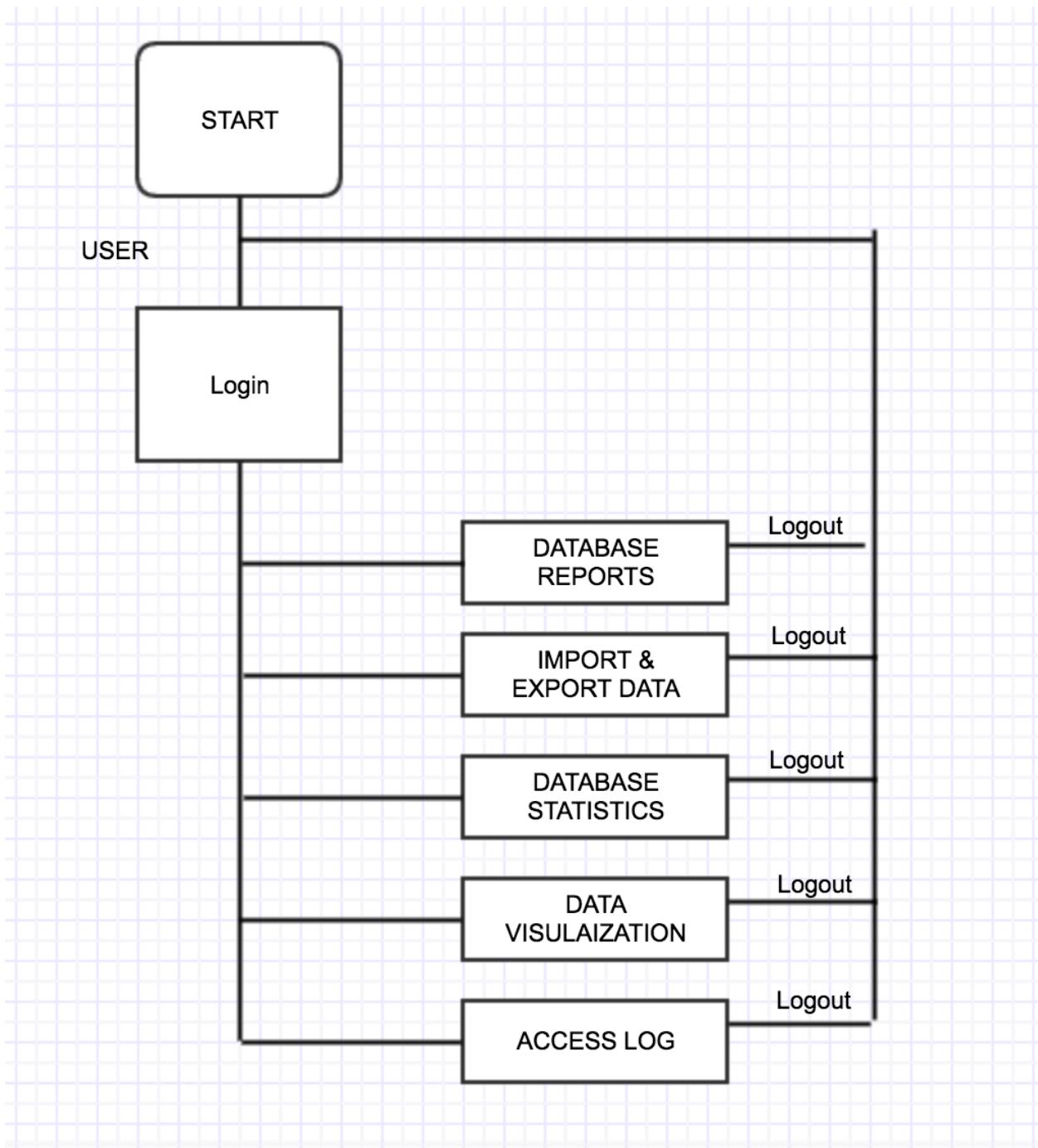


PROGRAMMER'S GUIDE

DATA FLOW DIAGRAM



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Password*:

Host*:

RDBMS*:

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city	Select Source Value	Select Destination Value
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Database Visualizations JSP Page

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Select Chart Type	city country countrylanguage	SurfaceArea IndepYear Population LifeExpectancy GNP
Pie Chart		
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Scatterplot w Regression Line		

Transaction Log JSP Page

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AccessLogBean Java Class

```
uic.edu.ids517.s17g310
AccessLogBean
    loginBean : LoginBean
    resultSet : ResultSet
    message : String
    currUser : String
    password : String
    ipAddr : String
    sessionID : String
    loginT : Date
    loginTStr : String
    logoutT : Date
    logoutTStr : String
    printLog : boolean
    printMessage : boolean
    tableList : List<String>
    lastRowID : int
    dbSchema : String
    S F USERNAME : String
    S F PASSWORD : String
    AccessLogBean()
    createLog() : boolean
    connectLog() : boolean
    connect2() : void
    getLog() : String
    logout() : boolean
    getLoginBean() : LoginBean
    setLoginBean(LoginBean) : void
    getMessage() : String
    setMessage(String) : void
    getResultSet() : ResultSet
    setResultSet(ResultSet) : void
    getTableList() : List<String>
    setTableList(List<String>) : void
    getCurrUser() : String
    setCurrUser(String) : void
    getPassword() : String
    setPassword(String) : void
    getLoginT() : Date
    setLoginT(Date) : void
    getIpAddr() : String

    setIpAddr(String) : void
    getSessionID() : String
    setSessionID(String) : void
    getLoginTStr() : String
    setLoginTStr(String) : void
    isPrintLog() : boolean
    setPrintLog(boolean) : void
    isPrintMessage() : boolean
    setPrintMessage(boolean) : void
    getLastRowID() : int
    setLastRowID(int) : void
    getDbSchema() : String
    setDbSchema(String) : void
    getLogoutT() : Date
    setLogoutT(Date) : void
    getLogoutTStr() : String
    setLogoutTStr(String) : void
```

ActionLoginBean Java Class

The screenshot shows a software interface for viewing Java class hierarchies. At the top, there's a header bar with a file icon and the text "uic.edu.ids517.s17g310". Below this is a tree view of a class structure. The root node is "ActionLoginBean", indicated by a green downward arrow icon. The tree structure is as follows:

- uic.edu.ids517.s17g310
- └ ActionLoginBean
 - loginBean : LoginBean
 - dbFunc : DbFunc
 - accessLogBean : AccessLogBean
 - message : String
 - ActionLoginBean() : Constructor
 - login() : String
 - logout() : String
 - getLoginBean() : LoginBean
 - setLoginBean(LoginBean) : void
 - getDbFunc() : DbFunc
 - setDbFunc(DbFunc) : void
 - getAccessLogBean() : AccessLogBean
 - setAccessLogBean(AccessLogBean) : void
 - getMessage() : String
 - setMessage(String) : void

ComputeBean Java Class

uic.edu.ids517.s17g310	setDestinationValue(String) : void
▼ C ComputeBean	isPrintColumn() : boolean
▫ columnNum : int	setPrintColumn(boolean) : void
▫ message : String	isPrintMessage() : boolean
▫ selectedTable : String	setPrintMessage(boolean) : void
▫ sourceValue : String	isPrintTabledata() : boolean
▫ destinationValue : String	setPrintTabledata(boolean) : void
▫ printColumn : boolean	isPrintTablename() : boolean
▫ printMessage : boolean	setPrintTablename(boolean) : void
▫ printTabledata : boolean	isPrintComputeColumn() : boolean
▫ printTablename : boolean	setPrintComputeColumn(boolean) : void
▫ printComputeColumn : boolean	isPrintComputeButton() : boolean
▫ printComputeButton : boolean	setPrintComputeButton(boolean) : void
▫ numData : List<String>	getResultSetMetaData() : ResultSetMetaData
▫ nominalData : List<String>	setResultSetMetaData(ResultSetMetaData) : void
▫ resultSetMetaData : ResultSetMetaData	getSelectedColumn() : List<String>
▫ selectedColumn : List<String>	setSelectedColumn(List<String>) : void
▫ columnList : List<String>	getColumnList() : List<String>
▫ tableList : List<String>	setColumnList(List<String>) : void
▫ columns : List<String>	getTableList() : List<String>
▫ list : List<String>	setTableList(List<String>) : void
▫ result : Result	getColumns() : List<String>
▫ resultSet : ResultSet	setColumns(List<String>) : void
▫ loginBean : LoginBean	getList() : List<String>
▫ metaData : DatabaseMetaData	setList(List<String>) : void
C ComputeBean()	getResult() : Result
● restore() : void	setResult(Result) : void
● getTables() : String	getResultSet() : ResultSet
● getColumnNames() : String	setResultSet(ResultSet) : void
● computeValues() : boolean	getLoginBean() : LoginBean
● printComputeValues() : String	setLoginBean(LoginBean) : void
● printTableList() : void	getMetaData() : DatabaseMetaData
● getColumnNum() : int	setMetaData(DatabaseMetaData) : void
● setColumnNum(int) : void	getNumData() : List<String>
● getMessage() : String	setNumData(List<String>) : void
● setMessage(String) : void	getNominalData() : List<String>
● getSelectedTable() : String	setNominalData(List<String>) : void
● setSelectedTable(String) : void	
● getSourceValue() : String	
● setSourceValue(String) : void	
● getDestinationValue() : String	

DbFunc Java Class

```
uic.edu.ids517.s17g310
DbFunc
  TABLE_TYPES : String[]
  loginBean : LoginBean
  tableList : List<String>
  selectedCol : List<String>
  columnList : List<String>
  column : List<String>
  resultSetMetaData : ResultSetMetaData
  resultSet : ResultSet
  message : String
  selectedTable : String
  usersql : String
  renderMessage : Boolean
  printTablename : Boolean
  printTabledata : Boolean
  printColumn : Boolean
  result : Result
  rownum : int
  columnnum : int
  DbFunc()
  restore() : void
  renderTableList() : void
  quickCreate() : String
  getTables() : String
  getColNames() : String
  getTablesData() : String
  getColData() : String
  processQuery() : String
  dropTable() : String
  generateMetaData() : void
  getTableList() : List<String>
  setTableList(List<String>) : void
  getColumnList() : List<String>
  setColumnList(List<String>) : void
  getColumn() : List<String>
  setColumn(List<String>) : void
  getResultSet() : ResultSet
  setResultSet(ResultSet) : void
  getMessage() : String
  setMessage(String) : void
  getRenderMessage() : Boolean
  setRenderMessage(Boolean) : void
  getprintTablename() : Boolean
  setprintTablename(Boolean) : void
  getSelectedTable() : String
  setSelectedTable(String) : void
  getSelectedCol() : List<String>
  setSelectedCol(List<String>) : void
  getUsersql() : String
  setUsersql(String) : void
  getLoginBean() : LoginBean
  setLoginBean(LoginBean) : void
  getResult() : Result
  setResult(Result) : void
  getPrintTabledata() : Boolean
  setPrintTabledata(Boolean) : void
  getRownum() : int
  setRownum(int) : void
  getColumnnum() : int
  setColumnnum(int) : void
  getPrintColumn() : Boolean
  setPrintColumn(Boolean) : void
```

DescrStatsBean Java Class

▼  DescrStatsBean

 `serialVersionUID` : long

 `selectedColumn` : String

 `minValue` : double

 `maxValue` : double

 `mean` : double

 `variance` : double

 `std` : double

 `median` : double

 `q1` : double

 `q3` : double

 `iqr` : double

 `range` : double

 `numObs` : int

 `DescrStatsBean()`

 `DescrStatsBean(String, double, double, double, double, double, double, double, double, double, int)`

 `setGraphVar(double, double, double)` : void

 `getSelectedColumn()` : String

 `setSelectedColumn(String)` : void

 `getSerialversionuid()` : long

 `getMinValue()` : double

 `setMinValue(double)` : void

 `getMaxValue()` : double

 `setMaxValue(double)` : void

 `getMean()` : double

 `setMean(double)` : void

 `getVariance()` : double

 `setVariance(double)` : void

 `getStd()` : double

 `setStd(double)` : void

 `getMedian()` : double

 `setMedian(double)` : void

 `getQ1()` : double

 `setQ1(double)` : void

 `getQ3()` : double

 `setQ3(double)` : void

 `getIqr()` : double

 `setIqr(double)` : void

 `getRange()` : double

 `setRange(double)` : void

 `getNumObs()` : int

 `setNumObs(int)` : void

FileImportBean Java Class

```
uic.edu.ids517.s17g310
FileImportBean
    □ uploadedFile : UploadedFile
    □ $ uploadedFileForAfterRollBack : UploadedFile
    □ fileLabel_s17g310 : String
    □ fileName : String
    □ fileSize : long
    □ fileContentType310 : String
    □ numberOfRows : int
    □ numberOfColumns : int
    □ uploadedFileContents : String
    □ fileImport : boolean
    □ fileImportErrorCheck : boolean
    □ fileImportWithoutRollBacks : boolean
    □ filePath_s17g310 : String
    □ tempFileName : String
    □ facesContext : FacesContext
    □ datasetLabel_s17g310 : String
    □ fileType : String
    □ fileFormat : String
    □ fileheaderRowFormat : String
    □ relativeURL : String
    □ loginBean : LoginBean
    □ tableList : List<String>
    □ tableList1 : String
    □ resultSet : ResultSet
    □ selectedTable : String
    □ importCount : int
    □ isFileImportWithoutRollBacks() : boolean
    □ setFileImportWithoutRollBacks(boolean) : void
    □ isFileImportInfoMsgFlag() : boolean
    □ setFileImportInfoMsgFlag(boolean) : void
    □ isFileImportErrorMsgFlag() : boolean
    □ setFileImportErrorMsgFlag(boolean) : void
    □ getFileImportInfoMsg() : String
    □ setFileImportInfoMsg(String) : void
    □ getFileImportErrorMsg() : String
    □ setFileImportErrorMsg(String) : void
    □ fileImportInfoMsgFlag : boolean
    □ fileImportErrorMsgFlag : boolean
    □ fileImportInfoMsg : String
    □ fileImportErrorMsg : String
    ● getSelectedTable() : String
    ● setSelectedTable(String) : void
    ● getLoginBean() : LoginBean
    ● setLoginBean(LoginBean) : void
    ● init() : void
    ● processFileUploadWithRollBack() : String
    ● processFileUpload() : String
    ● createTable(String, ArrayList<String[]>) : boolean
    ● addValuestoTable(ArrayList<String[]>) : List<Integer>
    ● addTabletoSchema(ArrayList<String[]>) : void
    ● insertIntoTable(String, ArrayList<String[]>) : boolean
    ● getTablesExport() : String
    ● exportToXML() : String
    ● getUploadedFile() : UploadedFile
    ● setUploadedFile(UploadedFile) : void
    ● getFileLabel() : String
    ● setFileLabel(String) : void
    ● getFileName() : String
    ● setFileName(String) : void
    ● getFileSize() : long
    ● getRelativeURL() : String
    ● setFileSize(long) : void
    ● getFileContentType() : String
    ● setFileType(String) : void
    ● getNumberRows() : int
    ● setNumberRows(int) : void
    ● getNumberColumns() : int
    ● setNumberColumns(int) : void
    ● getUploadedFileContents() : String
    ● setUploadedFileContents(String) : void
    ● isFileImport() : boolean
    ● setFileImport(boolean) : void
    ● setRelativeURL(String) : void
    ● isFileImportError() : boolean
    ● setFileImportError(boolean) : void
    ● getPath() : String
    ● setPath(String) : void
    ● getTempFileName() : String
    ● setTempFileName(String) : void
    ● getFacesContext() : FacesContext
    ● setFacesContext(FacesContext) : void
    ● getDatasetLabel() : String
```

- `setDatasetLabel(String) : void`
- `getFileType() : String`
- `setFileType(String) : void`
- `getFileFormat() : String`
- `setFileFormat(String) : void`
- `getFileheaderRowFormat() : String`
- `setFileheaderRowFormat(String) : void`
- `getTableList() : List<String>`
- `setTableList(List<String>) : void`
- `getTableList1() : String`
- `setTableList1(String) : void`
- `getResultSet() : ResultSet`

GraphAnalysisBean Java Class

uic.edu.ids517.s17g310	
▼	GraphAnalysisBean
□	selectedTable : String
□	message : String
□	printMessage : boolean
□	printChartType : boolean
□	chartSelectedCol : String
□	printChartCol : boolean
□	printXYGraphCol : boolean
□	predValue : String
□	respValue : String
□	statsBean : StatsBean
□	chartType : String
□	printRegCol : boolean
□	printTables : boolean
□	printGraphButton : boolean
□	schema : String
□	graphVisData : GraphVisData
□	piePath : String
□	loginBean : LoginBean
□	printPie : boolean
□	printBar : boolean
□	xySeriesChart : boolean
□	xySeriesRegChart : boolean
□	xyPath : String
□	barPath : String
□	xyRegPath : String
●	GraphAnalysisBean()
●	tableChangeVal(ValueChangeEvent) : void
●	createChart() : String
●	changeChartVal(ValueChangeEvent) : void
●	restore() : void
●	getSelectedTable() : String
●	setSelectedTable(String) : void
●	getMessage() : String
●	setMessage(String) : void
●	isPrintMessage() : boolean
●	setPrintMessage(boolean) : void
●	isPrintChartType() : boolean
●	setPrintChartType(boolean) : void
●	getChartSelectedCol() : String
●	setChartSelectedCol(String) : void
●	isPrintChartCol() : boolean
●	setPrintChartCol(boolean) : void
●	isPrintXYGraphCol() : boolean
●	setPrintXYGraphCol(boolean) : void
●	getPredValue() : String
●	setPredValue(String) : void
●	getRespValue() : String
●	setRespValue(String) : void
●	getStatsBean() : StatsBean
●	setStatsBean(StatsBean) : void
●	getChartType() : String
●	setChartType(String) : void
●	isPrintRegCol() : boolean
●	setPrintRegCol(boolean) : void
●	isPrintTables() : boolean
●	setPrintTables(boolean) : void
●	isPrintGraphButton() : boolean
●	setPrintGraphButton(boolean) : void
●	getSchema() : String
●	setSchema(String) : void
●	getGraphVisData() : GraphVisData
●	setGraphVisData(GraphVisData) : void
●	getPiePath() : String
●	setPiePath(String) : void
●	getLoginBean() : LoginBean
●	setLoginBean(LoginBean) : void
●	isPrintPie() : boolean
●	setPrintPie(boolean) : void
●	isPrintBar() : boolean
●	setPrintBar(boolean) : void
●	isXySeriesChart() : boolean
●	setXySeriesChart(boolean) : void
●	getXyPath() : String
●	setXyPath(String) : void
●	getBarPath() : String
●	setBarPath(String) : void
●	getXyRegPath() : String
●	setXyRegPath(String) : void
●	isXySeriesRegChart() : boolean
●	setXySeriesRegChart(boolean) : void

GraphVisData Java Class

```
uic.edu.ids517.s17g310
▼ C GraphVisData
  □ loginBean : LoginBean
  □ resultSet : ResultSet
  □ result : Result
  □ dataset : DefaultCategoryDataset
  □ descrStatsBean : DescrStatsBean
  □ pieModel : DefaultPieDataset
  □ printErrorMessage : boolean
  □ printPie : boolean
  □ data : XYDataset
  □ resultSetMD : ResultSetMetaData
  □ errorMessage : String
  □ pieGraph : JFreeChart
  ● C GraphVisData()
  ● createChart(String, String) : boolean
  ● getPieGraph() : JFreeChart
  ● setPieChart(JFreeChart) : void
  ● getResult() : Result
  ● setResult(Result) : void
  ● getLoginBean() : LoginBean
  ● setLoginBean(LoginBean) : void
  ● getResultSet() : ResultSet
  ● setResultSet(ResultSet) : void
  ● getPieModel() : DefaultPieDataset
  ● setPieModel(DefaultPieDataset) : void
  ● getResultSetMD() : ResultSetMetaData
  ● setResultSetMD(ResultSetMetaData) : void
  ● getErrorMessage() : String
  ● setErrorMessage(String) : void
  ● isPrintErrorMessage() : boolean
  ● setPrintErrorMessage(boolean) : void
  ● isPrintPie() : boolean
  ● setPrintPie(boolean) : void
  ● getData() : XYDataset
  ● setData(XYDataset) : void
  ● getDataset() : DefaultCategoryDataset
  ● setDataset(DefaultCategoryDataset) : void
  ● getDescrStatsBean() : DescrStatsBean
  ● setDescrStatsBean(DescrStatsBean) : void
```

LoginBean Java Class

```
uic.edu.ids517.s17g310
LoginBean
  □ userName : String
  □ password : String
  □ host : String
  □ rdbms : String
  □ dbSchema : String
  □ message : String
  □ printMessage : Boolean
  □ jdbcDriver : String
  □ url : String
  □ connection : Connection
  □ stmt : Statement
  □ resultSet : ResultSet
  □ resultSetMetaData : ResultSetMetaData
  □ databaseMetaData : DatabaseMetaData
  □ rowNum : int
  □ colNum : int
  $ thisBean : LoginBean
  C LoginBean()
  ● connect() : String
  ● processSelect(String) : ResultSet
  ● processUpdate(String) : int
  A addValuestoTable(ArrayList<String[]>, String, Boolean) : List<Object>
  A multipleQueryList(String) : List<String>
  ● getTables() : ResultSet
  ● getColNames(String) : ResultSet
  ● closeConn() : void
  ● enterLog(String, String, String, String) : int
  ● updateLog(String, String, int) : int
  ● getUserName() : String
  ● setUserName(String) : void
  ● getPassword() : String
  ● setPassword(String) : void
  ● getHost() : String
  ● setHost(String) : void
  ● getRdbms() : String
  ● setRdbms(String) : void
  ● getDbSchema() : String
  ● setDbSchema(String) : void
  ● getMessage() : String
  ● getprintMessage() : Boolean
  □ getPrintMessage() : Boolean
  ● getStmt() : Statement
  ● getResultset() : ResultSet
  ● getResultsetMetaData() : ResultSetMetaData
  ● getDatabaseMetaData() : DatabaseMetaData
  ● getRowNum() : int
  ● setRowNum(int) : void
  ● getConnection() : Connection
  ● setConnection(Connection) : void
  ● getColNum() : int
  ● setColNum(int) : void
```

RegressionAnalysisBean Java Class

```
uic.edu.ids517.s17g310
▼ C RegressionAnalysisBean
  □ message : String
  □ regressionEq : String
  □ intercept : double
  □ interceptStdErr : double
  □ tStat : double
  □ interceptPVal : double
  □ slope : double
  □ predDF : double
  □ residualErrDF : double
  □ totalDF : double
  □ regressionSumSq : double
  □ sumSqErr : double
  □ totalSumSq : double
  □ meanSq : double
  □ meanSqErr : double
  □ fVal : double
  □ pVal : double
  □ slopeStdErr : double
  □ tStatPred : double
  □ pValPred : double
  □ stdErrModel : double
  □ rSq : double
  □ adjustedRsq : double
  C RegressionAnalysisBean()
  ● setRegressionAnalysisVariables(String, double, double, d
  ● getMessage() : String
  ● setMessage(String) : void
  ● getRegressionEq() : String
  ● setRegressionEq(String) : void
  ● getIntercept() : double
  ● setIntercept(double) : void
  ● getInterceptStdErr() : double
  ● setInterceptStdErr(double) : void
  ● getStat() : double
  ● setStat(double) : void
  ● getInterceptPVal() : double
  ● setInterceptPVal(double) : void
  ● getSlope() : double
  ● setSlope(double) : void
  ● getPredDF() : double
  ● setPredDF(double) : void
  ● getResidualErrDF() : double
  ● setResidualErrDF(double) : void
  ● getTotalDF() : double
  ● setTotalDF(double) : void
  ● getRegressionSumSq() : double
  ● setRegressionSumSq(double) : void
  ● getSumSqErr() : double
  ● setSumSqErr(double) : void
  ● getTotalSumSq() : double
  ● setTotalSumSq(double) : void
  ● getMeanSq() : double
  ● setMeanSq(double) : void
  ● getMeanSqErr() : double
  ● setMeanSqErr(double) : void
  ● getfVal() : double
  ● setfVal(double) : void
  ● getpVal() : double
  ● setpVal(double) : void
  ● getSlopeStdErr() : double
  ● setSlopeStdErr(double) : void
  ● gettStatPred() : double
  ● settStatPred(double) : void
  ● getpValPred() : double
  ● setpValPred(double) : void
  ● getStdErrModel() : double
  ● setStdErrModel(double) : void
  ● getrSq() : double
  ● setrSq(double) : void
  ● getAdjustedRsq() : double
  ● setAdjustedRsq(double) : void
```

StatsBean Java Class

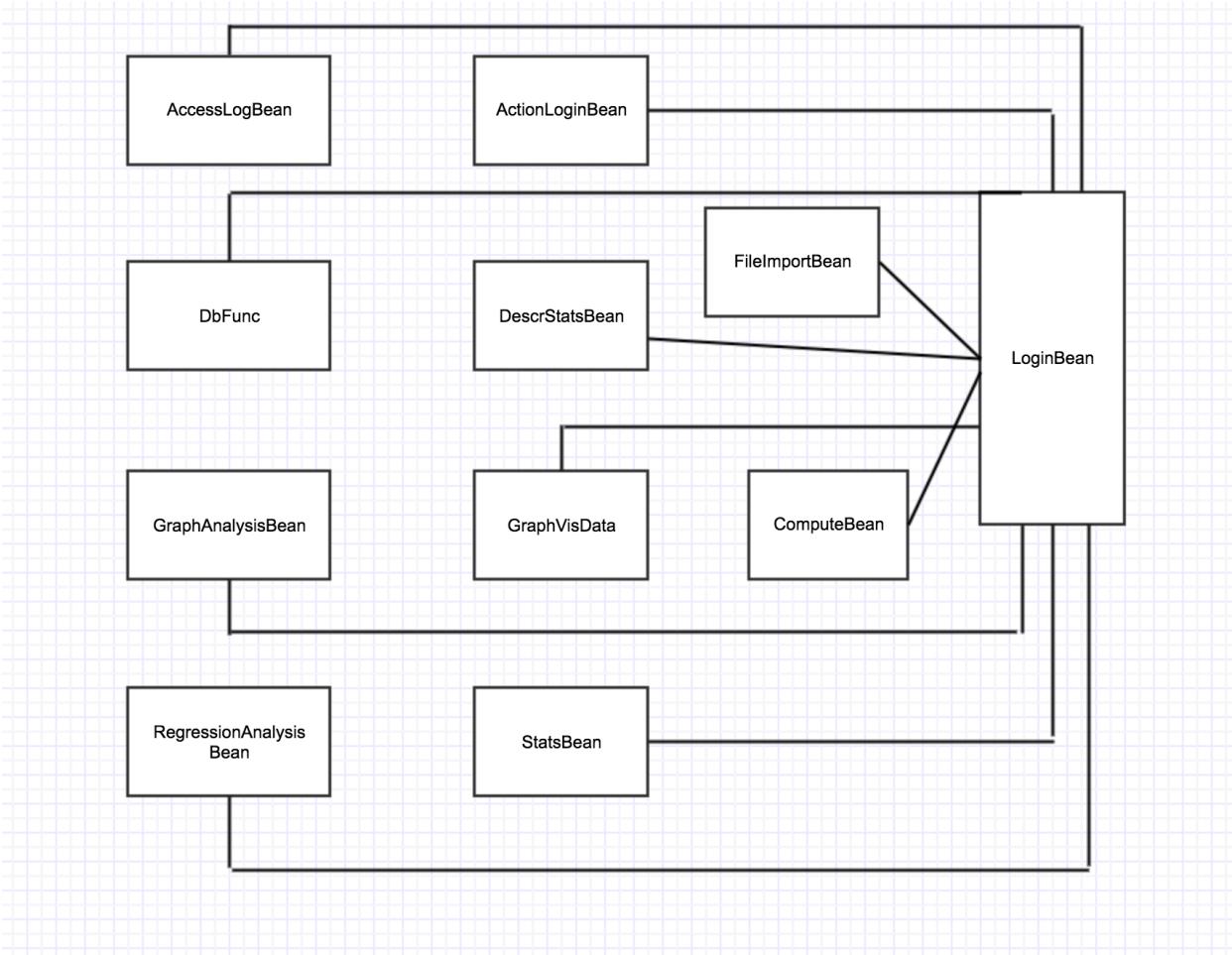


The screenshot shows the Java code for the `StatsBean` class. The class has several fields and methods. Fields include `columnNum`, `message`, `selectedTable`, `predictorValue`, `responseValue`, `printColumn`, `printMessage`, `printReport`, `printTabledata`, `printTablename`, `printRegressionColumn`, `printRegressionButton`, `printColumnListbutton`, `printRegressionResult`, `resultSetMetaData`, `descrStatsBean`, `regressionAnalysisBean`, `errorMessage`, `numData`, `nominalData`, `selectedColumn`, `columnList`, `tableList`, `columns`, `list`, `statisticList`, `result`, `resultSet`, `loginBean`, `metaData`, `xySeriesVariable`, `xySeries`, `predictorSeries`, `responseSeries`, and `xyDataset`. Methods include `StatsBean()`, `printTableList()`, `getRegressionColNames()`, `printRegressionColumns()`, `processLogout()`, and numerous other methods such as `splitCol()`, `onGraphChange()`, `createResultsforGraph()`, `createReport()`, `showColRegression()`, `calVariables()`, `getTables()`, `getColumnNames()`, `printRegressionReport()`, `calRegressionVariables()`, `onTableChange()`, `printRegressionResults()`, `restoreButton()`, `createRegressionResults()`, `restore()`, `getSelectedTable()`, `setSelectedTable(String)`, `getSelectedColumn()`, `setSelectedColumn(List<String>)`, `setSelectedColumn(List<String>)`, `getColumnList()`, `setColumnList(List<String>)`, `getXYSeriesVariable()`, `setXYSeriesVariable(YSeriesCollection)`, `isPrintColumn()`, `setPrintColumn(boolean)`, `getResultSet()`, `setResultSet(ResultSet)`, `isPrintTablename()`, `setPrintTablename(boolean)`, `getResultSetMetaData()`, `setResultSetMetaData(ResultSetMetaData)`, `getResultSet()`, `setResult(Result)`, `getTableList()`, `setTableList(List<String>)`, `getMetaData()`, `setMetaData(DatabaseMetaData)`, `getMessage()`, `setMessage(String)`, `isPrintMessage()`, `setPrintMessage(boolean)`, and `getLoginBean()`.

```
ui.edu.ids517.s17g310
StatsBean
    □ columnNum : int
    □ message : String
    □ selectedTable : String
    □ predictorValue : String
    □ responseValue : String
    □ printColumn : boolean
    □ printMessage : boolean
    □ printReport : boolean
    □ printTabledata : boolean
    □ printTablename : boolean
    □ printRegressionColumn : boolean
    □ printRegressionButton : boolean
    □ printColumnListbutton : boolean
    □ printRegressionResult : boolean
    □ resultSetMetaData : ResultSetMetaData
    □ descrStatsBean : DescrStatsBean
    □ regressionAnalysisBean : RegressionAnalysisBean
    □ errorMessage : String
    □ numData : List<String>
    □ nominalData : List<String>
    □ selectedColumn : List<String>
    □ columnList : List<String>
    □ tableList : List<String>
    □ columns : List<String>
    □ list : List<String>
    □ statisticList : List<DescrStatsBean>
    □ result : Result
    □ resultSet : ResultSet
    □ loginBean : LoginBean
    □ metaData : DatabaseMetaData
    □ xySeriesVariable : YSeriesCollection
    □ xySeries : YSeries
    □ predictorSeries : YSeries
    □ responseSeries : YSeries
    □ xyDataset : XYDataset
    ● StatsBean()
    ● printTableList() : void
    ● getRegressionColNames() : String
    ● printRegressionColumns() : boolean
    ● processLogout() : String
    ● splitCol() : String
    ● onGraphChange() : boolean
    ● createResultsforGraph() : boolean
    ● createReport() : String
    ● showColRegression() : String
    ● calVariables() : String
    ● getTables() : String
    ● getColumnNames() : String
    ● printRegressionReport() : String
    ● calRegressionVariables() : boolean
    ● onTableChange() : boolean
    ● printRegressionResults() : boolean
    ● restoreButton() : String
    ● createRegressionResults() : boolean
    ● restore() : void
    ● getSelectedTable() : String
    ● setSelectedTable(String) : void
    ● getSelectedColumn() : List<String>
    ● setSelectedColumn(List<String>) : void
    ● getColumnList() : List<String>
    ● setColumnList(List<String>) : void
    ● getXYSeriesVariable() : YSeriesCollection
    ● setXYSeriesVariable(YSeriesCollection) : void
    ● isPrintColumn() : boolean
    ● setPrintColumn(boolean) : void
    ● getResultSet() : ResultSet
    ● setResult(ResultSet) : void
    ● isPrintTablename() : boolean
    ● setPrintTablename(boolean) : void
    ● getResultSetMetaData() : ResultSetMetaData
    ● setResultSetMetaData(ResultSetMetaData) : void
    ● getResult() : Result
    ● setResult(Result) : void
    ● getTableList() : List<String>
    ● setTableList(List<String>) : void
    ● getMetaData() : DatabaseMetaData
    ● setMetaData(DatabaseMetaData) : void
    ● getMessage() : String
    ● setMessage(String) : void
    ● isPrintMessage() : boolean
    ● setPrintMessage(boolean) : void
    ● getLoginBean() : LoginBean
```

- `setLoginBean(LoginBean) : void`
- `getColumns() : List<String>`
- `setColumns(List<String>) : void`
- `getColumnNum() : int`
- `setColumnNum(int) : void`
- `getStatisticList() : List<DescrStatsBean>`
- `setStatisticList(List<DescrStatsBean>) : void`
- `isPrintTabledata() : boolean`
- `setPrintTabledata(boolean) : void`
- `getDescrStatsBean() : DescrStatsBean`
- `setDescrStatsBean(DescrStatsBean) : void`
- `isPrintRegressionColumn() : boolean`
- `setRenderRegressionColumn(boolean) : void`
- `isPrintColumnListbutton() : boolean`
- `setPrintColumnListbutton(boolean) : void`
- `isPrintRegressionButton() : boolean`
- `setPrintRegressionButton(boolean) : void`
- `getNominalData() : List<String>`
- `setNominalData(List<String>) : void`
- `getNumData() : List<String>`
- `setNumData(List<String>) : void`
- `getPredictorValue() : String`
- `setPredictorValue(String) : void`
- `getResponseValue() : String`
- `setResponseValue(String) : void`
- `isPrintReport() : boolean`
- `setPrintReport(boolean) : void`
- `isPrintRegressionResult() : boolean`
- `setPrintRegressionResult(boolean) : void`
- `getRegressionAnalysisBean() : RegressionAnalysisBean`
- `setRegressionAnalysisBean(RegressionAnalysisBean) : void`
- `getList() : List<String>`
- `setList(List<String>) : void`
- `getErrorMessage() : String`
- `setErrorMessage(String) : void`
- `getXyDataset() : XYDataset`
- `setXyDataset(XYDataset) : void`

UML DIAGRAM



Attributes in each class are shown above.