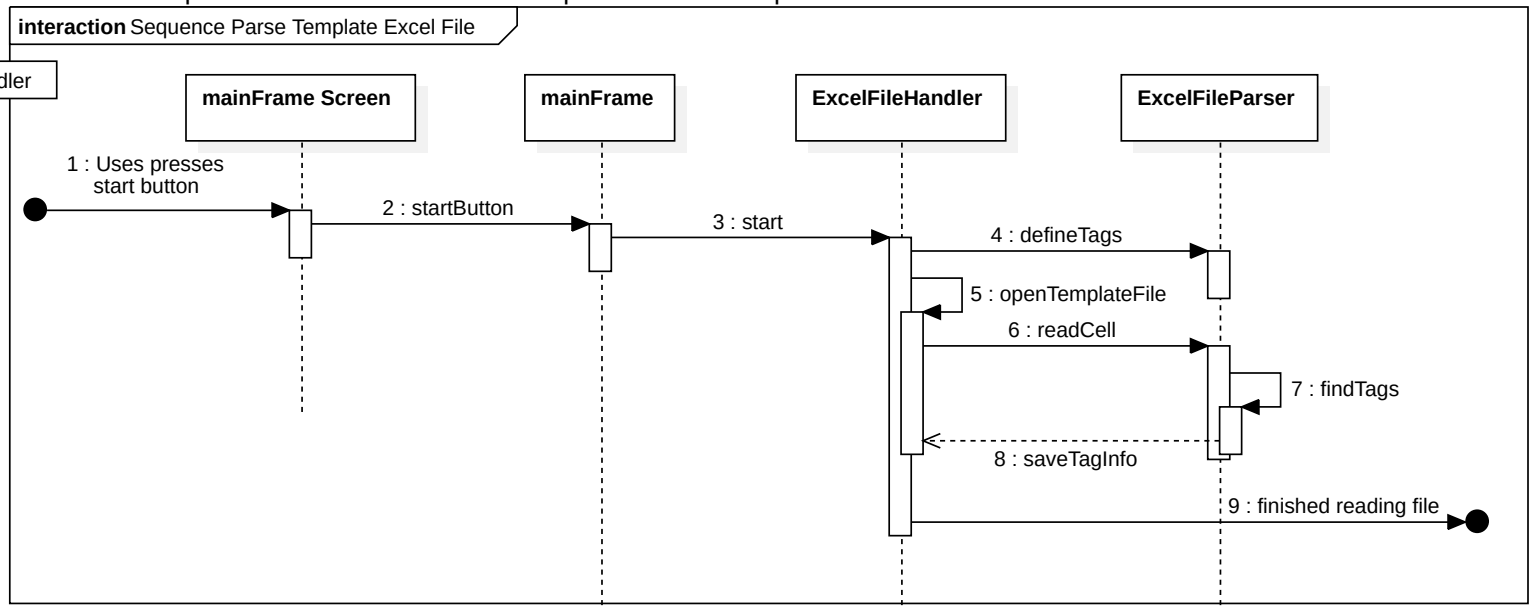
0. User presses start button of mainFrameScreen
1. mainFrameScreen.bStart recieves event and runs



Use Case Diagram EBOM Creation Tool::Parse template excel file::Interaction1::Sequence Parse Template Excel File

link	UseCaseDiagram

link	Activity excelFileHandler.excelFileHandler



Text Use Case: Parse template excel file
Primary actor: user
Description:
0. User has chosen excel file path.
1. User selects start button
2. System opens excel file.
3. System reads excel cells info one at a time.
4. System looks for specific tags which indicate:
    a. Which data to look for in the xml source file.
        i. First by title block
        ii. Second by header row
    b. How the data is to be sorted in the body of the excel file.
        i. Collect info on which column is to be sorted by priority
            1. Sorting methods to include are ascending, descending,custom character list.
    c. How far to search in the excel file.
5. System looks for certain cell attributes such as color and border if necessary.
6. System populates filter settings and sort settings for parsing source xml.

Use Case Diagram EBOM Creation Tool::Parse template excel file::Activity Parse Template Excel File::Activity excelFileHandler.excelFileHandler

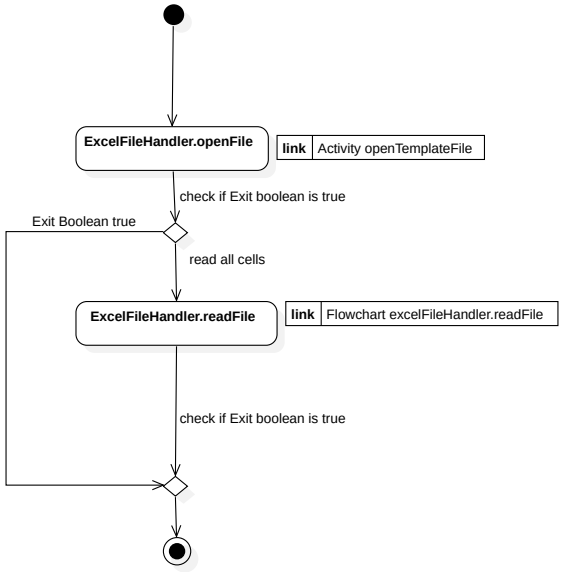
link	UseCaseDiagram

link	Sequence Parse Template Excel File

link	Activity mainFrame.start

excelFileHandler.excelFileHandler

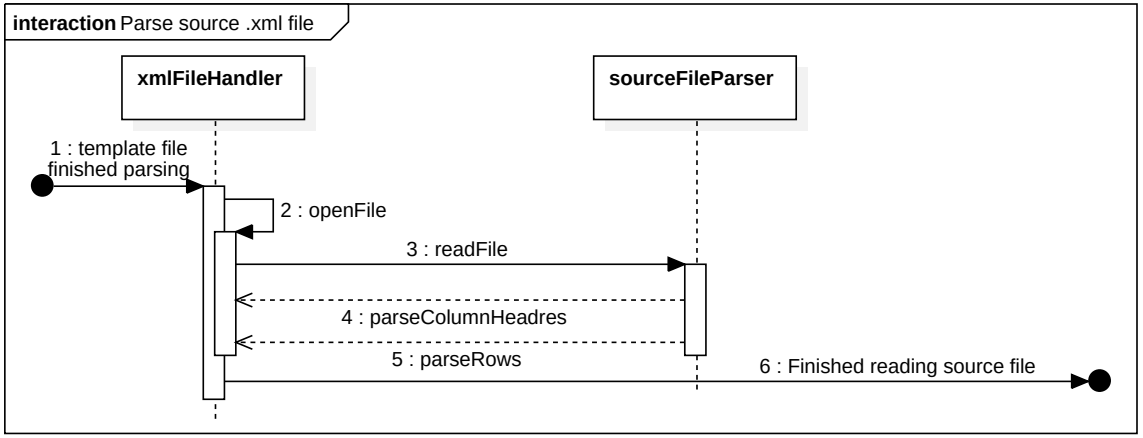
Text Use Case: Parse template excel file
Primary actor: user
Description:
0. User has chosen excel file path.
1. User selects start button
2. System opens excel file.
3. System reads excel cells info one at a time.
4. System looks for specific tags which indicate:
    a. Which data to look for in the xml source file.
        i. First by title block
        ii. Second by header row
    b. How the data is to be sorted in the body of the excel file.
        i. Collect info on which column is to be sorted by priority
            1. Sorting methods to include are ascending, descending,custom character list.
    c. How far to search in the excel file.
5. System looks for certain cell attributes such as color and border if necessary.
6. System populates filter settings and sort settings for parsing source xml.



ActivityPartition2

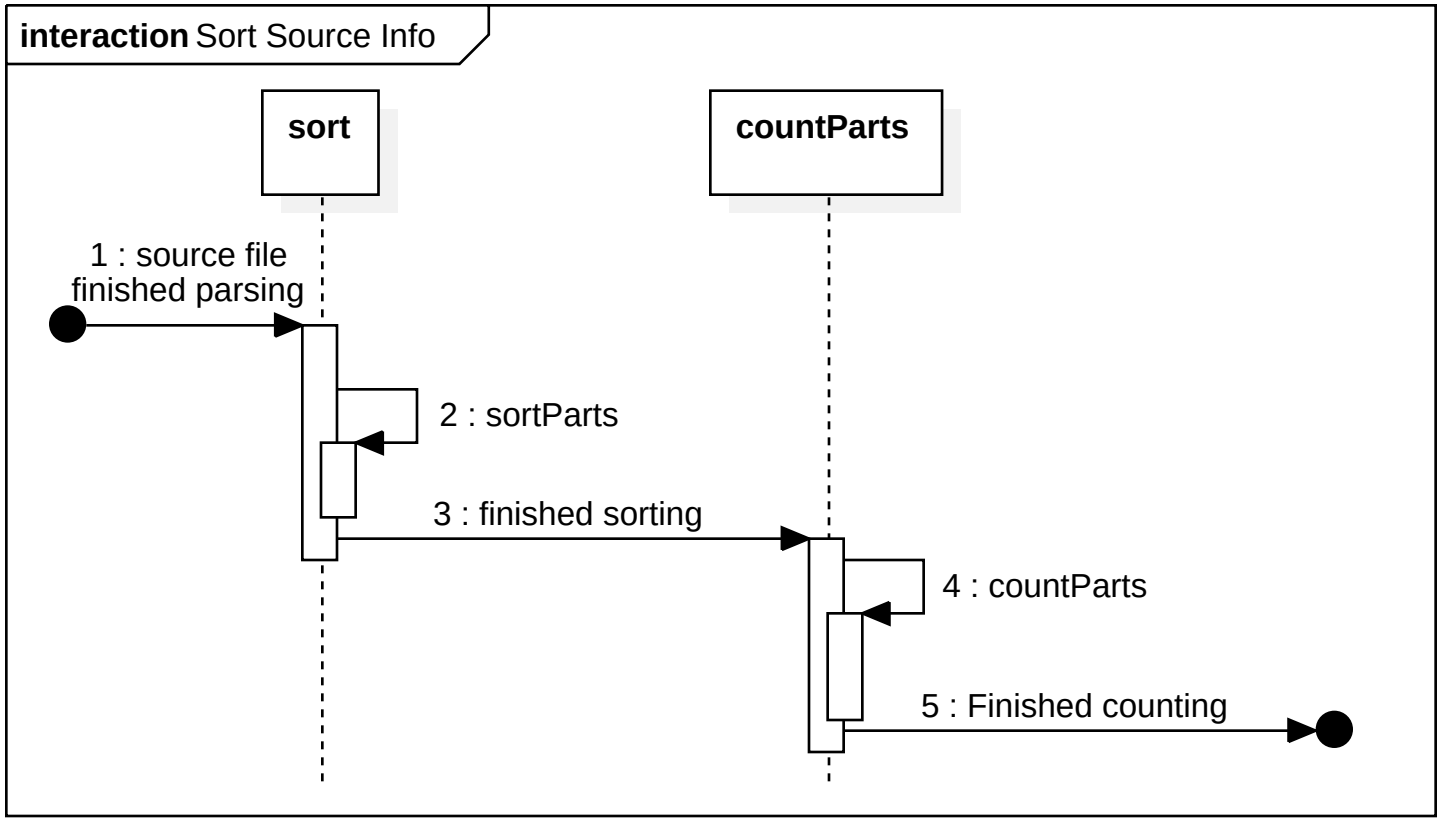
Use Case Diagram EBOM Creation Tool::Parse source .xml file::Interaction1::Parse source .xml file

link	Flowchart XMLfileHandler.XMLfileHandler



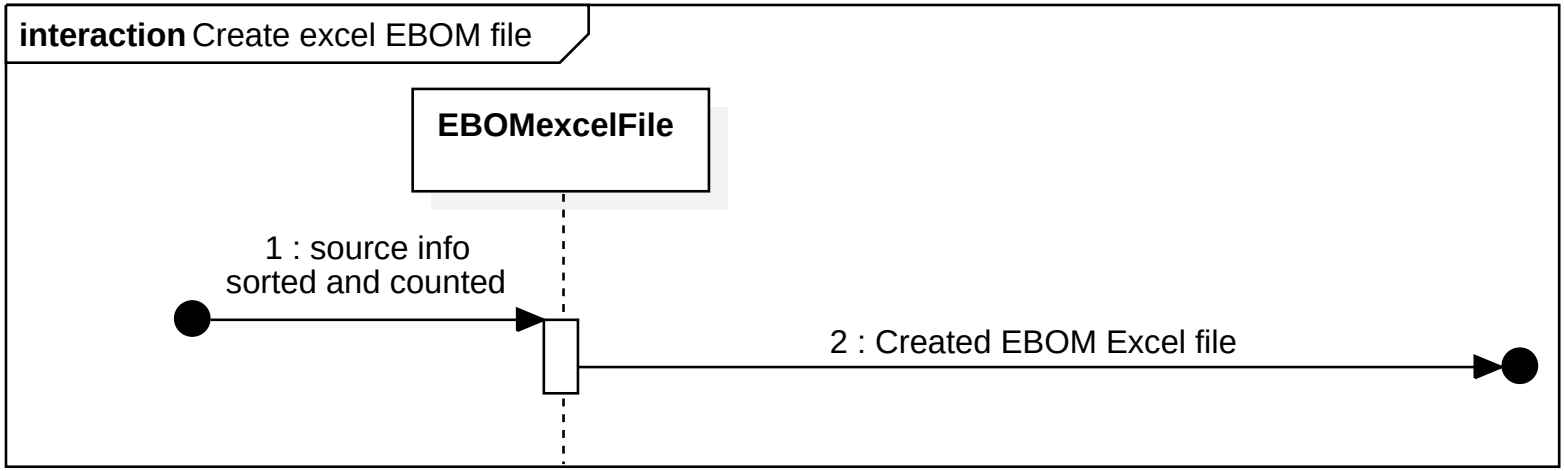
Text Use Case: Parse source xml file
Primary actor: parse template excel file
Description:
0. User has chosen source file path and the sorting and filter setting have been found.
1. System opens xml file.
2. System read xml by tag.
3. System collects data for the information that the template requires.
    a. Collect the info for the title block.
4. System collects info which the header row states will be required in the body of the EBOM excel file.

Use Case Diagram EBOM Creation Tool::Parse source .xml file::Interaction1::Sort Source Info



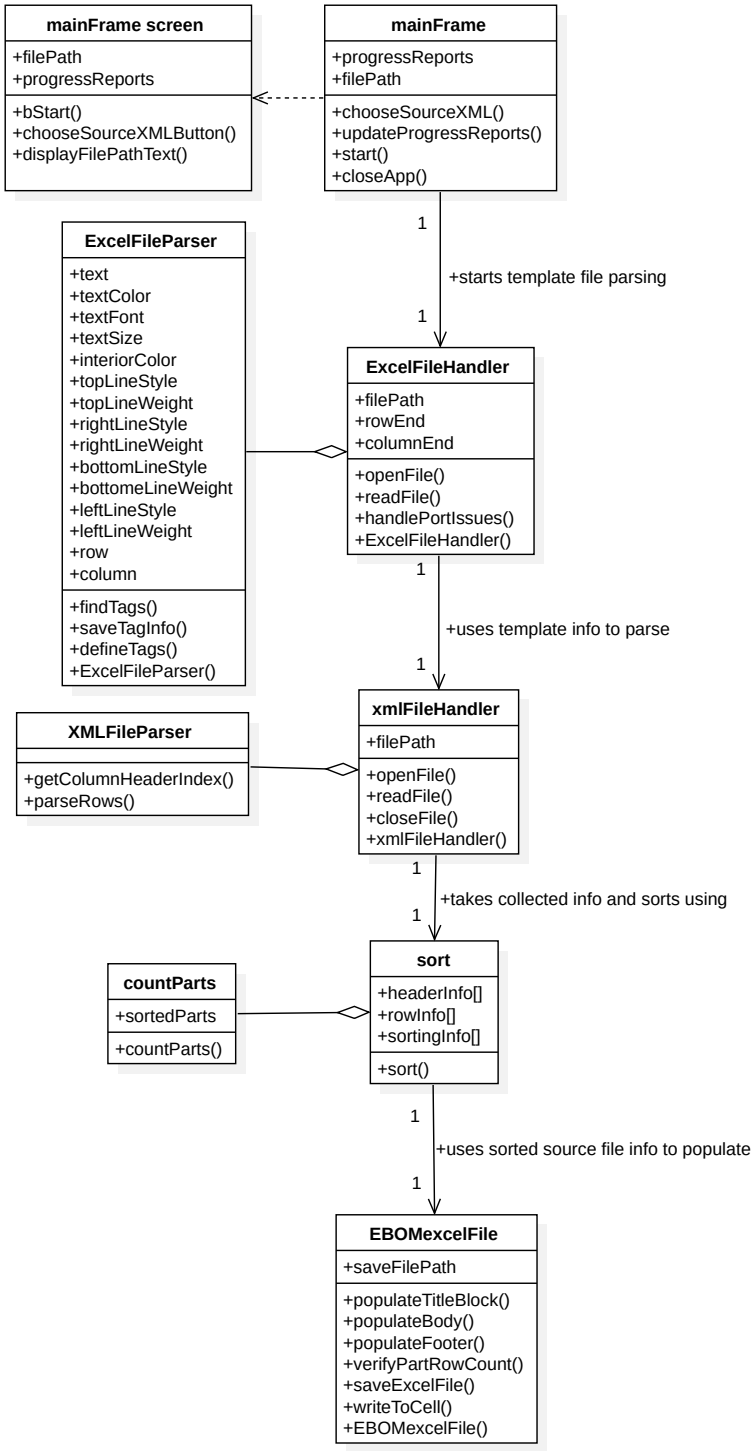
Text Use Case: Sort source file
Primary actor: parse source xml
Description:
0. The source file information has been collected and the sort settings are found.
1. System sort collected body information by sort settings
2. System counts identical parts and updates a column for quantity.
    a. The top row will contain the quantity, all bottom rows will have empty space in the quantity section.

Use Case Diagram EBOM Creation Tool::Create new excel file with sorted source info::Interaction1::Create excel EBOM file

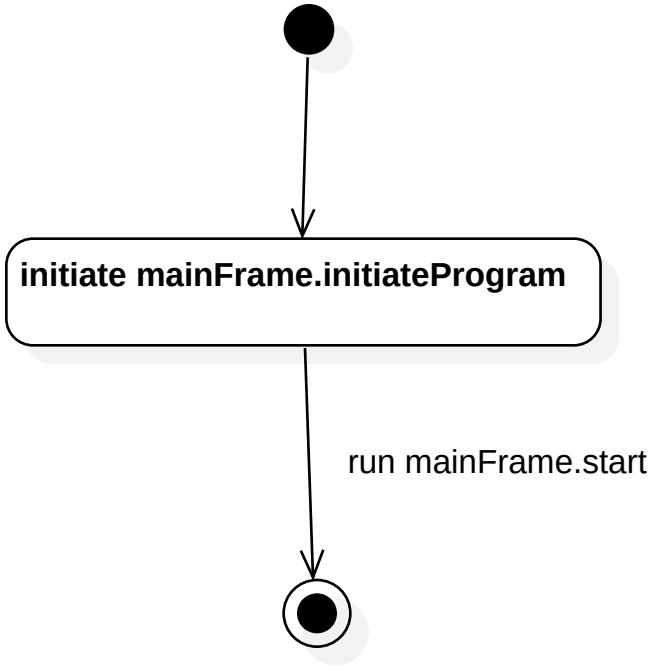


Text Use Case: Create excel EBOM file
Primary actor: Sort source file
Description:
0. The source xml info is sorted and ready for input into an excel file
1. System copy's source template and give it the file name of the source xml.
2. System replaces all header tags with the require information in the title block.
3. System removes unnecessary tags in the header row and the elsewhere.
4. System modifies all body cells with necessary color pattern.
5. System populates body rows with sorted list of components from source xml.
6. Verify the amount of rows created matches amount of components found in the source xml
7. System creates floating note with specific color and text recorded from source template and places it at the end of the body.
8. Resize all columns.

Class Diagram EBOM Creation Tool::Class Diagram EBOM Creation Tool

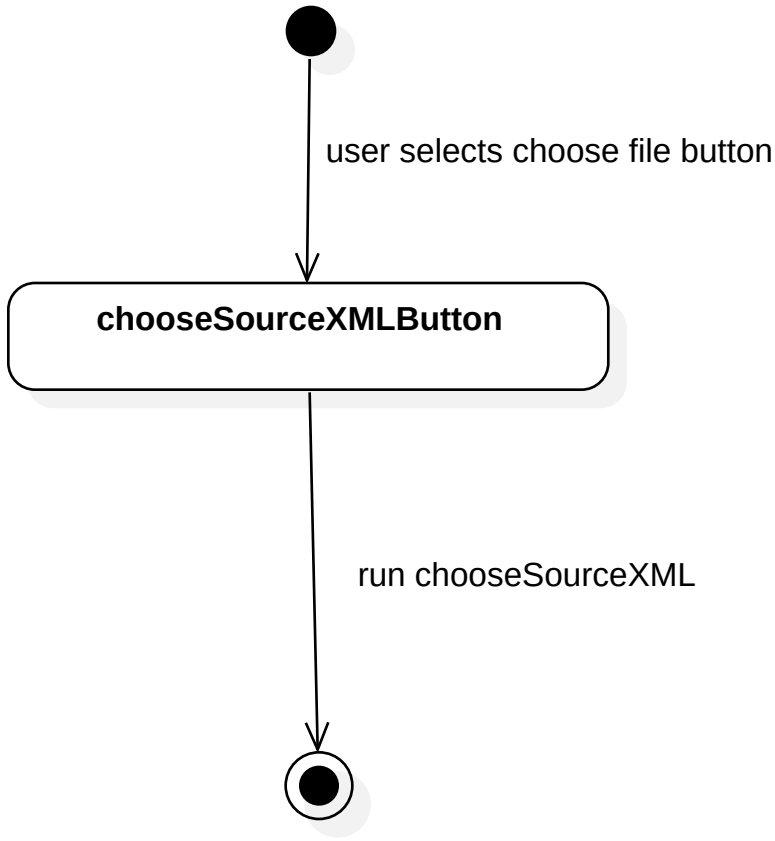


link	Activity excelFileHandler.excelFileHandler



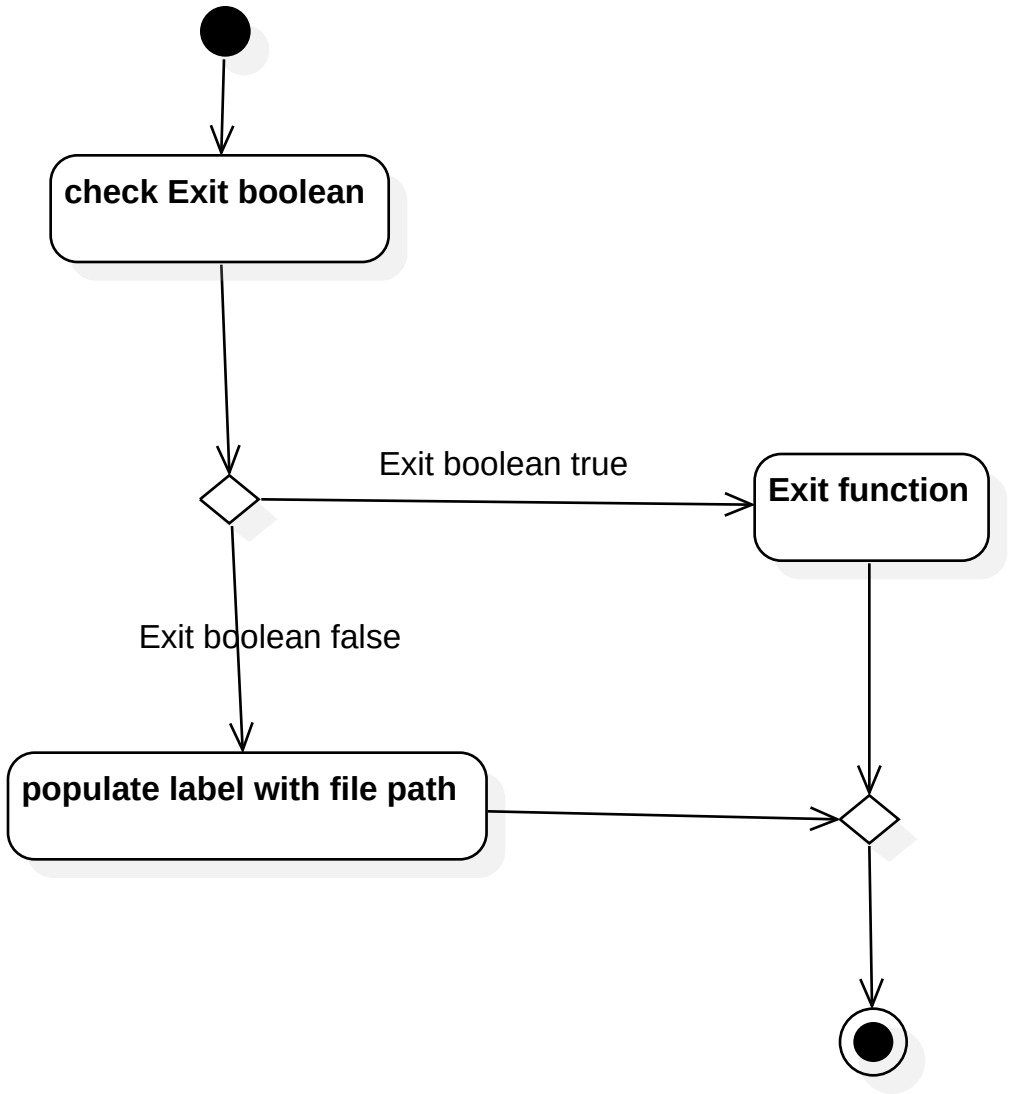
Class Diagram EBOM Creation Tool::mainFrame screen::chooseSourceXMLButton::chooseSourceXMLButton::Activity chooseSourceXMLButton

link	Activity ChooseSourceXML



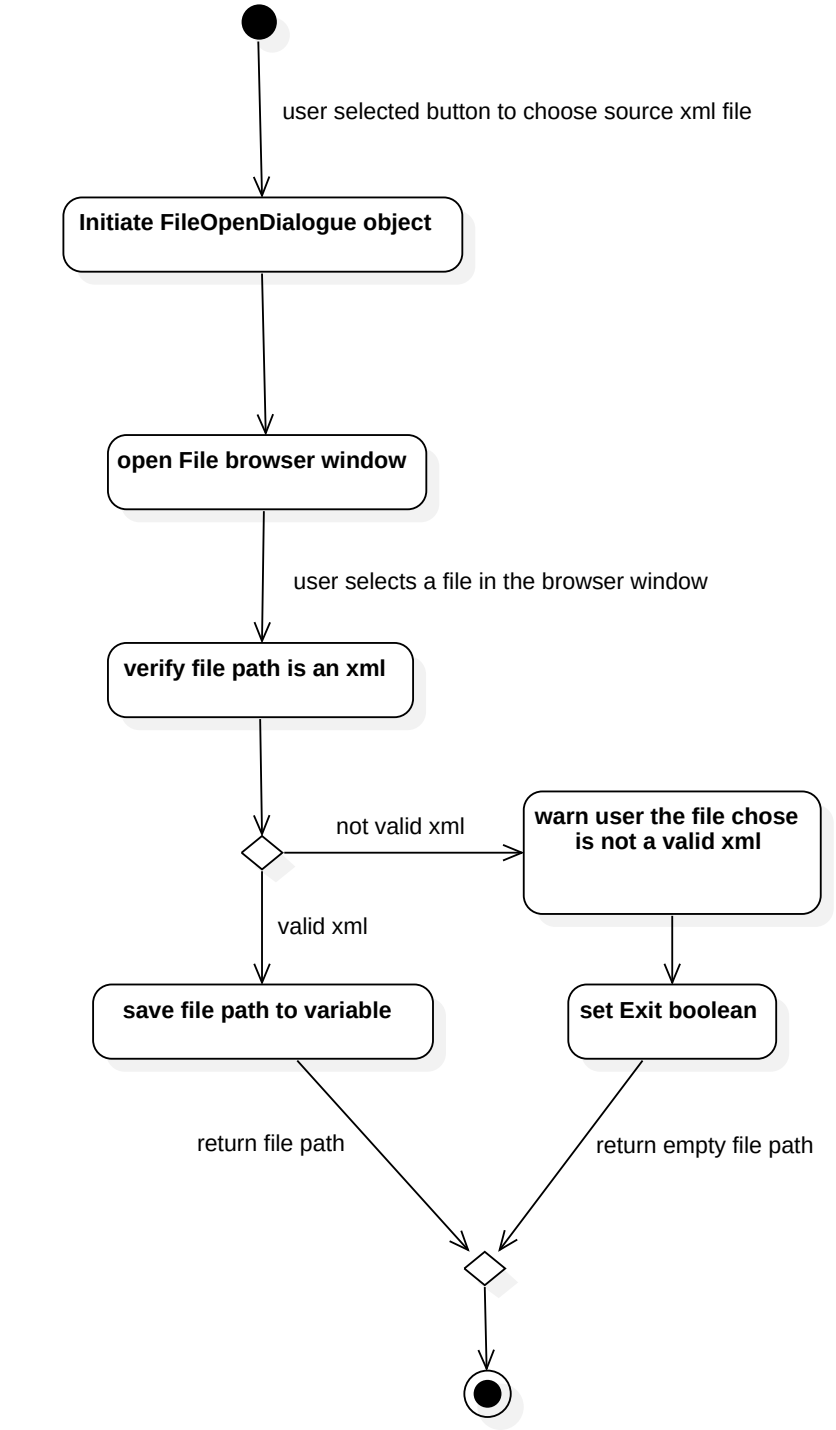
Class Diagram EBOM Creation Tool::mainFrame screen::displayFilePathText::Activity1::Activity displayFilePathText

link	Activity ChooseSourceXML



Class Diagram EBOM Creation Tool::mainFrame::chooseSourceXML::chooseSourceXML::Activity chooseSourceXML

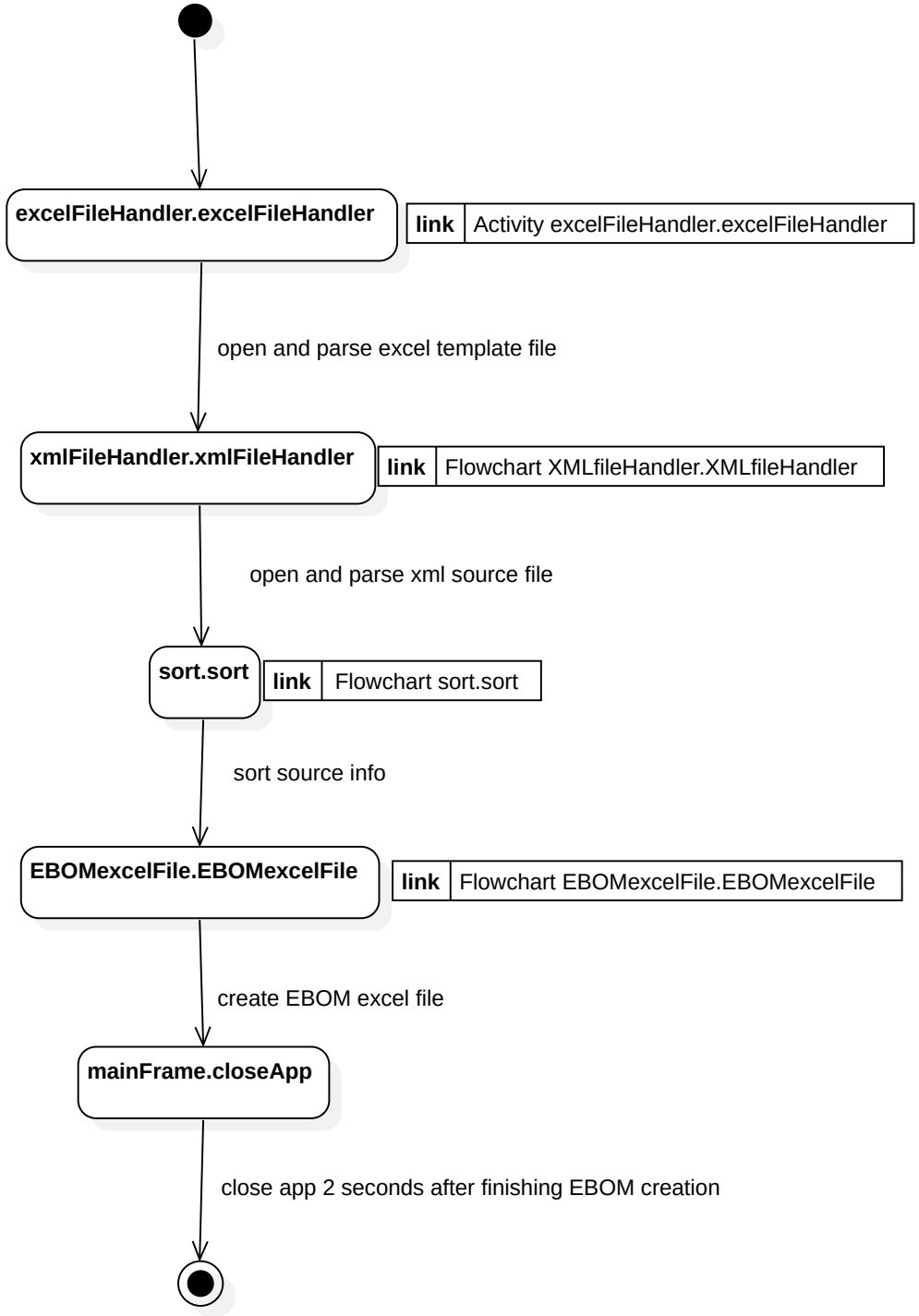
link	Activity ChooseSourceXML



Class Diagram EBOM Creation Tool::mainFrame::start::Activity mainFrame.start::Activity mainFrame.start

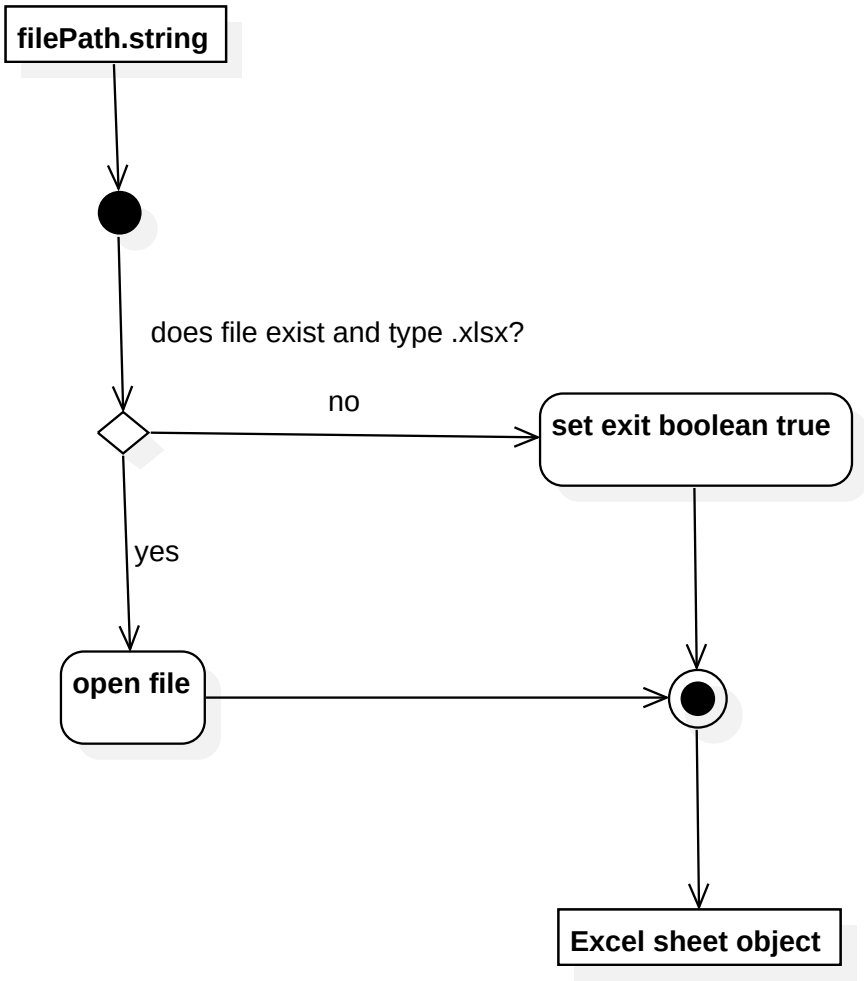
link	Activity mainFrameScreen.bStart

0.user has pressed start button in mainFrameScreen
1. mainframe.start runs 4 use cases.
    a. parse template excel file
    b. parse source xml file
    c. sort source info
    d. create new excel file with sorted source info.
2. closes program automatically after 2 seconds



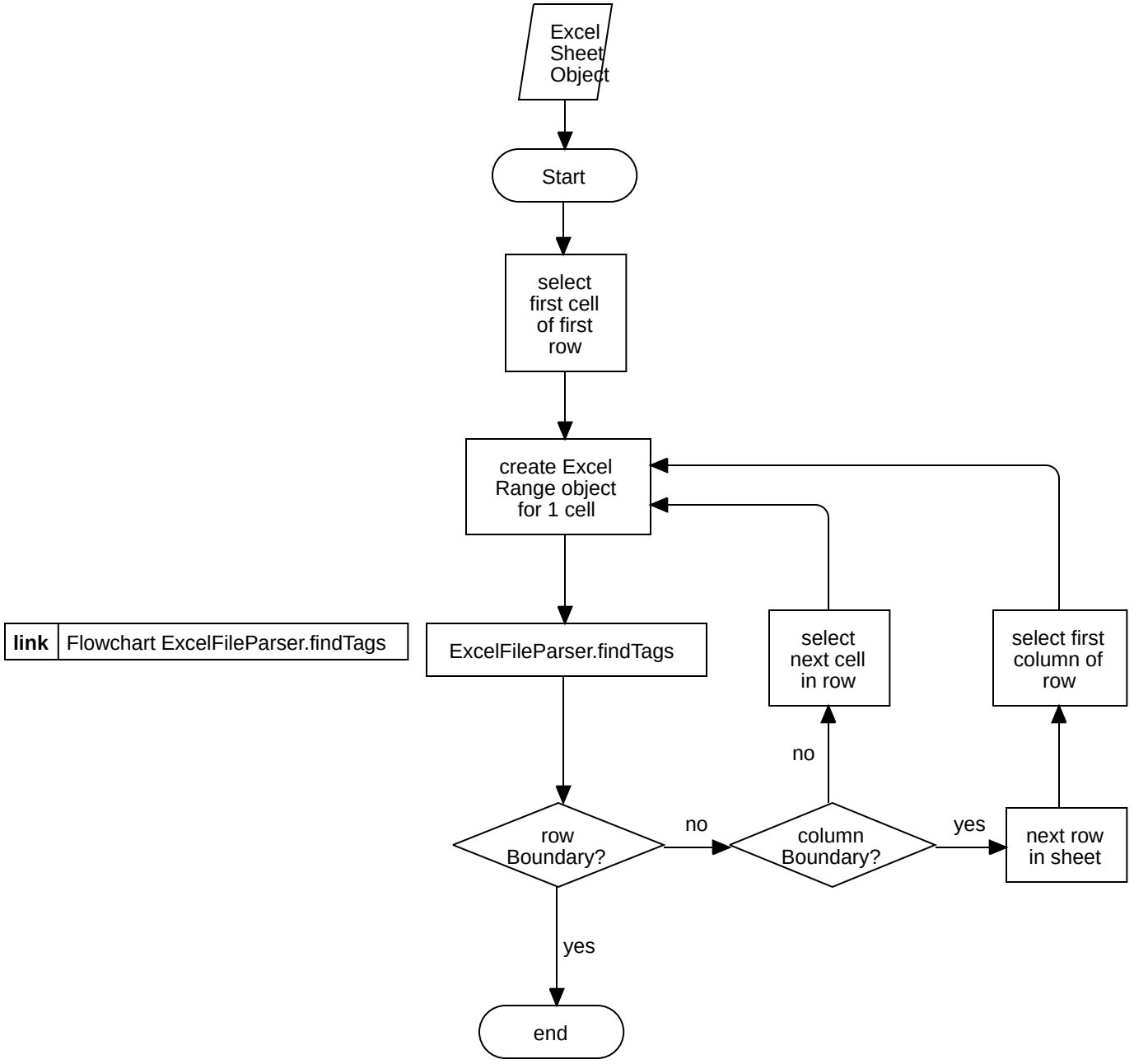
Class Diagram EBOM Creation Tool::ExcelFileHandler::openFile::Activity openTemplateFile::Activity openTemplateFile

link	Activity excelFileHandler.excelFileHandler



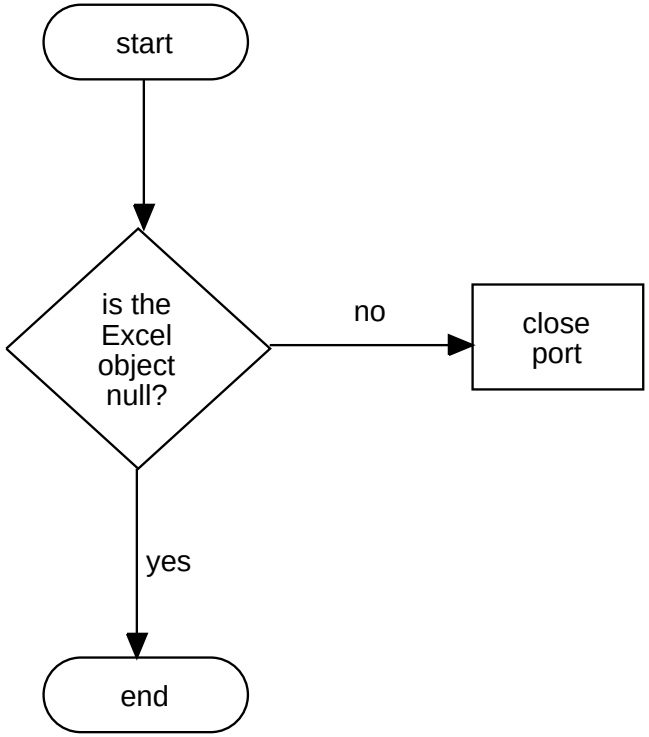
link	Activity excelFileHandler.excelFileHandler

Flowchart excelFileHandler.readFile



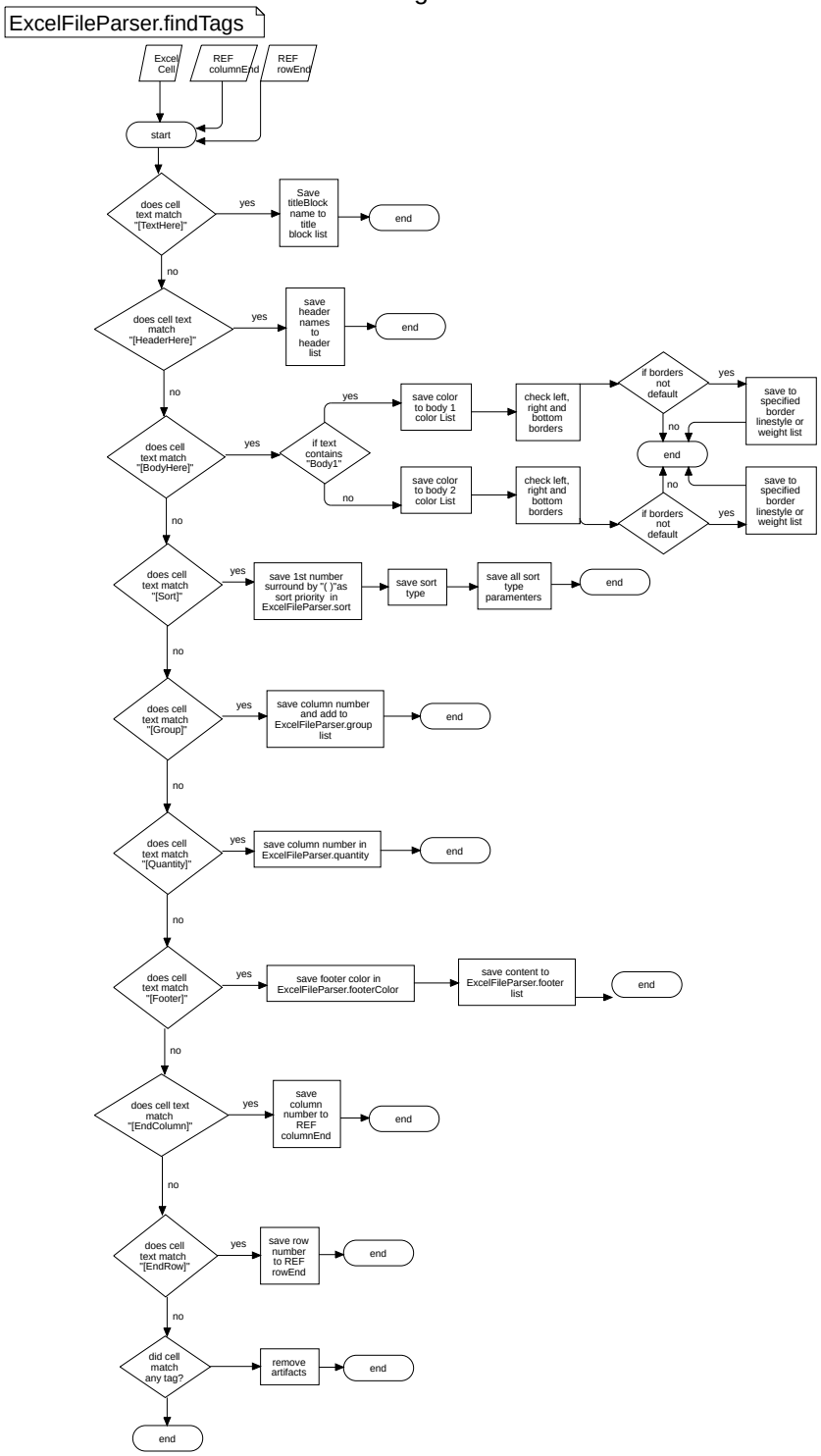
link	Flowchart ExcelFileParser.findTags

ExcelFileHandler.handlePortIssues



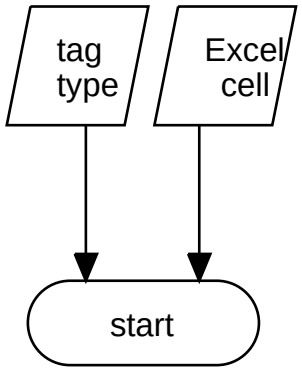
Class Diagram EBOM Creation Tool::ExcelFileParser::findTags::Flowchart ExcelFileParser.findTags::Flowchart ExcelFileParser.findTags

link	Flowchart excelFileHandler.readFile



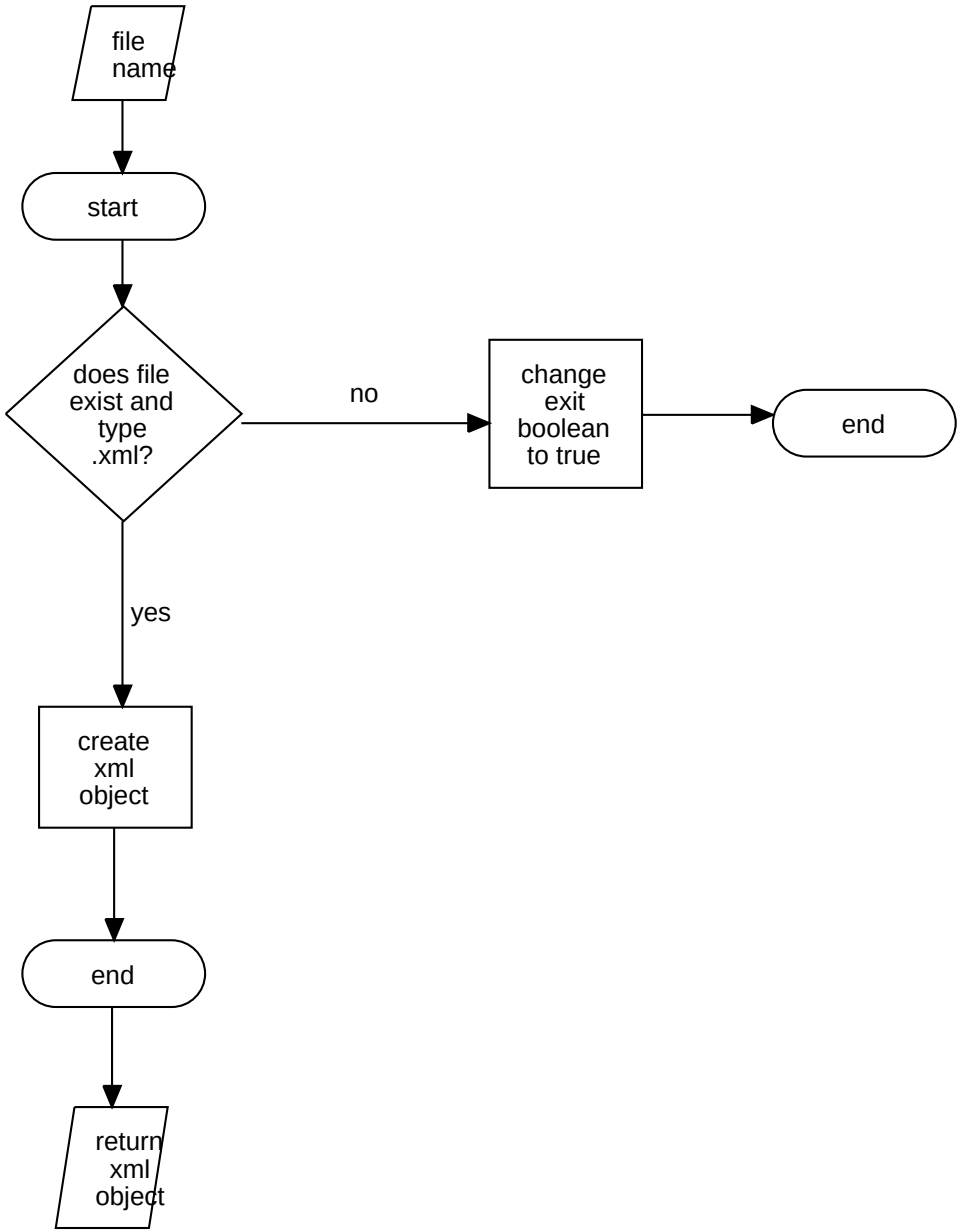
link	Flowchart ExcelFileParser.findTags

ExcelFileParser.saveTagInfo



link	Flowchart XMLfileHandler.XMLfileHandler

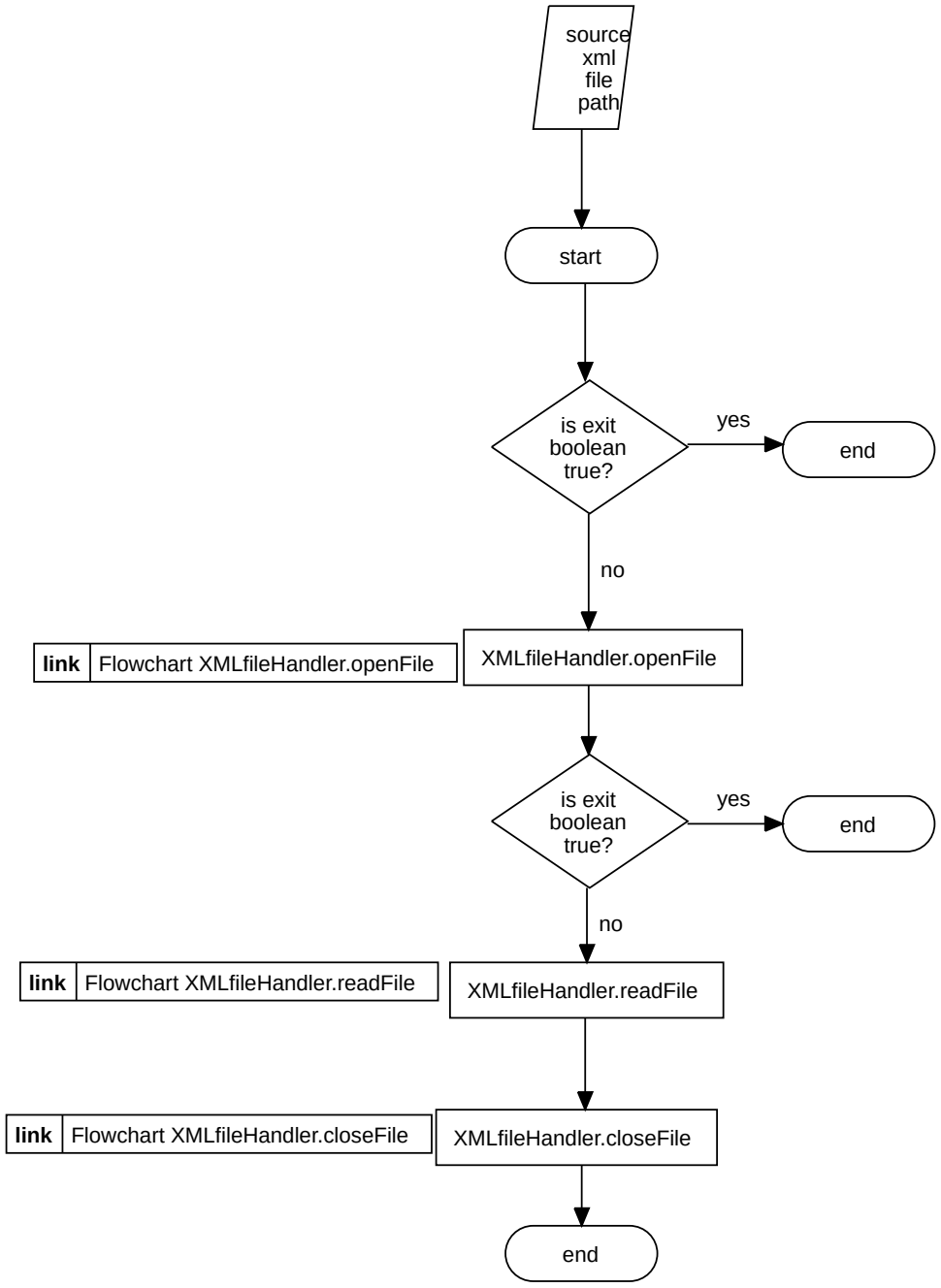
XMLfileHandler.openFile



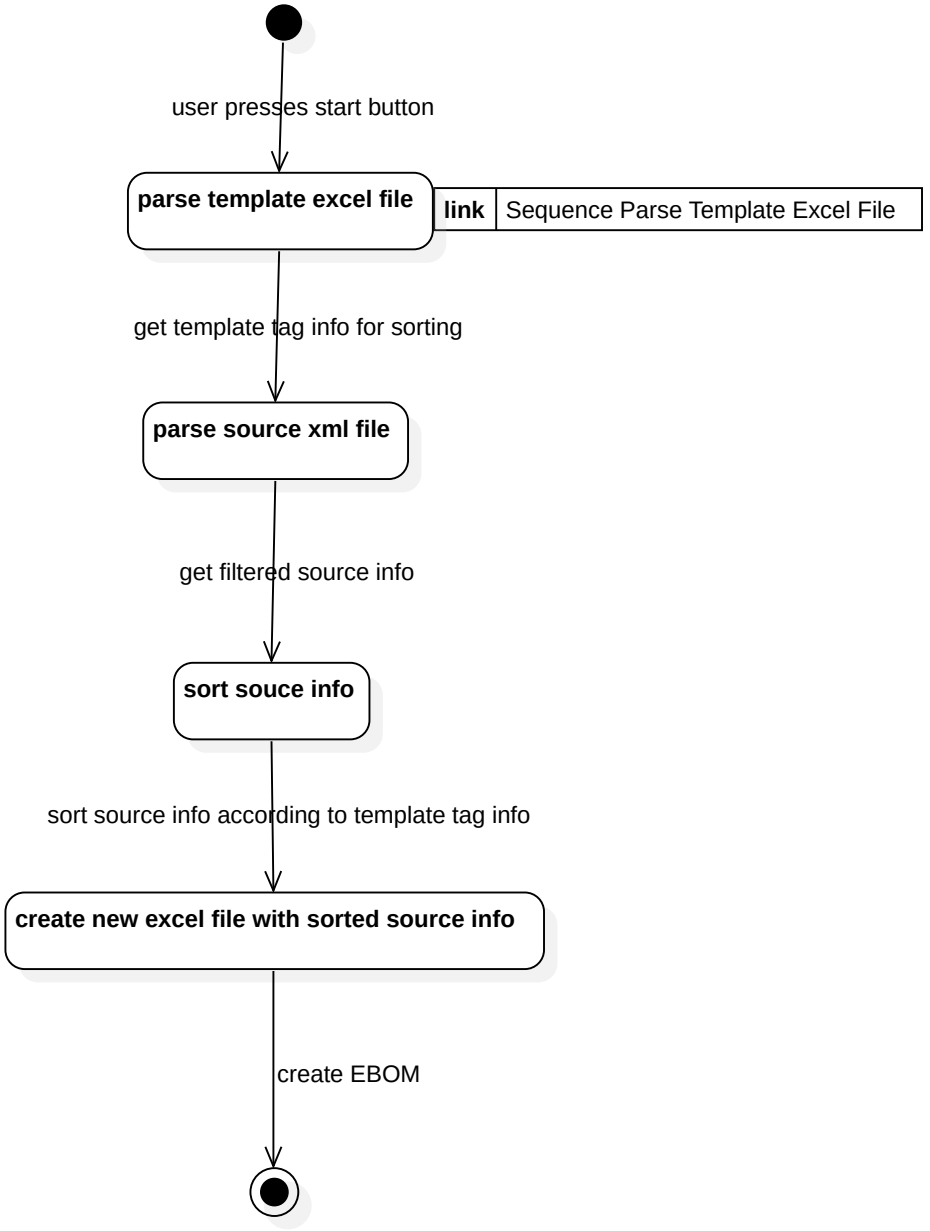
link	Activity mainFrame.start

link	Parse source .xml file

XMLfileHandler.XMLfileHandler



Activity Copy .xml source file into EBOM::Activity Copy .xml source file into EBOM



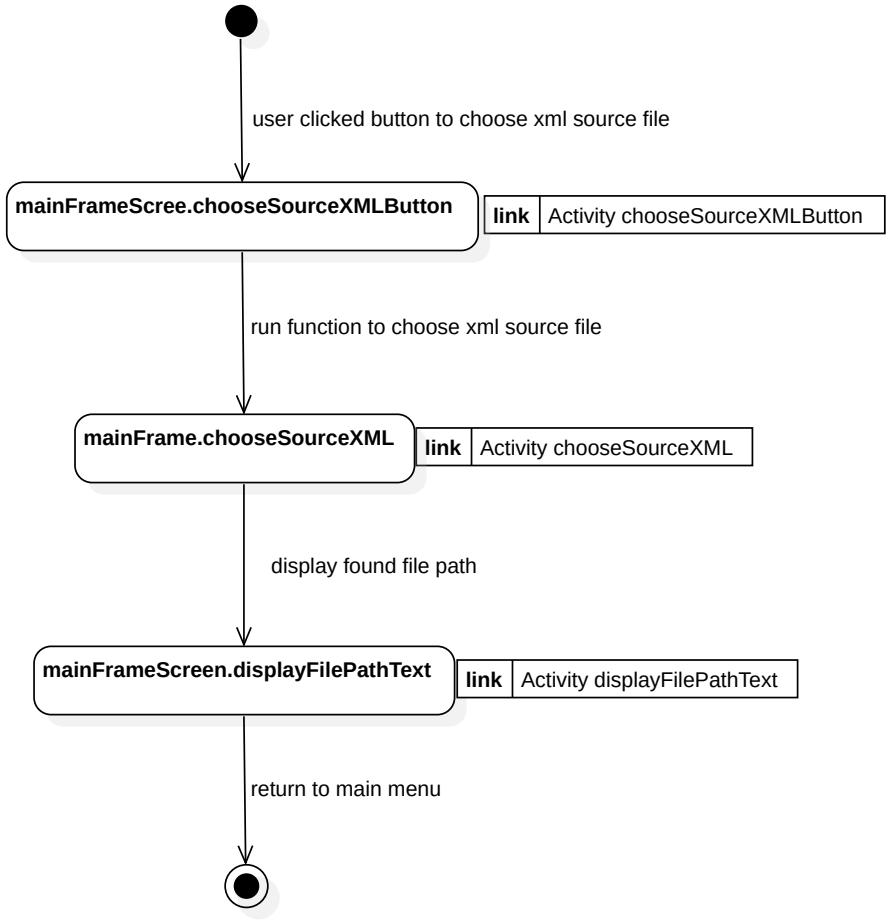
Activity Copy .xml source file into EBOM::ActivityDiagram1

ChooseSourceXML::Activity ChooseSourceXML

link	UseCaseDiagram

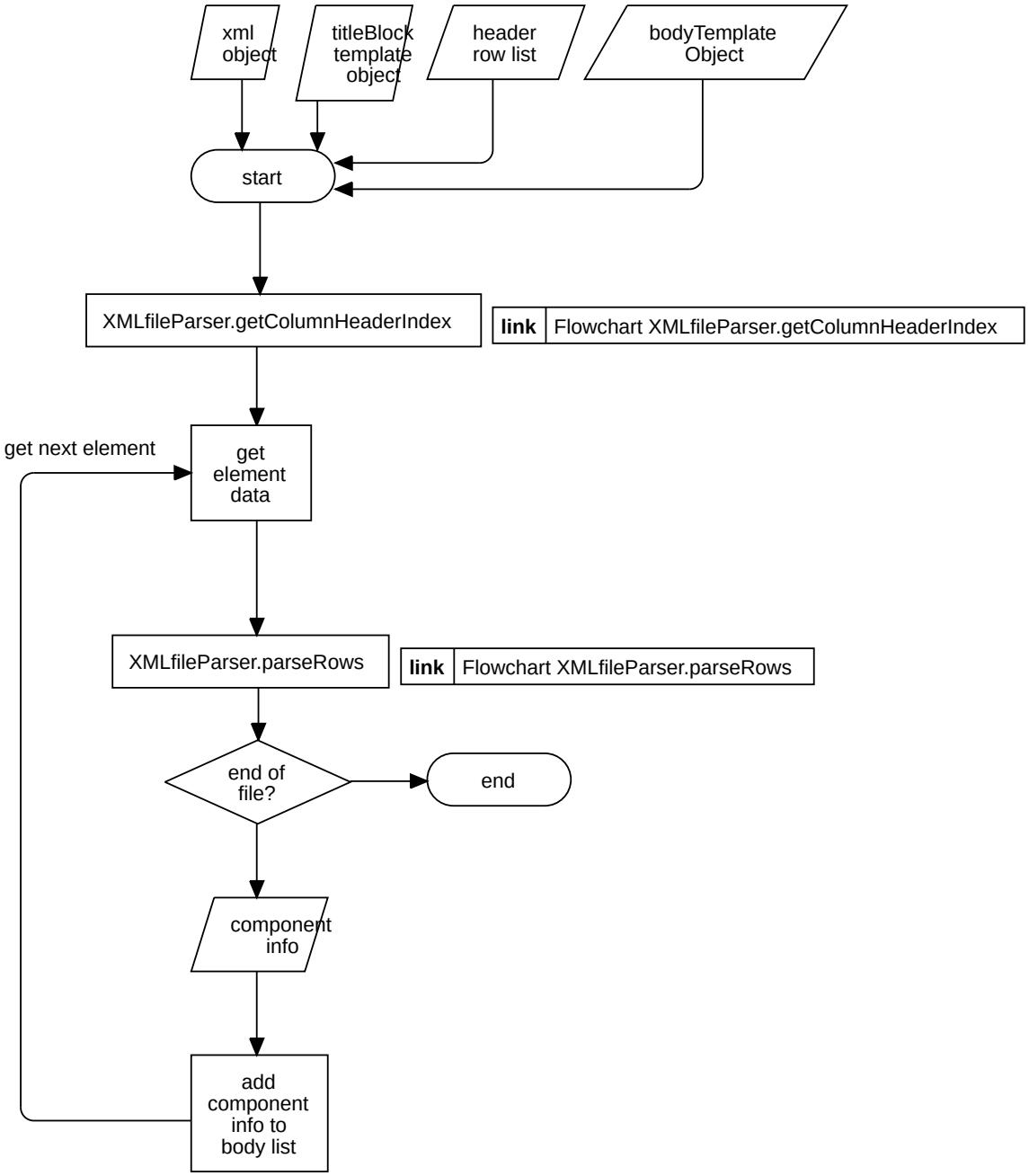
link	Sequence ChooseSourceXML

Text Use Case: choose source .xml file
Primary actor: user
Description:
0. User has started the program
1. User selects button to choose source xml
2. System opens file browser window
3. User selects source xml
4. System populates text box with selected file path.



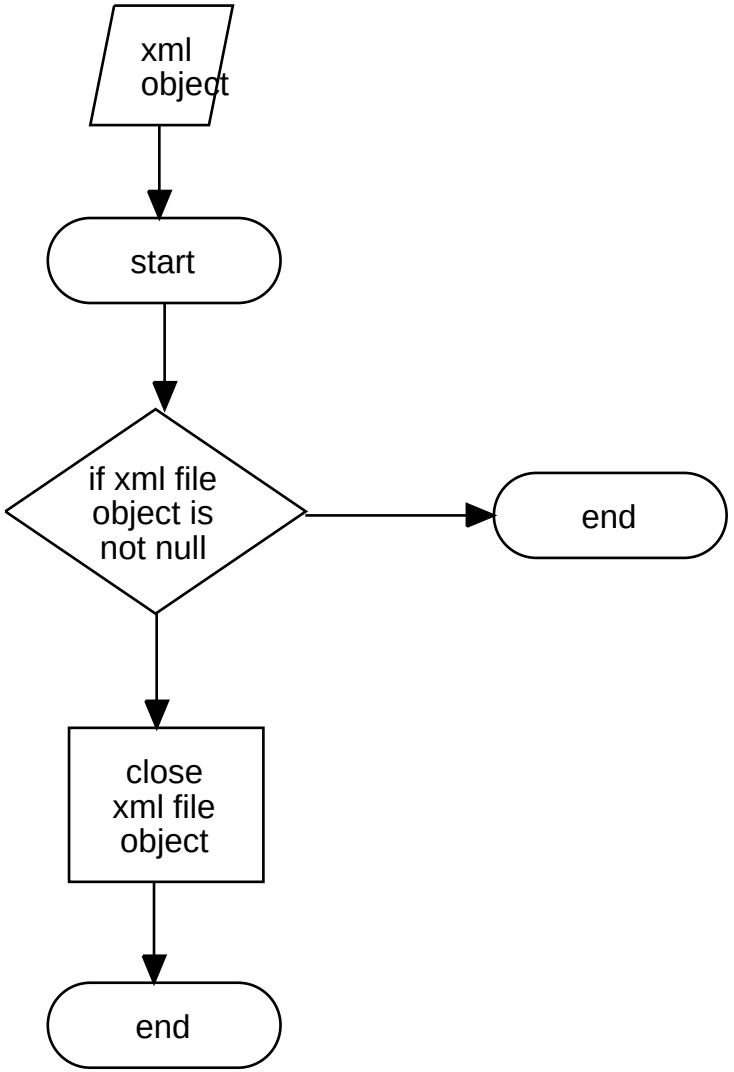
link	Flowchart XMLfileHandler.XMLfileHandler

XMLfileHandler.readFile



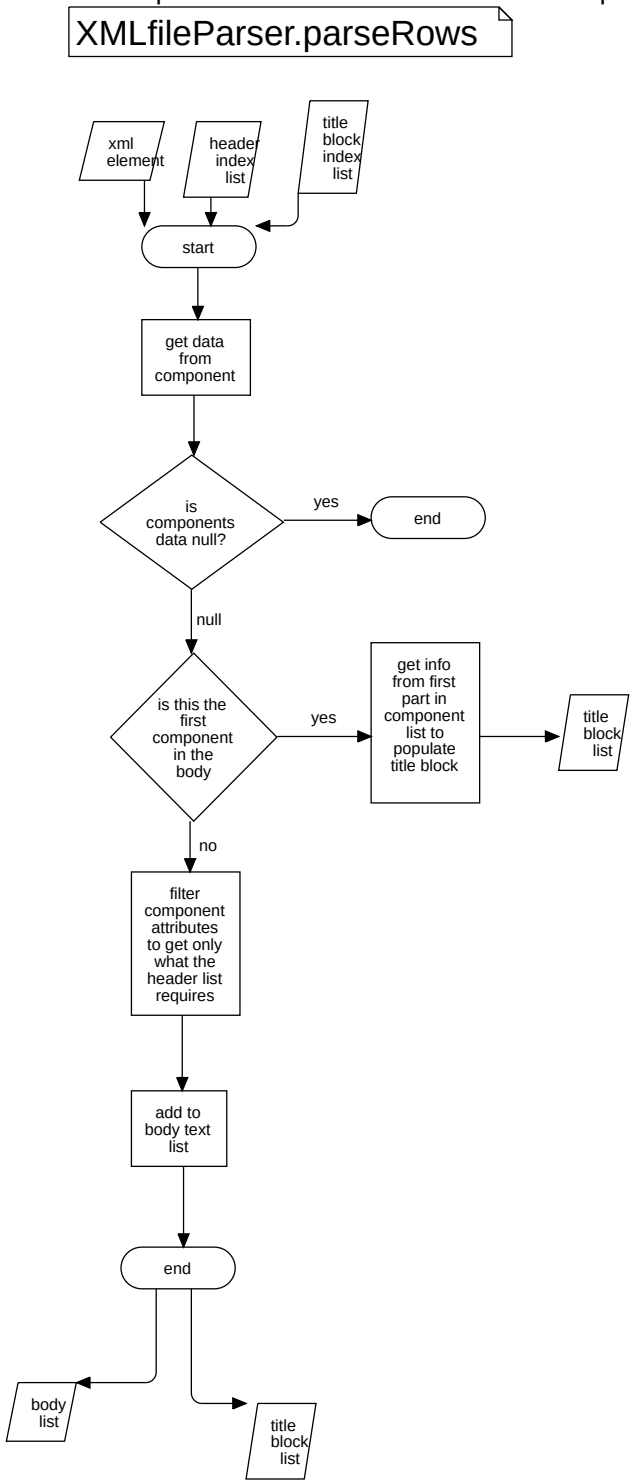
link	Flowchart XMLfileHandler.XMLfileHandler

XMLfileHandler.closeFile



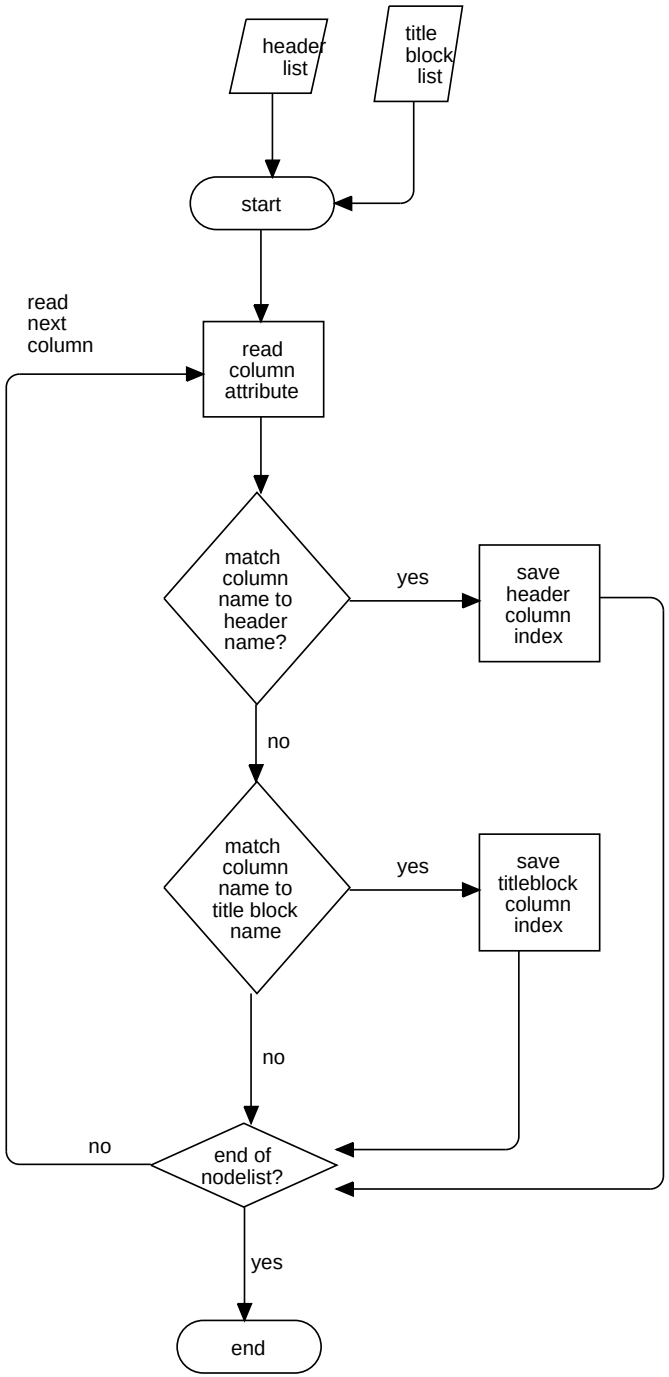
Class Diagram EBOM Creation Tool::XMLFileParser::parseRows::Flowchart XMLfileParser.parseRows::Flowchart XMLfileParser.parseRows

link	Flowchart XMLfileHandler.readFile



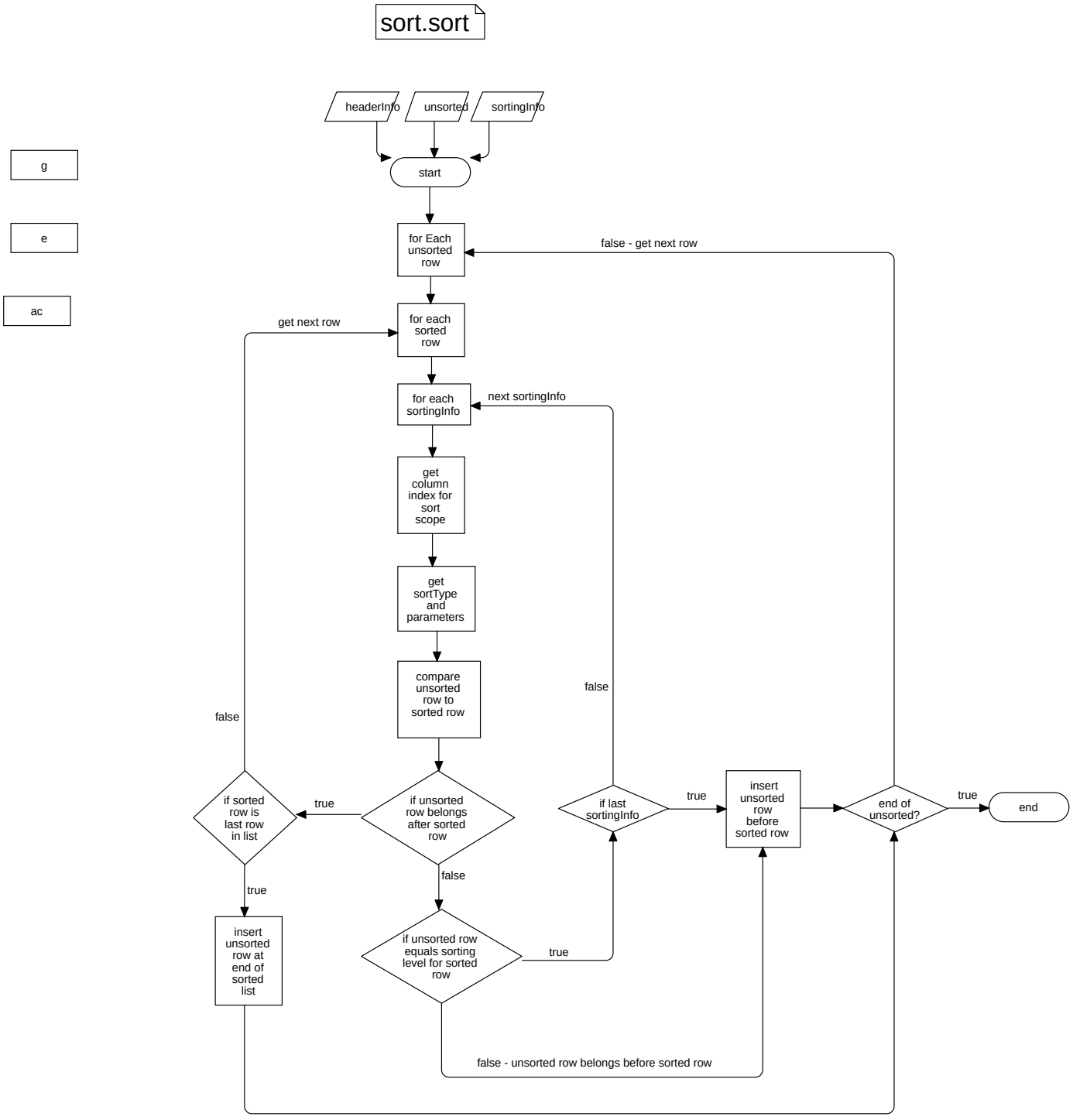
link Flowchart::XMLFileHandler::readFile

XMLfileParser.getColumnHeaderIndex



Class Diagram EBOM Creation Tool::sort::sort::Flowchart sort.sort::Flowchart sort.sort

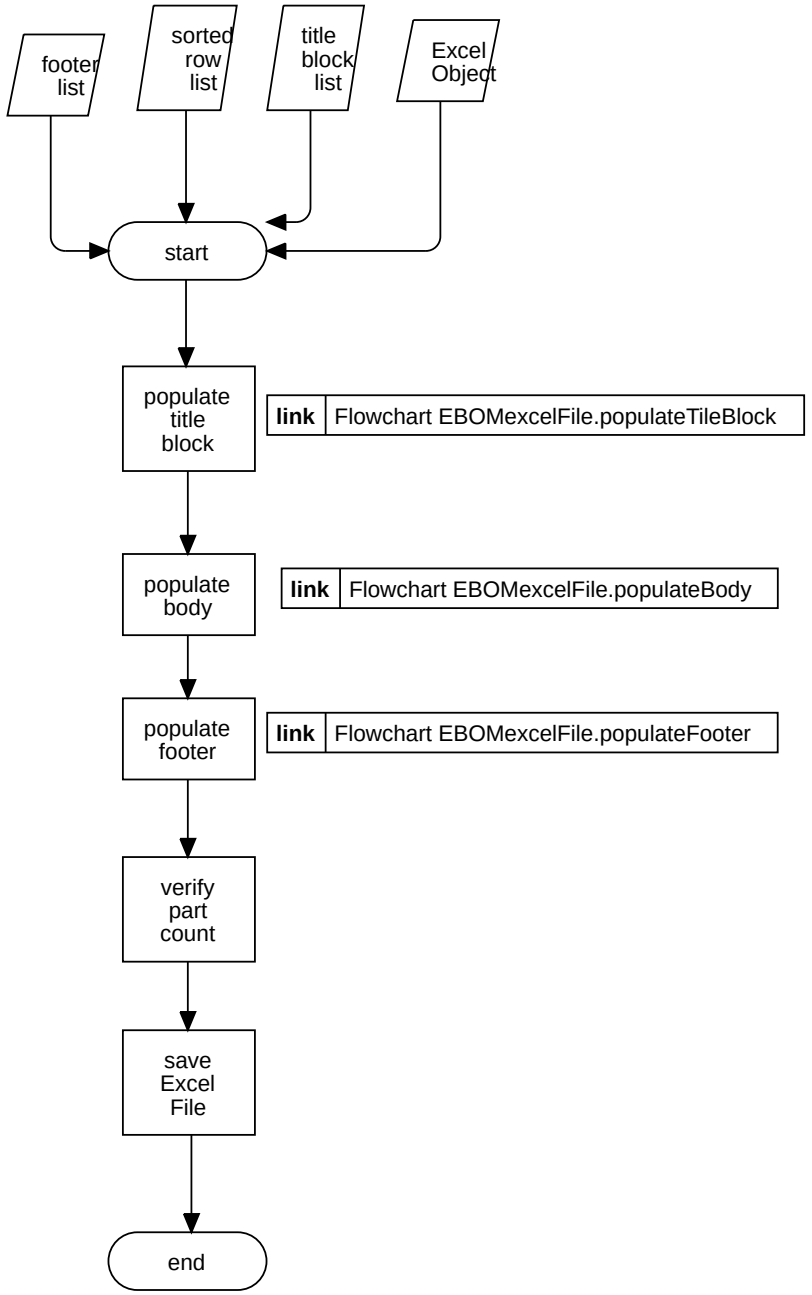
link	Activity mainFrame.start



Class Diagram EBOM Creation Tool::EBOMexcelFile::EBOMexcelFile::Flowchart EBOMexcelFile.EBOMexcelFile::Flowchart EBOMexcelFile.EBOMexcelFile

link	Activity.mainFrame.start

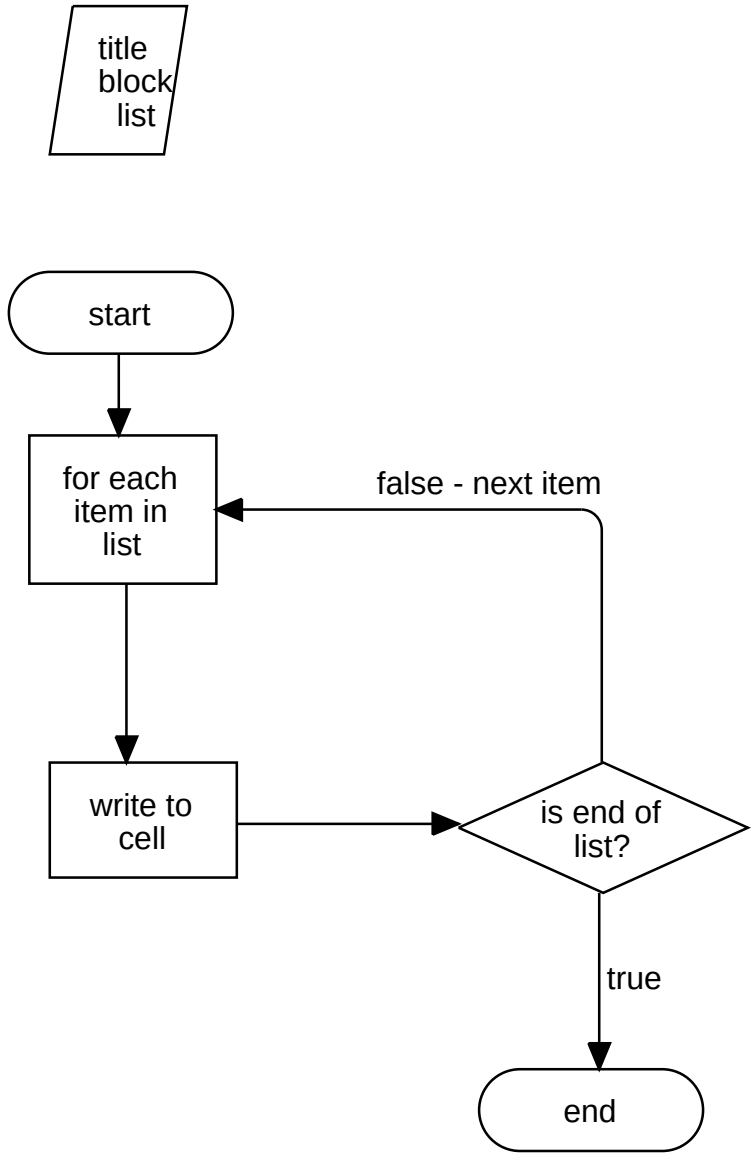
EBOMexcelFile.EBOMexcelFile



Class Diagram EBOM Creation Tool::EBOMexcelFile::populateTitleBlock::Flowchart EBOMexcelFile.populateTileBlock::Flowchart EBOMexcelFile.populateTileBlock

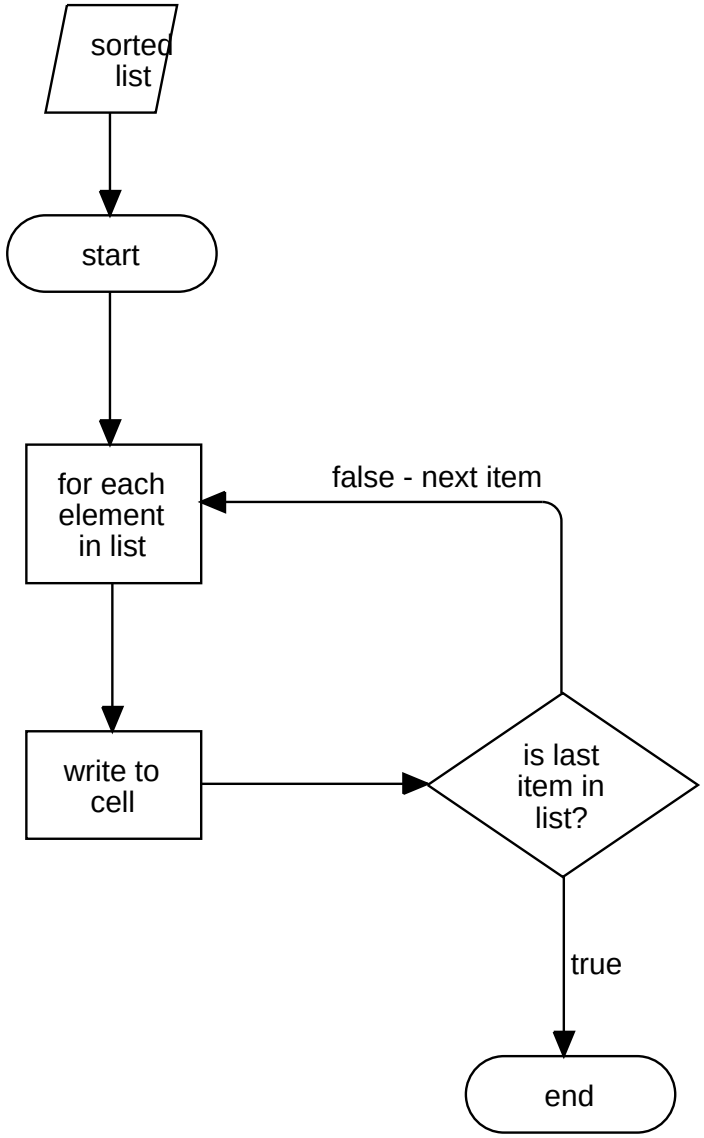
link	Flowchart EBOMexcelFile.EBOMexcelFile

EBOMexcelFile.populateTileBlock



link	Flowchart EBOMexcelFile.EBOMexcelFile

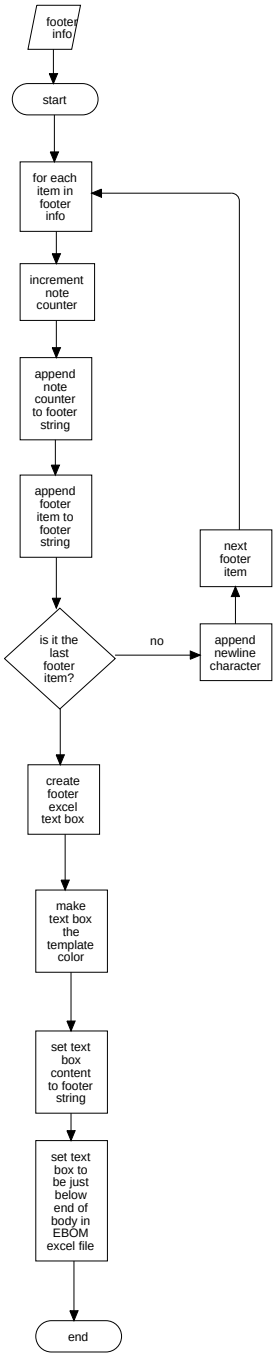
EBOMexcelFile.populateBody

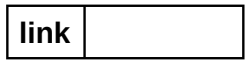


Class Diagram EBOM Creation Tool::EBOMexcelFile::populateFooter::Flowchart EBOMexcelFile.populateFooter::Flowchart EBOMexcelFile.populateFooter

link	Flowchart EBOMexcelFile.EBOMexcelFile

EBOMexcelFile.populateFooter




link


EBOMexcelFile.verifyParyCount