# <UC2.1 : Create Entity Mapping for Commodity>

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| Actors | Business User |
| Description | Create mapping string for the Business entity |
| Preconditions | Entity should exist in the database |
| Post conditions | The user should be able to create the entity mapping with the Business Entity |
| Trigger | 1. Entity should exist in the database 2. Source System should exist in the database |
| Steps  (Normal Flow) | 1. The User selects the Entity Button 2. A drop down list will appear in front of the user    1. Market    2. Commodity 3. The user will select Commodity Entity from the above Business entities 4. The user will select the Create Entity Mapping Button option and the following fields will be shown to the user    1. Mapping String\*    2. Mapping Description\*    3. Start Date\*    4. End Date    5. Source System\*    6. Is-Enabled Flag\*    7. Is- Default Mapping    8. Last Updated By    9. Last Updated Date 5. After entering all the data, the user selects the SAVE or CANCEL button. 6. If the SAVE button is clicked    1. The Entity is created and added to the database, a message is displayed that the Entity has been created successfully and the user is redirected to the home page. 7. If the CANCEL button is clicked    1. The operation is cancelled and he is redirected to the home page.   \*Mandatory Fields  Highlighted Fields- Self Populated |
| Extensions/  Alternative Flows | Particular source system is not available |
| Business Rules | Validations:   1. All the mandatory fields should be filled. 2. For Mapping String    1. If mapping string exceeds maximum length and leading or trailing characters are not alphanumeric then prompt the user to enter valid string information.    2. Else if the mapping string already exists then   2.2.1 Show the message that Mapping strings must never be duplicated for the same source system and same entity and at any point in time. Otherwise to close the original mapping by setting an appropriate end date.   * 1. Otherwise accept the string to be used as the Mapping String.  1. Enter the start date    1. If the start date format is valid       1. If start date is greater than end date then show message that start date should be smaller than end date.       2. It should include time as well       3. Default value of start date must mimic the entity being mapped for.    2. Enter the date in valid format 2. Enter the end date    1. If the end date format is valid       1. If end date is lesser than start date then show message that the end date should be greater than the start date.       2. It should include the time as well       3. Default value of end date must mimic the entity being mapped for. 3. Entering the Is- Default Mapping then    1. If mapping for a Source System is marked as default then       1. Second mapping is not allowed message should be displayed    2. Else set-off the default flag of the first mapping and make the second mapping default. |
| Non Functional Requirements | Not A time lag between transitions |
| Issues | Database Server is down |