**Preconditions**

1. The user follows Login use case flow to access ClubUML.
2. The user has already uploaded two valid diagrams of the same type (following UploadDiagram flow of events), and also of the same Context.
3. The user has selected a project from the welcome page that is enabled.
4. The user is using the proper database schema- use ClubUMLSpring2014/db/rationale.db to create the rationale entity in the clubuml schema.

**Flow of events**

1. The user follows Login use case flow to access ClubUML.
2. The user selects two diagrams from the list of diagrams in the project, which are the same type as well as Context, and have been output by the same piece of software to ensure compatibility.
3. The user clicks “Go To Compare” button for the selected diagram of the same type.
4. ClubUML generates a detailed comparison report in a display panel within the web page including the diagram.
5. The User clicks the Compare button to allow the user to identify which diagram to promote, ClubUML displays both Diagrams that are being compared with an option to promote the better Diagrams. In the same page, ClubUML displays panel indicating that Diagram has been promoted and list of suggestions why the recommendation was made including the refactoring score of each diagram.

The user has the option to click the PromoteButton to provided recommendations.

1. The user Clicks “Promote” Button to promote a preferred diagram and add the following options in the Dialog Box:
   1. **Summary**: Larger text input box to allow for multi-sentence input
   2. **Issue**: Small text input box meant for the issue name.
   3. **IssueRelationship**: Larger text input box that prompts for an explanation of how the issue relates to the superiority of the chosen diagram.
   4. **Criteria**: Small text input box meant for the criteria name.
   5. **CriteriaRelationship**: Larger text input box that prompts for an explanation of how the criteria relates to the superiority of the chosen diagram.
   6. **PromoteButton**: Saves input and dismisses dialog box.
   7. **CancelButton**: Discards input and dismisses dialog box.
2. The user has the ability to provide a structured reasoning on why he/she is promoting one diagram over the other.
3. The user then clicks the Promote button to promote the Diagram or Cancel button.

**Prerequisites Steps:**

1. Login into ClubUML
2. Select Project TAB
3. Select a Project with two Class Diagrams to Compare.
4. Under the Display Column, Select the two Class Diagram to Compare
5. Click on the “Go To Compare” Button.
6. Once two Images appear on the Compare Diagrams Page, Select the Compare Button.
7. Next Page provides a display of both Diagrams

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| **Test Case** | | | | |
| **TC ID** | **Condition Being Tested** | **Step Description** | **Expected Result** | **Pass/Fail** |
| RM1 | Promote Button for Diagram 1 | Click on Promote Button for Diagram1 to View Dialog Box 1 | Dialog Box should appear with the following:   1. Diagram Name should appear on the Title Bar of the Dialog Box. 2. Diagram Name should in the Heading of the Dialog Box. 3. Diagram Name of the Alternative Diagram should be as a second Title on the Dialog Box. 4. Body of the Dialog Box should show a Legend:    1. “Promote Diagram 1”    2. Summary and Text Box    3. Issue and Text Box    4. Issue Relationship and Text Box    5. Criteria and Text Box    6. Criteria Relationship and Text Box    7. Promote Button    8. Cancel Button | Pass |
| RM2 | Promote Button for Diagram 2 | Click on Promote Button for Diagram1 to View Dialog Box 2 | Dialog Box should appear with the following:   1. Diagram Name should appear on the Title Bar of the Dialog Box. 2. Diagram Name should in the Heading of the Dialog Box. 3. Diagram Name of the Alternative Diagram should be as a second Title on the Dialog Box. 4. Body of the Dialog Box should show a Legend:    1. “Promote Diagram 2”    2. Summary and Text Box    3. Issue and Text Box    4. Issue Relationship and Text Box    5. Criteria and Text Box    6. Criteria Relationship and Text Box    7. Promote Button    8. Cancel Button | Pass |
| RM3 | Dialog Box 1 – Cancel Button | 1. Login into the Database and check that the Rationale Table and note down the last RationaleId in the table. 2. Click on Promote Button for Diagram1 to View Dialog Box 3. Once Dialog Box 1 is presented, fill the following:    1. Summary Text Box    2. Issue Text Box    3. Issue Relationship Text Box    4. Criteria Text Box    5. Criteria Relationship Text Box 4. Click on **“Cancel Button”** 5. Login into the Database and check that Rationale Table does not have a new RationaleId | Clicking Cancel Button should close Dialog Box 1.  User should be sent back to the Main Promote Page.  There should no entry into the Database Table: Rationale | Pass |
| RM4 | Dialog Box 2 – Cancel Button | 1. Login into the Database and check that the Rationale Table and note down the last RationaleId in the table. 2. Click on Promote Button for Diagram1 to View Dialog Box 3. Once Dialog Box 2 is presented, fill the following:    1. Summary Text Box    2. Issue Text Box    3. Issue Relationship Text Box    4. Criteria Text Box    5. Criteria Relationship Text Box 4. Click on **“Cancel Button”** 5. Login into the Database and check that Rationale Table does not have a new RationaleId | Clicking Cancel Button should close Dialog Box 2.  User should be sent back to the Main Promote Page.  There should no entry into the Database Table: Rationale | Pass |
| RM5 | Dialog Box 1 – Promote a Rationale Diagram 1 with all the recommendations filled. | 1. Click on Promote Button for Diagram1 to View Dialog Box 2. Type the following information into the Summary Text Box:   *“I made a huge tiny mistake. There are dozens of us! Dozens! If you're suggesting I play favorites, you're wrong. I love all of my children equally.”*   1. Type the following information into the Issue Text Box:   *“If you don't start pulling your weight around here...”*   1. Type the following information into the Issue Relationship Text Box:   *“If you don't start pulling your weight around here its going to be shape up, or... ship up.”*   1. Type the following information into the Criteria Text Box:   *“*Hola, is Rosa still alive? No? Well this is not my day”   1. Type the following information into the Criteria Relationship Text Box:   *“Great, now I'm gonna smell to high heaven like a tuna melt!*Te quiero*. English, please. I love you! Great, now I'm late. Perhaps an attic shall I seek.”*   1. Click on Promote to save the provided recommendations. | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should be able to type into the Text Boxes in the Dialog Box 1 for Rationale Diagram1.  Check the Rationale Table in the Database for the recommendations provided. Table should be updated with new rationaleId and recommendations should be saved in the right Columns.  Check the Rationale Comment Area for Diagram1 updated with the Recommendation Information. | Pass |
| RM6 | Dialog Box 2 – Promote a Rationale Diagram 2with all Text Boxes filled. | 1. Click on Promote Button for Diagram1 to View Dialog Box 2. Type the following information into the Summary Text Box:   *“I made a huge tiny mistake. There are dozens of us! Dozens! If you're suggesting I play favorites, you're wrong. I love all of my children equally.”*   1. Type the following information into the Issue Text Box:   *“If you don't start pulling your weight around here....”*   1. Type the following information into the Issue Relationship Text Box:   *“If you don't start pulling your weight around here its going to be shape up, or... ship up.”*   1. Type the following information into the Criteria Text Box:   *“*Hola, is Rosa still alive? No? Well this is not my day”   1. Type the following information into the Criteria Relationship Text Box:   *“Great, now I'm gonna smell to high heaven like a tuna melt!*Te quiero*. English, please. I love you! Great, now I'm late. Perhaps an attic shall I seek.”*   1. Click on Promote to save the provided recommendations. | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should be able to type into the Text Boxes in the Dialog Box 1 for Rationale Diagram2.  Check the Rationale Table in the Database for the recommendations provided. Table should be updated with new rationaleId and recommendations should be saved in the right Columns.  Check the Rationale Comment Area for Diagram1 updated with the Recommendation Information.  Exception errors should not be thrown while promoting | Pass |
| RM7 | Dialog Box 1 – Promote a Rationale Diagram 1 with **no Text Boxes** filled. | 1. Click on Promote Button for Diagram1 to View Dialog Box 2. Leave all the Text Boxes Empty. 3. Click on Promote to save the provided recommendations.   The following Message should be Displayed in a Dialog Box:  “Please Enter Summary before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram1.  The following Message should be Displayed in a Dialog Box:  “Please Enter Summary before Prompting” | Pass |
| RM8 | Dialog Box 2 – Promote a Rationale Diagram 2 with no Text Boxes filled. | 1. Click on Promote Button for Diagram1 to View Dialog Box 2. Leave all the Text Boxes Empty. 3. Click on Promote to save the provided recommendations.   The following Message should be Displayed in a Dialog Box:  “Please Enter Summary before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram2.  The following Message should be Displayed in a Dialog Box:  “Please Enter Summary before Prompting” | Pass |
| RM10 | Dialog Box 1 – Promote a Rationale Diagram 1 with no ***Summary*** Text Box filled and all other Text Boxes Filled. | 1. Click on Promote Button for Diagram1 to View Dialog Box 2. Leave all the Summary Text Boxes Empty. 3. Add the recommendationsfor the following Text Boxes:   Issue  Issue Relationship  Criteria  Criteria Relationship   1. Click on Promote to save the provided recommendations.   The following Message should be Displayed in a Dialog Box:  “Please Enter Summary before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram1.  The following Message should be Displayed in a Dialog Box:  “Please Enter Summary before Prompting” | Pass |
| RM11 | Dialog Box 2 – Promote a Rationale Diagram 2 with no ***Summary*** Text Box filled and all other Text Boxes Filled. | 1. Click on Promote Button for Diagram2 to View Dialog Box 2. Leave the Summary Text Boxes Empty. 3. Add the recommendationsfor the following Text Boxes:   Issue  Issue Relationship  Criteria  Criteria Relationship   1. Click on Promote to save the provided recommendations.   The following Message should be Displayed in a Dialog Box:  “Please Enter Summary before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram2.  The following Message should be Displayed in a Dialog Box:  “Please Enter Summary before Prompting” | Pass |
| RM12 | Dialog Box 1 – Promote a Rationale Diagram 1 with no ***Issue*** Text Box filled and all other Text Boxes Filled. | Follow Steps for Test Case RM10  Step 2: Do not Enter Text for Issue Text Box  Click on Promote to save the provided recommendations.  The following Message should be Displayed in a Dialog Box:  “Please Enter Issue before Prompting” |  | Pass |
| RM13 | Dialog Box 2 – Promote a Rationale Diagram 2 with no ***Issue*** Text Box filled and all other Text Boxes Filled. | Follow Steps for Test Case RM11  Step 2: Do not Enter Text for Issue Text Box  Click on Promote to save the provided recommendations.  The following Message should be Displayed in a Dialog Box:  “Please Enter Issue before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram2.  The following Message should be Displayed in a Dialog Box:  “Please Enter Issue before Prompting” | Pass |
| RM14 | Dialog Box 1 – Promote a Rationale Diagram 1 with no ***Issue Relationship*** Text Box filled and all other Text Boxes Filled. | Follow Steps for Test Case RM10  Step 2: Do not Enter Text for Issue Relationship Text Box  Click on Promote to save the provided recommendations.  The following Message should be Displayed in a Dialog Box:  “Please Enter Issue Relationship before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram1.  The following Message should be Displayed in a Dialog Box:  “Please Enter Issue Relationship before Prompting” | Pass |
| RM15 | Dialog Box 2 – Promote a Rationale Diagram 2 with no ***Issue Relationship*** Text Box filled and all other Text Boxes Filled. | Follow Steps for Test Case RM11  Step 2: Do not Enter Text for Issue Relationship Text Box  Click on Promote to save the provided recommendations.  The following Message should be Displayed in a Dialog Box:  “Please Enter Issue Relationship before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram2.  The following Message should be Displayed in a Dialog Box:  “Please Enter Issue Relationship before Prompting” | Pass |
| RM16 | Dialog Box 1 – Promote a Rationale Diagram 1 with no ***Criteria*** Text Box filled and all other Text Boxes Filled. | Follow Steps for Test Case RM11  Step 2: Do not Enter Text for Criteria Text Box  Click on Promote to save the provided recommendations.  The following Message should be Displayed in a Dialog Box:  “Please Enter Criteria before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram1.  The following Message should be Displayed in a Dialog Box:  “Please Enter Criteria before Prompting” | Pass |
| RM17 | Dialog Box 2 – Promote a Rationale Diagram 2 with no ***Criteria*** Text Box filled and all other Text Boxes Filled. | Follow Steps for Test Case RM10  Step 2: Do not Enter Text for Issue Relationship Text Box  Click on Promote to save the provided recommendations.  The following Message should be Displayed in a Dialog Box:  “Please Enter Criteria before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram2.  The following Message should be Displayed in a Dialog Box:  “Please Enter Criteria before Prompting” | Pass |
| RM18 | Dialog Box 1 – Promote a Rationale Diagram 1 with no ***Criteria Relationship*** Text Box filled and all other Text Boxes Filled. | Follow Steps for Test Case RM11  Step 2: Do not Enter Text for Criteria Relationship Text Box  Click on Promote to save the provided recommendations.  The following Message should be Displayed in a Dialog Box:  “Please Enter Criteria Relationship before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram1.  The following Message should be Displayed in a Dialog Box:  “Please Enter Criteria Relationship before Prompting” | Pass |
| RM19 | Dialog Box 2 – Promote a Rationale Diagram 2 with no ***Criteria Relationship*** Text Box filled and all other Text Boxes Filled. | Follow Steps for Test Case RM11  Step 2: Do not Enter Text for Criteria Text Box  Click on Promote to save the provided recommendations.  The following Message should be Displayed in a Dialog Box:  “Please Enter Criteria Relationship before Prompting” | Summary Test Box should show a Placeholder  *“Summary”*  *“Issue”*  *“Issue Relationship”*  *“Criteria”*  *“Criteria Relationship”*  User should not be able to promote the Rationale for Diagram2.  The following Message should be Displayed in a Dialog Box:  “Please Enter Criteria Relationship before Prompting” | Pass |
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