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| --- | --- |
| **Class Name:** CommonStatistics |  |
| **Description:** A class containing all information of most common operations used within the system, most common parameters used, and most common outputs (i.e. visualization) |  |
| **Responsibilities:**  mostCommomVisualizationAbstraction()  mostCommonInputDataType()  mostCommonInputFormat()  mostCommonViewerSet()  mostCommonVisualizationSupport()  mostGeneratedOutputFormat()  mostGeneratedOutputTypePipelines()  mostGeneratedVisualzations()  mostIngestedInputFormat()  mostIngestedInputTypePipelines() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  A class containing all information of most common operations used within the system, and most common parameters |  |

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| --- | --- |
| **Class Name:** Database |  |
| **Description:** Class that handles database calls |  |
| **Responsibilities:**  saveUserChanges()  saveGeneratedVisualization()  saveUserInformation()  changeFormatOfInputDataset()  encryptUserInformationMD5() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Handles all the database calls |  |

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| --- | --- |
| **Class Name:** Error |  |
| **Description:** Class that manages, and contains all errors within the system. |  |
| **Responsibilities:**  defineErrorType()  defineTypesofPipelineErrors()  defineTypesofServicesErrors()  logRegularUserSubmissionOfIncorrectSyntaxQueries()  logRegularUserSubmissionofQueriesWithEmptyPipeline()  logRegularUserSubmissionOfMalformedURL()  logRegularUserPipelinesExecutionServiceError()  logRegularUserPipelinesServiceTimeOutError()  logRegularUserPipelineExecutionInaccessibleDataURL()  logRegularUserPipelineExecutionInaccessibleDataURL()  logRegularUserRegisteredServicesTimeOutErrors() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Class that contains and handles all errors in the system. |  |

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| --- | --- |
| **Class Name:** ExecutionQueue |  |
| **Description:** Class that manages, and contains all executed pipelines. |  |
| **Responsibilities:**  removePipeline()  popUpExecution(String serviceName)  preparePipelineExecution()  executePipeline()  populatePipelineExecutionStatus() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Class that contains all executed pipelines |  |

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| --- | --- |
| **Class Name:** GUIAccountActivationConfirmation |  |
| **Description:** GUI class for Account Activation Confirmation page. |  |
| **Responsibilities:** activateAccount() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for account activation confirmation page |  |

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| --- | --- |
| **Class Name:** GUIAnalizePipelines |  |
| **Description:** GUI class for Analyze Pipelines page. |  |
| **Responsibilities:**  checkParameters()  populateGraph() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for analyze pipelines page |  |

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| --- | --- |
| **Class Name:** GUIAnalizeQuieries |  |
| **Description:** GUI class for Analyze Queries page. |  |
| **Responsibilities:**  checkSyntax()  populateGraph() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for analyze queries page |  |

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| --- | --- |
| **Class Name:** GUIAnalizeServices |  |
| **Description:** GUI class for Analyze services page. |  |
| **Responsibilities:**  populateGraph() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for analyze services page |  |

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| --- | --- |
| **Class Name:** GUIChooseQueryStyle |  |
| **Description:** GUI class for Choose Query Style page |  |
| **Responsibilities:**  verifyQuerySyntax()  captureVisualizationAbstraction() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for choose query style page |  |

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| --- | --- |
| **Class Name:** GUIConfigureAccount |  |
| **Description:** GUI class for Configure Account page |  |
| **Responsibilities:**  checkEmailAccountAssociation()  checkPasswordMatch()  checkEmailMatch()  replaceCorrespondingEmail()  replaceCorrespondingPassword() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for configure account page |  |

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| --- | --- |
| **Class Name:** GUIEditConverter |  |
| **Description:** GUI class for Edit Converter page |  |
| **Responsibilities:**  checkURLDropDownValues() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for edit converter page |  |

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| --- | --- |
| **Class Name:** GUIEditFilter |  |
| **Description:** GUI Class for Edit Filter page |  |
| **Responsibilities:**  checkURLDropDownValues() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for edit filter page |  |

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| --- | --- |
| **Class Name:** GUIEditMapper |  |
| **Description:** GUI class for Edit Mapper page |  |
| **Responsibilities:**  checkURLDropDownsValues() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for edit mapper page |  |

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| --- | --- |
| **Class Name:** GUIEditPipelineParameters |  |
| **Description:** GUI class for Edit Pipeline Parameters class |  |
| **Responsibilities:**  checkParameters() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for edit pipeline parameters page |  |

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| --- | --- |
| **Class Name:** GUIEditTransformers |  |
| **Description:** GUI class for Edit Transformers page |  |
| **Responsibilities:**  captureValues()  checkURLDropDown() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for edit transformers page |  |

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| --- | --- |
| **Class Name:** GUIEditViewer |  |
| **Description:** GUI class for Edit Viewer page |  |
| **Responsibilities:**  checkDropdownValues()  checkTextEntered() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for edit viewer page |  |

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| --- | --- |
| **Class Name:** GUIEditViewerSet |  |
| **Description:** GUI class for Edit Viewer Set page |  |
| **Responsibilities:**  checkText()  CheckDropdown() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for edit viewer set page |  |

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| --- | --- |
| **Class Name:** GUIGuestWelcome |  |
| **Description:** GUI class for Guest Welcome page |  |
| **Responsibilities:**  loginValidation() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Guest Welcome page |  |

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| --- | --- |
| **Class Name:** GUIPasswordRecovery |  |
| **Description:** GUI class for Password Recovery page |  |
| **Responsibilities:**  checkEmailAccountAssociation()  sendPasswordToAssociatedAccount() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Password Recovery page |  |

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| --- | --- |
| **Class Name:** GUIPrivilegedNavigation |  |
| **Description:** GUI class for Privileged User Navigation Sidebar |  |
| **Responsibilities:**  logout() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class that implements the Privileged User navigation |  |

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| --- | --- |
| **Class Name:** GUIPrivilegedUserHome |  |
| **Description:** GUI class for Privileged User Home page |  |
| **Responsibilities:**  logout() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for privileged user Home page |  |

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| --- | --- |
| **Class Name: GUIPrivilegeHeading** |  |
| **Description: GUI class for Privilege User Heading** |  |
| **Responsibilities:** | **Collaborations:**  **<< Not used at this time >>** |
| **Comments:**  **Class for privilege User Heading** |  |

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| --- | --- |
| **Class Name:** GUIRegister |  |
| **Description:** GUI class for Register page |  |
| **Responsibilities:**  checkPasswordMatch()  heckEmailMatch()  stateTextAreaIsEmpty()  stateEmailsDoNotMatch() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Register page |  |

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| --- | --- |
| **Class Name: GUIRegularHeading** |  |
| **Description: GUI class for Regular User heading** |  |
| **Responsibilities:** | **Collaborations:**  **<< Not used at this time >>** |
| **Comments:**  **Class for Regular User Heading** |  |

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| --- | --- |
| **Class Name:** GUIRegularNavigation |  |
| **Description:** GUI class for Regular User navigation |  |
| **Responsibilities:**  logout() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class that implements the Regular User Navigation. |  |

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| --- | --- |
| **Class Name:** GUIRegularUserHome |  |
| **Description:** GUI class for Regular User home |  |
| **Responsibilities:** | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Regular User Home page |  |

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| --- | --- |
| **Class Name:** GUISearchQueries |  |
| **Description:** GUI class for Privileged User search queries option |  |
| **Responsibilities:**  captureDateRange()  checkDropDowns() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Search Queries page |  |

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| --- | --- |
| **Class Name:** GUISearchUSers |  |
| **Description:** GUI class for Search Users page |  |
| **Responsibilities:**  checkTextFields()  captureDateRange()  checkDropDowns() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Search Users page |  |

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| --- | --- |
| **Class Name:** GUISelectOperation |  |
| **Description:** GUI class for Select Operation page for Regular User |  |
| **Responsibilities:**  checkDropDowns() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Select Operation page |  |

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| --- | --- |
| **Class Name:** GUISelectPipeline |  |
| **Description:** GUI class for Select Pipeline page for Visualize Regular User option |  |
| **Responsibilities:**  derivePipelinesFromQuery()  consrtructVisualizationQuery() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Select Pipeline page |  |

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| --- | --- |
| **Class Name:** GUISetQueryParameters |  |
| **Description:** GUI class for Set Query Parameters |  |
| **Responsibilities:**  checkURLInput()  getViewerSet()  getInputFormats()  getInputDataTypes() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Set Query Parameters |  |

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| --- | --- |
| **Class Name:** GUISpecifyHistory |  |
| **Description:** GUI class for specify history criteria |  |
| **Responsibilities:**  highlightDate()  checkDropdownValues() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Specify History Criteria page |  |

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| --- | --- |
| **Class Name:** GUISpecifyPipeline |  |
| **Description:** GUI class for Specify Pipeline Criteria Page |  |
| **Responsibilities:**  highlightDate()  checkDropdownValues() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Specify Pipeline Criteria page |  |

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| --- | --- |
| **Class Name:** GUISpecifyService |  |
| **Description:** GUI class for Specify Service Criteria page |  |
| **Responsibilities:**  highlightDate()  checkDropdownValues() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for Specify Service Criteria page |  |

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| --- | --- |
| **Class Name: GUIViewArguments** |  |
| **Description: GUI class for View Arguments page** |  |
| **Responsibilities:**  **populateFields()** | **Collaborations:**  **<< Not used at this time >>** |
| **Comments:**  **GUI class for View Arguments page** |  |

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| --- | --- |
| **Class Name:** GUIViewDetailsHistory |  |
| **Description:** GUI class for View History Details page |  |
| **Responsibilities:**  populateFields() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for View History Details page |  |

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| --- | --- |
| **Class Name:** GUIViewDetailsPipeline |  |
| **Description:** GUI class for View Pipeline Details Page |  |
| **Responsibilities:**  populateFields() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for View Pipeline Details page |  |

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| --- | --- |
| **Class Name:** GUIViewDetailsService |  |
| **Description:** GUI class for View Service Details page |  |
| **Responsibilities:**  populateFields() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for View Service Details page |  |

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| --- | --- |
| **Class Name:** GUIViewResult |  |
| **Description:** GUI class for View Results page |  |
| **Responsibilities:**  populateFields() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  GUI class for View (visualization) Results page (views some visualization pipeline result) |  |

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| --- | --- |
| **Class Name:** Pipeline |  |
| **Description:** Class to contain pipeline information |  |
| **Responsibilities:**  logAssociationBetweenPipelineAndError()  removePipelineExecutionQueue() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Class to contain pipeline information, etc. Defined as sequence of services |  |

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| --- | --- |
| **Class Name:** PrivilegedUser |  |
| **Description:** Subclass to contain information attributes, and special features for privileged user. |  |
| **Responsibilities:**  (leave alone) | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Subclass of User. Class to contain privileged user information, and special features. |  |

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| --- | --- |
| **Class Name:** Query |  |
| **Description:** Class containing all information and behavior of a query. |  |
| **Responsibilities:**  transformInputDataTypeToDifferentTypeFormat()  generateDataSetWithElementsRemovedFromInput() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Class to contain query information, and special features of query. |  |

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| --- | --- |
| **Class Name:** RegularUser |  |
| **Description:** Subclass to contain information attributes, and special features for regular user. |  |
| **Responsibilities:**  logRegularUserStatus() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Subclass to contain information, attributes, and special features for regular user. |  |

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| --- | --- |
| **Class Name:** Service |  |
| **Description:** Class containing service knowledge and behavior |  |
| **Responsibilities:**  addService()  deleteService()  setServiceStatus()  logRegisteredServiceStatus()  logAssociationBetweenSpecificServiceAndError()  getToolKit() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Class that contains all services information, and special features of service. |  |

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| --- | --- |
| **Class Name:** Rule |  |
| **Description:** Set of rules to designate a service |  |
| **Responsibilities:**  setRules() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  A class containing a set of rules for designating a service as a transformer, filter or mapper. |  |

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| --- | --- |
| **Class Name:** Statistics |  |
| **Description:** Class containing system statistics, such as statistics on errors, total number of users, queries, etc. |  |
| **Responsibilities:**  calculateTotalPipelinesExecuted()  totalServices()  calculatePipelineInputDataErrors()  calculateServiceExeutionErrors()  calculateServiceInputErrors()  calculateZeroPipelineResults()  calculateQuerySyntaxErrors()  calculateServiceTimeOut()  replaceEachPlaceHolderWithValues()  generateErrorLogs()  populateErrorDropDownQueryTypes()  populateErrorDropDownPipelineExcecutionTypes() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Class containing system statistics, such as statistics on errors, total number of users, queries, etc. |  |

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| --- | --- |
| **Class Name:** VisKoAPIInterface |  |
| **Description:** Interface class, to interact with VisKo API |  |
| **Responsibilities:**  bundleRegistrationAsVisKoModule()  forwardResultModuleToVisKoScript() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  Interface class, to interact with VisKo API |  |

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| --- | --- |
| **Class Name:** Visualization |  |
| **Description:** A class containing all information of a visualization. |  |
| **Responsibilities:**  createVisualization()  saveGeneratedVisualiztion() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  A class containing all information of a visualization. |  |

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| --- | --- |
| **Class Name:** VisualizationQuery |  |
| **Description:** A class containing all information of a visualization query |  |
| **Responsibilities:**  constructVisualizationQuery() | **Collaborations:**  << Not used at this time >> |
| **Comments:**  A class containing all information of a visualization query |  |

>:3

it’s a lion!! omgz