```
com.cmu.scotty.controller::PdfCreator
+RESULT = "src/Student_List2.pdf": String
+image = new ArrayList<String>(): ArrayList<String>
+program = new ArrayList<String>(): ArrayList<String>
+firstname = new ArrayList<String>(): ArrayList<String>
+lastname = new ArrayList<String>(): ArrayList<String>
+email = new ArrayList<String>(): ArrayList<String>
+time = new ArrayList<String>(): ArrayList<String>
+country = new ArrayList<String>(): ArrayList<String>
+intake = new ArrayList<String>(): ArrayList<String>
+LOGO = "lib/logo/logo.png": String
+UNAVAILABILE = "lib/logo/nopic.png": String
+TITLE = "Master of Information Systems Management Student List for F13 Semester (August 2013)": String
+document: Document
+PdfCreator(ArrayList<Student> s): ctor
+setExportLocation(String path): void
+setTitle(String t): void
+printTable3(): void
+printTablePreview(): void
+createThirdTable(): void
```

```
com.cmu.scotty.gui::MainWindow
-frame: JFrame
-jpStatic = new JPanel(): JPanel
-jpImport = new JPanel(): JPanel
-jpFilter = new JPanel(): JPanel
-jpExport = new JPanel(): JPanel
-jbtImport: JButton
-jbtExport: JButton
-ibtFilter: JButton
-jpImportExcel = new JPanel(): JPanel
-ipImportTxt = new JPanel(): JPanel
-jpImportImg = new JPanel(): JPanel
-lblImportExcel = new JLabel("Excel file*"): JLabel
-jtfExcelPath = new JTextField(): JTextField
-jbtBrowseExcel = new JButton("Browse"): JButton
 -importExcelFile = new File(""): File
-filterExcel = new FileNameExtensionFilter("Excel", "xls", "xlsx"): FileNameExtensio
 -ifcImportExcelFile = new JFileChooser(): JFileChooser
-lblImportTxt = new JLabel("Class Roster(.txt)"): JLabel
 -itfTxtPath = new JTextField(): JTextField
-jbtBrowseTxt = new JButton("Browse"): JButton
 -importTxtFile = new File(""): File
-filterTxt = new FileNameExtensionFilter("TXT", "txt"): FileNameExtensionFilter
-jfcImportTxtFile = new JFileChooser(): JFileChooser
-lblImportImg = new JLabel("Image folder*"): JLabel
 -jtfImgPath = new JTextField(): JTextField
-jbtBrowseImg = new JButton("Browse"): JButton
 -importImgFile = new File(""): File
-jfcImportImgFile = new JFileChooser(): JFileChooser
-jpImportNext = new JPanel(): JPanel
-jbtImportNext = new JButton("Next"): JButton
-button = new JButton("Next"): JButton
-jpPathExport = new JPanel(): JPanel
-lalPdfExport = new JLabel("Export Folder"): JLabel
-jtfPdfPath = new JTextField(): JTextField
-jbtPdfBrowse = new JButton("Browse"): JButton
-lalPdfName = new JLabel("File Name"): JLabel
-jtfFileName = new JTextField(): JTextField
-lal_pdf = new JLabel(".pdf"): JLabel
-jbtExportPdf = new JButton("Export Pdf File"): JButton
-exportPdfFile = new File(""): File
-jfcExportPdfFile = new JFileChooser(): JFileChooser
-jpPreviewExport = new JPanel(): JPanel
-jpPreviewWindow = new JPanel(): JPanel
-controller = new ScottyController(): ScottyController
-jpFilterList = new JPanel(): JPanel
-jpFilterCtrl = new JPanel(): JPanel
-lblNewLabel = new JLabel("Country:"): JLabel
-programSelector: JComboBox
-studentsList: JTable
-jtfpdfTitle: JTextField
-countrySelector: JComboBox
-dbColumns = new ArrayList<String>() {
    add("PROGRAMTRACK");
    add("COUNTRY");
 }: ArrayList<String>
 -filters = new ArrayList<String>() {
     add(null);
     add(null);
 }: ArrayList<String>
-studentsTable = new JTable(): JTable
-columnNames = new ArrayList(): ArrayList
-columnValues = new ArrayList(): ArrayList
-pdfCreator: PdfCreator
+MainWindow(): ctor
```

+main(String[] args): void

```
-fullTime: String
-country: String
-semester: String
-photoPath: String
+Student(String andrewID, String firstName, String lastName, String programTrack, String fullTime, String country, String semester, String photoPath): ctor
+Student(String andrewID): ctor
+Student(): ctor
+getAndrewID(): String
                                                                                                                                                                                                           com.cmu.scotty.persistence::StudentDao
+setAndrewID(String andrewID): void
                                                                                                                                                                            -dbURL = "jdbc:derby:scottyDB;create=true": String
+getFirstName(): String
                                                                                                                                                                             -tableName = "students": String
+setFirstName(String firstName): void
                                                                                                                                                                            -columnName = "andrewId": String
+getLastName(): String
                                                                                                                                                                             -conn = null: Connection
+setLastName(String lastName): void
                                                                                                                                                                            -stmt = null: Statement
+getProgramTrack(): String
                                                                                                                                                                            +createConnection(): Connection
+setProgramTrack(String programTrack): void
+getFullTime(): String
                                                                                                                                                                             +checkTable(): boolean
                                                                                                                                                                            +dropTable(): void
+setFullTime(String fullTime): void
                                                                                                                                                                            +createTable(): void
+getCountry(): String
                                                                                                                                                                            +insertStudents(ArrayList<Student> studentArr): void
+setCountry(String country): void
                                                                                                                                                                            +updateStudents(ArrayList<Student> studentArr): void
+getSemester(): String
                                                                                                                                                                            +insertStudent(Student student): void
+setSemester(String semester): void
                                                                                                                                                                            +updateStudent(Student student): void
+getPhotoPath(): String
                                                                                                                                                                            +selectStudents(ArrayList<String> andrewIds): ArrayList<Student>
+setPhotoPath(String photoPath): void
                                                                                                                                                                            +selectAllStudents(): ArrayList<Student>
+toString(): String
+toRow(): Object[]
                                                                                                                                                                            +selectStudent(String columnName, String columnValue): ArrayList<Student>
                                                                                                                                                                            +selectCountries(): ArrayList<String>
                                                                    +selectAndrewlds(): ArrayList<String>
                                                                                                                                                                            +selectStudent(ArrayList<String> columnNameArr, ArrayList<String> columnValueArr): ArrayList<Student>
                                            com.cmu.scotty.controller::ScottyController
                 +studentTable = "STUDENT": String
                 +studentDao = new StudentDao(): StudentDao
                 +readExcel = new ReadExcel(): ReadExcel
                +readText = new ReadText(): ReadText
                +imgPath: String
                 +getImgPath(): String
                +setImgPath(String imgPath): void
                 +readExcel(String excelPath): void
                 +fetchStuNotPresentInDb(ArrayList<Student> studentsNotInDb): ArrayList<Student>
                 +insertText(String textPath): void
                 +readText(String textPath): ArrayList<Student>
                                                                                                                                                                                                   com.cmu.scotty.exception::ArrayListDoesNotMatch
                 +selectStudent(String columnName, String columnValue): ArrayList<Student>
                 +selectStudent(ArrayList<String> columnNames, ArrayList<String> columnValues): ArrayList<Student>
                                                                                                                                                                                                   +getMessage(): String
                 +selectStudentOnAndrewIds(ArrayList<String> andrewIds): ArrayList<Student>
                                                                                                                                         com.cmu.scotty.controller::ReadText
                 +selectAndrewIds(): ArrayList<String>
                 +selectCountries(): ArrayList<String>
                                                                                                                                       +read(String inputtext): ArrayList<Student>
                 +selectStudent(): ArrayList<Student>
                                                                                                                                                                                          com.cmu.scotty.exception::WrongTextException
                                                                                                                                                                                          +getMessage(): String
                                           com.cmu.scotty.controller::ReadExcel
                                                                                                            com.cmu.scotty.controller::ReadPhoto
                                         +read(String inputexcel): ArrayList<Student>
                                                                                                            +readPhoto(String inputphotos): String
                                                                                                             com.cmu.scotty.exception::WrongPhotoException
                       com.cmu.scotty.exception::WrongExcelException
                                                                                                             +getMessage(): String
                       +getMessage(): String
```

com.cmu.scotty.model::Student

-andrewID: String

-firstName: String

-lastName: String

-programTrack: String