|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Verb Phrase** | **Responsibilities** | **Obvious** | **Unsure** | **Discarded** | **Comments** |
| Contain | Contain a Guest Heading |  |  | ✓ | Containing something can’t really be seen as a method. It’s part of the HTML. |
|  | Contain a Guest Welcome |  |  | ✓ | Part of the HTML. |
|  | Contain a Register Page |  |  | ✓ | Part of the HTML. |
|  | Contain an Account Activation confirmation page |  |  | ✓ | Part of the HTML. |
|  | Contain a Password Recovery |  |  | ✓ | Part of the HTML. |
|  | Contain a Regular User Heading |  |  | ✓ | Part of the HTML. |
|  | Contain a Regular User Navigation |  |  | ✓ | Part of the HTML. |
|  | Contain five elements |  |  | ✓ | Part of the HTML. |
|  | Contain a Regular User Home |  |  | ✓ | Part of the HTML. |
|  | Contain two pages under Search History |  |  | ✓ | Part of the HTML. |
|  | Contain a Specify Criteria page |  |  | ✓ | Part of the HTML. |
|  | Contain a View Details page |  |  | ✓ | Part of the HTML. |
|  | Contain five pages under Visualize |  |  | ✓ | Part of the HTML. |
|  | Contain a Choose Query Style page |  |  | ✓ | Part of the HTML. |
|  | Contain a Select Pipelines page |  |  | ✓ | Part of the HTML. |
|  | Contain a Set Query Parameters page |  |  | ✓ | Part of the HTML. |
|  | Contain an Edit Pipeline Parameters Page |  |  | ✓ | Part of the HTML. |
|  | Contain a View Result page |  |  | ✓ | Part of the HTML. |
|  | Contain seven pages under Manage Services |  |  | ✓ | Part of the HTML. |
|  | Contain a Select Operation page |  |  | ✓ | Part of the HTML. |
|  | Contain an Edit Mapper page |  |  | ✓ | Part of the HTML. |
|  | Contain an Edit Converter page |  |  | ✓ | Part of the HTML. |
|  | Contain an Edit Transformer page |  |  | ✓ | Part of the HTML. |
|  | Contain an Edit Viewer page |  |  | ✓ | Part of the HTML. |
|  | Contain an Edit Viewer Set page |  |  | ✓ | Part of the HTML. |
|  | Contain an Edit Filter page |  |  | ✓ | Part of the HTML. |
|  | Contain one page under Configure Account |  |  | ✓ | Part of the HTML. |
|  | Contain a Privileged User Heading |  |  | ✓ | Part of the HTML. |
|  | Contain Privileged User Navigation |  |  | ✓ | Part of the HTML. |
|  | Contain seven elements |  |  | ✓ | Part of the HTML. |
|  | Contain a Privileged User Home page |  |  | ✓ | Part of the HTML. |
|  | Contain two pages under Search Pipelines |  |  | ✓ | Part of the HTML. |
|  | Contain a Specify Criteria page |  |  | ✓ | Part of the HTML. |
|  | Contain a View Details page |  |  | ✓ | Part of the HTML. |
|  | Contain one page under Search Queries |  |  | ✓ | Part of the HTML. |
|  | Contain three pages under Search Services |  |  | ✓ | Part of the HTML. |
|  | Contain a Specify Criteria page |  |  | ✓ | Part of the HTML. |
|  | Contain a view Details page |  |  | ✓ | Part of the HTML. |
|  | Contain one page under Search Users page |  |  | ✓ | Part of the HTML. |
|  | Contain one page under Analyze Pipelines |  |  | ✓ | Part of the HTML. |
|  | Contain one page under Analyze Queries page |  |  | ✓ | Part of the HTML. |
|  | Contain one page under Analyze Services page |  |  | ✓ | Part of the HTML. |
| Interface | Interface with the VisKo API |  | ✓ |  | Not exactly a way to put it in a method, although it does have to interface with the VisKo API. |
| Described | Described under documentation at <https://github.com/nicholasdelrio/visko> |  |  | ✓ | Req. 43 |
| Populated | Populated by the result returned by the method “getVisualizationAbstraction()” | ✓ |  |  | Requirement contain method itself. |
|  | Populated by the result returned by the method “getViewerSet()” | ✓ |  |  | Requirement contain method itself. |
|  | Populated by the result returned by the method “getInputFormats()” | ✓ |  |  | Requirement contain method itself. |
|  | Populated by the result returned by the method “getInputDataTypes()” | ✓ |  |  | Requirement contain method itself. |
|  | Populated by the result returned by the method “getToolKits()” | ✓ |  |  | Requirement contain method itself. |
|  | populatePipelineExecutionStatus() | ✓ |  |  | Populate the pipeline execution status |
|  | populateParamtersBindingListing() | ✓ |  |  | Populate the parameters binding listing |
|  | populateFields() | ✓ |  |  | Populate all the fields in the page with the information that was used to create that visualization |
|  | populateErrorDropDownQueryTypes() | ✓ |  |  | Populate the error drop down list in search queries criteria with a set of query error types |
|  | populateErrorDropDownPipelineExecutionTypes() | ✓ |  |  | Populate the error drop down lost in search pipelines criteria and search service criteria with a set of pipeline execution types |
|  |  |  |  |  |  |
| Presented | Presented in pages: Set Query Parameters and Edit Viewer |  |  | ✓ | Presented is similar to display. |
|  |  |  |  |  |  |
| Rely | Rely on the functions provided by “Query” |  |  | ✓ | System relies in functions previously mentioned. |
|  | Rely on the functions provided by “Query Engine” |  |  | ✓ | System relies in functions previously mentioned. |
|  | Rely on the functions provided by “edu.utep.trustlab.visko.execution.” PipelineExecutionJob” |  |  | ✓ |  |
|  | Rely on the functions provided by “edu.utep.trustlab.visko.execution.” PipelineExecution” |  |  | ✓ | System relies in functions previously mentioned. |
|  | Rely on the functions provided by “edu.utep.trustlab.visko.execution.” PipelineExecutionJobStatus” |  |  | ✓ | System relies in functions previously mentioned. |
|  | Rely on the functions provided by “edu.utep.trustlab.visko.planning.pipelines.Pipelines.getParametersBindings()” |  |  | ✓ | System relies in functions previously mentioned. |
| Verify | verifyQuerySyntax() | ✓ |  |  | Verify the correctness of input query syntax |
| Derive | derivePipelinesFromQuery() | ✓ |  |  | Derive a set of executable pipelines from a query |
| Prepare | preparePipelineExecution() | ✓ |  |  | Prepare a pipeline for execution |
| Execute | executePipeline() | ✓ |  |  | Execute a pipeline |
| Bundle | bundleRegistrationAsViskoModule() | ✓ |  |  | Bundle the registration information in the form of a visko-module |
| Forward | forwardResultModuleToVisKoScript() | ✓ |  |  | Forward the resulting module to the VisKo module installer script |
| Register | Register and be activated |  |  | ✓ | This is a user action. |
| Granting | Granting access to the system |  |  | ✓ | This is a privileged user action |
| Activate | Activate Regular User accounts |  |  | ✓ |  |
| Transform | transformInputDatasetToDifferentTypeFormat() | ✓ |  |  | Transforms an input dataset to a dataset with a different Type and Format |
| Generate | generateDatasetWithElementsRemovedFromInput() | ✓ |  |  | Generate a dataset with elements removed from the input. |
|  | generateErrorLogs() | ✓ |  |  | Generate error logs |
| Change | changeFormatOfInputDataset() | ✓ |  |  | Change the Format of an input dataset. |
| Adhere | Adhere to the following rules for designating a service as a Transformer, Filter, and Mapper |  | ✓ |  | Unsure to what it means by this, is it a rule the system has to follow? |
| Clicked | Click button |  |  | ✓ | This is a user action, however it could be a method using the onClick() call |
| Submit | loginValidation() | ✓ |  |  | Submit for login validation |
| Display | Display the Register page |  |  | ✓ | Part of HTML |
|  | Display the required fields are not entered |  |  | ✓ | Part of HTML |
|  | Display emails or passwords do not match |  |  | ✓ | Part of HTML |
|  | Display the Password Recovery page |  |  | ✓ | Part of HTML |
|  | Display a non-existing account message |  |  | ✓ | Part of HTML |
|  | Display the Guest Welcome page |  |  | ✓ | Part of HTML |
|  | Display the Regular User Home page |  |  | ✓ | Part of HTML |
|  | Display the Specify Criteria page |  |  | ✓ | Part of HTML |
|  | Display the Choose Query Style page |  |  | ✓ | Part of HTML |
|  | Display the Select Operation page |  |  | ✓ | Part of HTML |
|  | Display the Configure Account page |  |  | ✓ | Part of HTML |
|  | Display all the visualization abstractions used previously by this user within the system |  |  | ✓ | Part of HTML |
|  | Display all the URLs used previously by this user within the system |  |  | ✓ | Part of HTML |
|  | Display all the Viewers used previously by this user within the system |  |  | ✓ | Part of HTML |
|  | Display all the source formats used previously by this user within the system |  |  | ✓ | Part of HTML |
|  | Display all the target formats used previously by this user within the system |  |  | ✓ | Part of HTML |
|  | Display all the target types used previously by this user within the system |  |  | ✓ | Part of HTML |
|  | Display the results of the search in the Results Section |  |  | ✓ | Part of HTML |
|  | Display the View Details page |  |  | ✓ | Part of HTML |
|  | Displayed in the Select Pipelines page |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the text area is empty |  |  | ✓ | Part of HTML |
|  | Display the associated text areas with the query options |  |  | ✓ | Part of HTML |
|  | Display the Set Query Parameters page |  |  | ✓ | Part of HTML |
|  | Display the associated text areas with the Pipelines options |  |  | ✓ | Part of HTML |
|  | Display the Edit Pipeline Parameters page |  |  | ✓ | Part of HTML |
|  | Displayed at the bottom of the Pipeline Execution Queue |  |  | ✓ | Part of HTML |
|  | Displayed shall be an image signifying that it is currently being processed |  |  | ✓ | Part of HTML |
|  | Displayed shall be an image signifying that it is failed |  |  | ✓ | Part of HTML |
|  | Display the View Result page |  |  | ✓ | Part of HTML |
|  | Display the list of all supported viewer Sets |  |  | ✓ | Part of HTML |
|  | Display the list of all supported Input Data Formats |  |  | ✓ | Part of HTML |
|  | Display the list of all supported Input Data Types |  |  | ✓ | Part of HTML |
|  | Display the Select Pipelines page |  |  | ✓ | Part of HTML |
|  | Display the list of all the supported Service Types |  |  | ✓ | Part of HTML |
|  | Display the appropriate blank edit Service page |  |  | ✓ | Part of HTML |
|  | Display the list of all the Viewer Sets that the user has added |  |  | ✓ | Part of HTML |
|  | Display the list of all the Viewers that this user has added |  |  | ✓ | Part of HTML |
|  | Display the list of all the Filters that the user has added |  |  | ✓ | Part of HTML |
|  | Display the list of all the Transformers that the user had added |  |  | ✓ | Part of HTML |
|  | Display the list of all the Mappers the user has added |  |  | ✓ | Part of HTML |
|  | Display the list of all the operations that the system supports |  |  | ✓ | Part of HTML |
|  | Display the list of all the supported abstractions that the system supports |  |  | ✓ | Part of HTML |
|  | Display a list of all the input formats |  |  | ✓ | Part of HTML |
|  | Display a list of all the output formats |  |  | ✓ | Part of HTML |
|  | Display a list of all the input data types |  |  | ✓ | Part of HTML |
|  | Display a list of all the output data types |  |  | ✓ | Part of HTML |
|  | Display a list of all the toolkits |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the WSDL URL field is empty |  |  | ✓ | Part of HTML |
|  | Display an error message stating the URL in the WSDL URL field is a malformed WSDL document |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the Viewer name field is empty |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the Viewer Set name field is empty |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the Brief Description name field is empty |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the documentation URL name field is empty |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the Incorrect Current Password was entered |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the Passwords do not match |  |  | ✓ | Part of HTML |
|  | Display an error message stating that the emails do not match |  |  | ✓ | Part of HTML |
|  | Display all the visualization abstractions |  |  | ✓ | Part of HTML |
|  | Display all the urls |  |  | ✓ | Part of HTML |
|  | Display all the Viewer Sets |  |  | ✓ | Part of HTML |
|  | Display all the source formats |  |  | ✓ | Part of HTML |
|  | Display all the source types |  |  | ✓ | Part of HTML |
|  | Display all the target formats |  |  | ✓ | Part of HTML |
|  | Display all the target types |  |  | ✓ | Part of HTML |
|  | Display al the possible error types defined within the system |  |  | ✓ | Part of HTML |
|  | Display the View Details page |  |  | ✓ | Part of HTML |
|  | Display all the service types |  |  | ✓ | Part of HTML |
|  | Display all the possible status types |  |  | ✓ | Part of HTML |
|  | Display the results of the search |  |  | ✓ | Part of HTML |
|  | Display all the possible accounts status types |  |  | ✓ | Part of HTML |
|  | Display all the possible affiliations |  |  | ✓ | Part of HTML |
|  | Display a bar graph containing the up to date frequency of pipeline errors |  |  | ✓ | Part of HTML |
|  | Display a bar graph containing the up to date frequency of query errors |  |  | ✓ | Part of HTML |
|  | Display a bar graph containing the up to date frequency of services used |  |  | ✓ | Part of HTML |
|  | Display a bar graph containing the up to date frequency of service errors |  |  | ✓ | Part of HTML |
| Check | checkPasswordAndEmailMatch() | ✓ |  |  | Check that the passwords and emails match |
|  | checkEmailAccountAssociation() | ✓ |  |  | Check that the email is associated with an existing account |
| Email | sendPasswordToAssociatedAccount() | ✓ |  |  | Email password associated with the account |
| Log | Log into the system |  |  | ✓ | These are for users, unless you meant log as in log data? The only “log into the system” I found in the SRS is actually “Logged” which is meant for users. |
|  | Log off the system |  |  | ✓ | User action |
|  | logRegularUserStatus() | ✓ |  |  | Log a regular user’s account status |
|  | logRegisteredServiceStatus() | ✓ |  |  | Log a registered service availability status |
|  | logRegularUserSubmissionOfIncorrectSyntaxQueries() | ✓ |  |  | Log regular users’ submission of syntactically incorrect queries |
|  | logRegularUserSubmissionOfQueriesWithEmptPipeline() | ✓ |  |  | Log regular users’ submission of queries that yield an empty pipeline set |
|  | logRegularUserSubmissionOfMalformedURL() | ✓ |  |  | Log regular users’ submission of queries of malformed URLs |
|  | logRegularUserPipelinesExecutionServiceError() | ✓ |  |  | Log regular users’ pipelines that fail execution due to a service execution error |
|  | logRegularUserPipelinesServiceTimeOutError() | ✓ |  |  | Log regular users’ pipelines that fail execution due to a service time out error |
|  | logRegularUserPipelineExecutionInaccessibleDataURL() | ✓ |  |  | Log regular users’ pipelines that fail execution due to inaccessible data URL |
|  | logAssociationBetweenPipelineAndError() | ✓ |  |  | Log the association between a pipeline that failed execution in the pipeline error that caused the failure |
|  | logRegularUserRegisteredServicesErrors() | ✓ |  |  | Log regular users’ registered services that yield execution errors |
|  | logRegularUserRegisteredServicesTimeOutErrors() | ✓ |  |  | Log regular users’ registered services that yield time out errors |
|  | logAssociationBetweenSpecificServiceAndError() | ✓ |  |  | Log the association between a specific service that failed execution in the service error that caused the failure |
| Replace | replaceCorrespondingEmail() | ✓ |  |  | Replace with the corresponding email address |
|  | replaceEachPlaceHolderWithValues() | ✓ |  |  | Replace each of the <place holders> with the actual up to date calculated values |
| Used | Used previously by the user within the system |  |  | ✓ | User action |
| Highlight | highlightDate() | ✓ |  |  | Highlight the date |
| Create | createVisualization() | ✓ |  |  | Create the visualization |
| Stating | stateTextAreaIsEmpty() | ✓ |  |  | State that the text area is empty |
|  | stateEmailsDoNotMatch() | ✓ |  |  | State that emails do not match |
| Remove | removePipelineFromExecutionQueue() | ✓ |  |  | Remove the pipeline from the pipeline execution queue |
| Popup | popUpExecuting(String serviceName) | ✓ |  |  | Popup with the text “Executing <Service Name>” |
|  | popupExecutingError(String serviceName) | ✓ |  |  | Popup with the text “Executing Error <Service Name>” |
| Enter | Enter the parameter values |  |  | ✓ | More of a store responsibility rather than enter |
| Save | saveGeneratedVisualization() | ✓ |  |  | Save the generated visualization in the client local file system |
|  | saveChanges() | ✓ |  |  | Save the changes for the user |
| Capture | captureAllValuesDropDownURL() | ✓ |  |  | Capture all the values in each of the drop down list and the URL entered |
|  | captureAllValuesDropDOwnTextEnteredNameFIeld() | ✓ |  |  | Capture all the values in each of the drop down list and the text entered in the name field |
| Return |  |  | ✓ |  | User Action? Or HTML |
| Add | newServiceNewUser() | ✓ |  |  | Add a new service under a new user |
| Select |  |  | ✓ |  | User Action? |
| Delete | deletedAssociatedService() | ✓ |  |  | Delete the associated service |
| Set | setStatusOfService() | ✓ |  |  | Set the status of the service as active or suspended |
|  | setStatusOfUser() | ✓ |  |  | Set the status of this user account as active or suspended |
| Construct | constructVisualizationQuery() | ✓ |  |  | Construct together a visualization query in term of the components and structure |
| Define | defineTypesOfErrors() | ✓ |  |  | Define three types of query errors |
|  | defineTypesofPipelineErrors() | ✓ |  |  | Define three types of pipeline execution errors |
|  | defineTypesofServicesErrors() | ✓ |  |  | Define three types of service execution errors |
| Count | countTotalServices() | ✓ |  |  | Count the total number of services registered |
| Calculate | calculateTotalPipelinesExecuted() | ✓ |  |  | Calculate the total number of pipelines executed |
|  | calculateTOtalNumberServiceErrors() | ✓ |  |  | Calculate the total number of service execution errors |
|  | calculateTotalNumberServiceInputErrors() | ✓ |  |  | Calculate the total number of service input errors |
|  | calculateTotalServiceTimeOut() | ✓ |  |  | Calculate the total number of service time outs |
|  | calculateTotalServiceInputDataErrors() | ✓ |  |  | Calculate the total number of service input data errors |
|  | calculateTotalNumberPipelineInputDataErrors() | ✓ |  |  | Calculate the total number of pipeline input data errors |
|  | calculateTotalQuerySyntaxErrors() | ✓ |  |  | Calculate the total number of query syntax errors |
|  | calculateTOtalNumberZeroPipelineResults() | ✓ |  |  | Calculate the total number of zero pipeline results |
| Identify | identifyMostGeneratedVisualzations() | ✓ |  |  | Identify the most generated visualization abstractions |
|  | identifyMostGeneratedOutputFormat() | ✓ |  |  | Identify the most generated output format |
|  | identifyMostIngestedInputFormat() | ✓ |  |  | Identify the most ingested input format |
|  | identifyMostIngestedInputTypePipelines() | ✓ |  |  | Identify the most ingested input type from pipelines |
|  | identifyMostGeneratedOutputTypePipelines() | ✓ |  |  | Identify the most generated output type from pipelines |
|  | identifyMostCommonVisualizationSupport() | ✓ |  |  | Identify the most common visualization abstraction support |
|  | identifyMostCommonInputFormat() | ✓ |  |  | Identify the most common input format |
|  | identifyMostCommonInputDataType() | ✓ |  |  | Identify the most common input data type |
|  | identifMostCommonVIsualization() | ✓ |  |  | Identify the most common visualization abstraction |
|  | identifyMostCommonViewerSet() | ✓ |  |  | Identify the most common viewer set |
|  | identifyMostCommonInputFormat() | ✓ |  |  | Identify the most common input format |
|  | identifMostCommonInputDataType() | ✓ |  |  | Identify the most common input data type |
| Encrypt | encryptUserInformationMD5() | ✓ |  |  | Encrypt the registered user’s information using MD5 algorithm |
| Supports | Support HTML5 and Javascript 1.8 |  |  | ✓ | This is more about the developers following the way the system should be designed. |

✓