# Technical Design Document of CICD Tool

## Dynamic Source Control

### Form JavaScript

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| **Function Name** | **Trigger** | **Pseudo Code** |
| SYED.SourceControlQueue.EventHandler. ShowHideSolutionDetailsSections | OnLoad | If Form is Create then,   * Hide Merge Solution Tab * Hide General Tab * Hide Instance Detail section in Deployment Details tab. * Set name with Sol+Date and time.   Else   * Show Merge Solution Tab * Show General Tab * Show Instance Detail section in Deployment Details tab. * SYED.SourceControlQueue. * EventHandler.ShowHideHTML |
| SYED.SourceControlQueue.  EventHandler.ShowHideHTML | OnChange of CommitID | If commit id has value, then   * Show Reference Tab   Else   * Hide Reference Tab |
| SYED.SourceControlQueue.  EventHandler.RefreshPage | On Click of Refresh Button | Open Dynamics Source Control form with Guid. |
| SYED.SourceControlQueue.  EventHandler.SavePage | On Save of the Page | Once form saved and Refresh the page.  SYED.SourceControlQueue.  EventHandler.RefreshPage |

### Ribbon JavaScript

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| **Function Name** | **Button Name** | **Action Pseudo Code** |
| SYED.SourceControlQueue.  EventHandler.ShowHideMergeButton | Submit | If Form mode is not Create then,  If Related Master Solution contains record, then  If Check In is True   * Update Status to Queued. * Save and Refresh. * SYED.SourceControlQueue.   EventHandler.SavePage  Else  If Related Deployment Instance contains record, then   * Update Status to Queued. * Save and Refresh. * SYED.SourceControlQueue.   EventHandler.SavePage  Else  Set notification as “To Submit, please add Deployment Instance Details.”    Else   * Set notification as “To Submit, please select Master Solution” |
| SYED.SourceControlQueue.  EventHandler.RefreshPage | Refresh | Open Dynamics Source Control form with Guid. |

### HTML

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| **Name:** | syed\_/HTML/SourceControlQueue |
| **Pseudo Code** | IF Commit ID contain data THEN   * Show Commit Id value in HTML |

|  |  |
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| **Name:** | syed\_/HTML/SourceControlQueue/WebJobs |
| **Pseudo Code** | IF Web Jobs contain data THEN   * Show Web Jobs value in HTML |

### Grid JavaScript

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| --- | --- | --- | --- |
| **Function Name** | **Entity** | **Trigger** | **Pseudo Code** |
| SYED.SourceControlQueue.  EventHandler.OnRowSelected | Master Solution | On Row Selected | Disable all columns expect   * Order * New Version * Export As |

### Business Rule

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| --- | --- |
| **Name:** | Queue Status Lock / Unlock |
| **Pseudo Code** | IF Queue Status does not contain data THEN   * Unlock Queue Status   ELSE   * Lock Queue Status |

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| --- | --- |
| **Name:** | Set Default Queue Status |
| **Pseudo Code** | IF Queue Status does not contain data THEN   * Set default value of Queue Status to "Draft" * Hide field Queue Status |

### Plugin

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| --- | --- |
| **Plugin Assembly** | **Solution Management** |
| **Entity Name** | syed\_sourcecontrolqueue |
| **Message** | Retrieve |
| **Filtering Attributes** |  |
| **SDK Message Processing Step** | SolutionManagement.SolutionManagement: Retrieve of syed\_sourcecontrolqueue |
| **SDK Message Processing Step Image** | No Image |
| **Execution Mode** | Synchronous |
| **Execution Order** | 1 |
| **Operation** | Post Operation |
| **Purpose** | To Sync Solutions with custom entity CRM Solutions |
| **Pseudo Code** | * On Retrieve, check all the solutions are available in custom CRM Solution entity. If not available create a record. * If any solutions are deleted, then delete the same solution record in custom CRM Solution entity. |

### Workflow

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| No Workflows |

## Deployment Instance

### JavaScript

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| No JavaScript |

### HTML

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| --- | --- |
| **Name:** | syed\_/HTML/DeploymentInstance |
| **Pseudo Code** | * HTML Field to store Password |

### Business Rule

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| No Business Rule |

### Plugin

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| --- | --- |
| **Plugin Assembly** | Solution Management |
| **Entity Name** | Create |
| **Message** | syed\_deploymentinstance |
| **Filtering Attributes** | No |
| **SDK Message Processing Step** | SolutionManagement.EncryptPassword: Create of syed\_deploymentinstance |
| **SDK Message Processing Step Image** | No Image |
| **Execution Mode** | Synchronous |
| **Execution Order** | 1 |
| **Operation** | Pre Operation |
| **Purpose** | To Encrypt Password |
| **Pseudo Code** | If Password contains Data, then   * Encrypt and Update the Password. |

### Workflow

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| No Workflows |

## Master Solution

### JavaScript

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| --- | --- | --- |
| **Function Name** | **Trigger** | **Pseudo Code** |
| SYED.SolutionDetail.  EventHandler.SetSourcecontrolValues | OnLoad/  OnChange of CRM Solution | If CRM Solution contains Data then,   * Retrieve all field from custom CRM Solution entity and fill below values * Set Friendly name * Set Is Managed * Set Name * Set Publisher * Set Installed On * Set Unique Name * Set Version * Set Guid of Solution   Else   * Set Friendly name to Null * Set Is Managed to Null * Set Name to Null * Set Publisher to Null * Set Installed on to Null * Set Unique Name to Null * Set Version to Null * Set Guid of Solution to Null |

### Grid JavaScript

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| --- | --- | --- | --- |
| **Function Name** | **Entity** | **Trigger** | **Pseudo Code** |
| SYED.SolutionDetail.EventHandler.OnRowSelected | Merge Solution | On Row Selected | Disable all columns expect   * Order |

### Business Rule

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| --- | --- |
| **Name:** | Clear field values if no master solution is selected |
| **Pseudo Code** | IF CRM Solutions does not contain data THEN   * Clear Name * Clear Publisher * Clear Installed On * Clear Version * Clear Solution Id * Clear Unique Name * Clear Friendly Name * Clear Sort Order * Clear New Version * Set Is Managed to “Unmanaged” |

### Plugin

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| No Plugin |

### Workflow

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| No Workflows |

## Merge Solution

### JavaScript

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| --- | --- | --- |
| **Function Name** | **Trigger** | **Pseudo Code** |
| SYED.MergeSolution.  EventHandler.SetCRMSolutionValues | OnLoad/  OnChange of CRM Solution | If CRM Solution contains Data then,   * Retrieve all field from custom CRM Solution entity and fill below values * Set Friendly name * Set Is Managed * Set Name * Set Publisher * Set Installed On * Set Unique Name * Set Version   Else   * Set Friendly name to Null * Set Is Managed to Null * Set Name to Null * Set Publisher to Null * Set Installed on to Null * Set Unique Name to Null * Set Version to Null |

### Business Rule

|  |  |
| --- | --- |
| **Name:** | Clear fields based on CRM Solutions |
| **Pseudo Code** | IF CRM Solutions does not contain data THEN   * Clear Friendly Name * Set Is Managed to "Un Managed" * Clear Name * Clear Publisher * Clear Installed On * Clear Unique Name * Clear Version |

### Plugin

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| No Plugin |

### Workflow

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| No Workflows |

## CRM Solution

### JavaScript

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| No JavaScript |

### Business Rule

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| No JavaScript |

### Plugin

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| No Plugin |

### Workflow

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| No Workflows |