

# Tutorials and Guides



Check out the [Video Tutorials](#) for more interactive learning experience.

## Platform Tutorials

- [Automatically synchronize LDAP based on schedule](#)
- [Backup, Restore and Disaster Recovery](#)
- [Protect Sensitive Data](#)
- [Troubleshooting - Common Errors](#)

## App Tutorials

- [App Versioning and Publishing](#)
- [Update Existing Running Process Instances to the Newer Process Flow After Process Changes](#)
- [Database Connection Monitoring and Leak Detection](#)
- [Customizing App Center](#)
- [Internationalization](#)
- [Handling Permissions for Custom User Object Attributes in LDAP or AD](#)

## Form Tutorials

- [Add a Grid](#)
- [Add a new Row in Form Grid using script](#)
- [Add Extra Attributes and Signature to User Profile](#)
- [Add jQuery Tooltip to form](#)
- [Add Save as Draft feature to Run Process activity form](#)
- [Ajax Cascading Drop-Down List](#)
- [Create Aggregate Final Row in Grid](#)
- [Duplicate Form](#)
- [Duplicate Form Element](#)
- [Duplicate Form Grid](#)
- [Dynamic Cascading Drop-Down List](#)
- [File Upload in Grid](#)
- [Format, List, Sort, and Filter using the Date Picker](#)
- [Form Permission Control](#)
- [Generate Reference ID](#)
- [Hide Save as Draft Button](#)
- [How to host image in Form or Userview](#)
- [List Grid/Popup Selectbox - Pass field value to Datalist for filtering](#)
- [Load and Store Form Grid Data Using Bean Shell Form Binder](#)
- [Many-to-Many Relationship Form Design](#)
- [Pre-populate Form Fields from Request Parameters](#)
- [Pre-populate Form Fields with Data from External Source](#)
- [Pre-populate Form Select List from External Source](#)
- [Sample Scripts](#)
- [Selective Store Form Fields Based on Submit Button](#)
- [Show and Hide Form Sections](#)
- [Spreadsheet Custom Formats](#)
- [Subforms](#)
- [Temporarily disable form validation for record creation](#)

## Datalist Tutorials

- [Duplicate List](#)
- [Filter Records using Request Parameter](#)
- [Formatting and Making Foreign Key Reference Using Default Formatter](#)
- [Listing of Records](#)
- [List Pending Activity and Assignees](#)
- [Merge 2+ processes into 1 datalist inbox \[Multiapproval application\]](#)
- [Prepopulating Select Box With Multiple Row Selection in Datalist](#)
- [Show images in List](#)
- [Showing Process Instance \(List Record\) Data in a Form](#)
- [Start Process from Datalist Hyperlink Action](#)
- [Using Date Formatter, Date Filter and Date Range Filter](#)

## Userview Tutorials

- [Automatically advance to next Assignment in Datalist Inbox](#)
- [Close Popup Dialog on Submission of Form](#)
- [Corporati Theme customizations](#)
- [Create Graph using JasperReports iReport Designer](#)
- [Duplicate Userview](#)

- [Enable "Are you sure?" Dialog for Userview](#)
- [How to Add Filtering to Calendar Menu](#)
- [Passing form value as parameter to filter JasperReport](#)
- [Performance Improvement with Userview Caching](#)
- [Process Status Userview Menu sample app](#)
- [Run Process from CRUD Add Button](#)
- [Set favicon for Userview](#)
- [Typical Userview Design](#)
- [Userview Key](#)
- [Userview Permission Control](#)

#### Process Tutorials

- [Add Signature Form Element as Image into Email Content](#)
- [Advanced Participant Mapping](#)
- [Call Stored Procedure - MySQL](#)
- [Configure JSON Tool based on the JSON data structure](#)
- [Duplicate Process](#)
- [Email Polling System](#)
- [Multiple Approval](#)
- [Multiple Approval v2 \(Thread safe\)](#)
- [Participant Mapping - Assign to User in Group with the least assignments](#)
- [Process Deadlines, Exceptions and SLAs](#)
- [Process thumbnails not showing](#)
- [Sending Email](#)
- [Sending Reminder Repetitively](#)
- [Send JasperReports PDF in Email Tool](#)
- [Setting Workflow Variable Value in Process Tool Bean Shell](#)
- [Start a Process from External Page](#)
- [Subflows \(Subprocesses\)](#)
- [Updating Foreign Record using Form Data Update Tool](#)
- [User Notifications](#)

#### Video Tutorials