FlowCentral Technologies

# Applets

01/10/2024

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# 1. Revision History

| VERSION | DESCRIPTION | REVISED BY | DATE |
|---------|-------------|------------|------|
| 1.0 | - Initial Draft | Ayomide Sowande | 01-10-2024 |
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# 2. Purpose

The purpose of this user guide is to explain in detail how to use and customize the Applet tool in the FlowCentral Studio.

# 2. Purpose

# 3. Applets

Applets are small, self-contained software programs that are typically designed to run within the context of a larger software application.

## 3.1 Creating an Applet

This section highlights the step-by-step process involved in creating a new Applet.
To create an Applet,

1.  **Expand Applet on the task bar:**
    On the side bar that displays the studio components, click on Applets to expand applet. A list of actions is displayed allowing the user to either create a new applet or select an existing applet.

2.  **Click on New Applet:**
    On clicking this menu, the system opens a blank form that allows users to enter necessary information to create an applet.

3.  **Fill the form:**
    This form allows the user to customize an applet. It contains mandatory fields that cannot be left blank.



*Figure 3.1 Applet*

- **Type:** This field allows the user to select the type of applet to be created
- **Name:** The Name field allows the user to specify a unique name for the applet to be created. The name must be typed in **camel cases**.
- **Description:** This field takes a brief description of the applet to be created
- **Label:** This field takes a label for the applet to be created
- **Configuration:** This field is filled out by default and specifies the configuration of the applet
- **Entity:** An entity that backs the applet
- **Display index:** The order in which the applets would appear
- **Menu Access:** Defines the applet visibility on the end-user menu
- **Allow Secondary Tenants:** Defines tenant restriction on the applet

*Note: Any field with the red asterisk* **\*** *is a mandatory field. This means that the field is required to be filled before the form can be saved.*

4.  **Click on Save:** After filling the form, the next step is to save the form. To save this form, click on save at the end of the form.

NB: Once this field is saved, it is no longer editable but can be deleted.

# 4. Child Tabs

These are additional forms for required data that are displayed after the parent form has been filled and saved.
There are four tabs in this section;

## 4.1 Properties

These are values used to customize the behavior of an applet.
Click **Edit** to customize properties for the Applet



| NAME | DESCRIPTION |
| --- | --- |
| Page Alternate Caption | An alternative text or caption for a web page element, such as an image or video, to make the content accessible to users who may be using screen readers or other assistive technologies |
| Page Alternate Sub-Caption | An alternative or supplementary caption or description for a specific subsection of content within a web page. |
| Page Maintain Caption | The practice of ensuring that captions associated with various elements on a web page are properly maintained and updated over time. |
| Page Listing Caption | The descriptive text or labels associated with items listed on a webpage, such as in a list or a grid view. These captions serve to provide context, identify the items, and assist users in understanding the content being presented. |
| Search Add Caption | Descriptive text to code snippets, diagrams, or screenshots to provide clarity, context, or explanation. |
| Search Add Multi-Select Reference | Allows users to select multiple items from a list or collection and associating those selections with another entity or action. |
| Search Add Entity Tree Table Generator | A tool or library that facilitates the creation of tree-like structures displayed in a tabular format, often used for representing hierarchical data. |
| Search Table | To incorporate tables to display data or information within the applet's user interface. |
| Search on Criteria Only | Searching based solely on user-defined criteria without any pre-set filters or constraints. This involves allowing users to input their search parameters without any predetermined limitations. |
| Search by Constraint | Querying or filtering data based on specific limitations or conditions. |
| Base Restriction | Limitations or constraints imposed by the underlying platform or environment when developing Java applets. |
| Search New | This function allows the applet to search for new data in the system's database |
| Search Edit | a user interface component that combines search functionality with the ability to edit or modify the search query dynamically. |
| Search Quick Filter | A user interface component or feature that allows users to quickly and easily filter data displayed within a table, list, or other view based on specific criteria |

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| Search Quick Filter Default | Setting a default filter for quick filtering functionality. This means that when users access the quick filter feature, certain filters are applied automatically by default to provide a predefined view of the data |
| Action Footer | A user interface (UI) element typically located at the bottom of an applet window or panel that contains buttons or controls for performing actions or operations related to the content displayed in the applet. |
| Search Report | Allows the system to generate a search report in the end-user's view |
| Basic Search Only | Creating a simple search feature that allows users to search for specific keywords or phrases within a predefined dataset. |
| Search Input | A user interface component that allows users to enter search queries or keywords to retrieve specific information from a dataset or database. |
| Search Columns | The specific fields or attributes within a database table or data structure that are searchable. |
| View Items in Separate Tabs | Creating a user interface where each item is displayed in its own tab within a tabbed interface. This allows users to easily switch between different items while keeping them organized and accessible. |
| Enable Show Expanded Details | A feature or functionality within a software application that allows users to view additional or expanded information related to a specific item or entity. This feature is often implemented in user interfaces where space constraints may limit the amount of information displayed by default. |
| Create Caption | A label or title associated with a user interface component, such as an image, form field, chart, or table. Captions provide context or descriptive information to help users understand the purpose or content of the associated element. |
| Listing Form | A user interface component used to display a list of items or records retrieved from a database or other data source |
| Create Form | Designing and implementing a user interface (UI) component that allows users to input data, interact with the application, and submit information. |
| Create Policy | Outlines the rules, guidelines, and procedures for creating new software components, such as applications, modules, features, or functionalities. |
| Maintain Form | Refers to the ongoing process of managing, updating, and enhancing forms within an application to ensure they remain functional, efficient, and aligned with evolving requirements and user needs. |
| Update Policy | Outlines the rules, guidelines, and procedures governing how updates to software systems, applications, or data are managed. |
| Save as Policy | Outlines the rules and guidelines regarding the behavior and usage of the "Save As" functionality within an application. |
| On-create Form State Policy | A set of rules or guidelines that dictate the initial state of a form when it is first created or loaded |
| Update Condition | The criteria or set of rules that determine when an update operation should be applied to a particular data record or entity within a system. |
| Delete Policy | A set of rules, guidelines, or procedures that govern the deletion of data or entities within a system. |
| Delete Condition | A criterion or set of criteria that determines whether a particular data record, entity, or element should be deleted from a system. |
| Delete (Pseudo) Set Values | Demonstrates a simple approach to deleting values from a set in the software development |
| Form Save | The capability for users to store or persist the data they've entered into a form. |
| Form Save and Next | The capability for users to save the data entered or modified in a form |

| | and then proceed to the next form or step in a sequence. |
|---|---|
| Form Save and Close | The capability for users to save the data entered or modified in a form and then close the form window or navigate away from it. |
| Form Save As | The capability for users to save a file or document under a different name or location than the original. |
| Form Update | The process of modifying existing data in a form or user interface |
| Form Delete | Allowing users to remove existing data records or entities from a system using a form-based interface. |
| Form Delete (Pseudo) | It includes functions for displaying records in the form, confirming deletion, and deleting records from the database. |
| Form Capture | The process of collecting and storing data entered by users through a form interface. |
| Form Capture Attachment Provider | a component or service that allows users to attach files or documents to a form submission. |
| Form Attachment | The capability for users to upload and attach files or documents to a form submission |
| Listing Redirection Policy | The rules or logic used to determine where users are redirected after interacting with a list or collection of items in an application. |
| Entry Table | A data structure or user interface element used to input or display tabular data representing entries or records. |
| Entry Edit Policy | A set of rules or guidelines that dictate how users can edit or modify entries within a system or application. This policy helps ensure data integrity, security, and consistency by defining the permissions, restrictions, and procedures governing the editing process. |
| Quick Edit Form | A user interface component or feature that allows users to quickly and conveniently edit data within a table or list view without navigating to a separate page or modal dialog. This functionality is particularly useful for scenarios where users need to make minor changes to multiple records efficiently. |
| Quick Edit Table | A user interface component or feature that allows users to quickly and easily edit data within a table view without navigating to a separate edit screen. This functionality is particularly useful for scenarios where users need to make minor changes to multiple records efficiently. |
| Quick Edit Policy | Set of rules and guidelines that dictate how quick edits are managed and executed within an application or system. This policy ensures consistency, accuracy, and security when users perform quick edits on data. |
| Quick Edit Width (px) | Specifying the width of the quick edit feature within a user interface. This parameter determines the visual size of the quick edit component when it's displayed to users |
| Quick Edit Height (px) | Specifying the height of the quick edit feature within a user interface. This parameter determines the visual size of the quick edit component when it's displayed to users. |
| Draft Workflow | A predefined sequence of steps or stages that a software artifact, such as a document, code, or design, undergoes during the drafting and review process. This workflow outlines the process by which drafts are created, reviewed, revised, and eventually finalized. |
| Draft Workflow Attachment Provider | A component or service that facilitates the management and handling of attachments within the context of a draft workflow. This component would allow users to attach relevant files, documents, or other resources to drafts as they progress through the drafting and review process. |

| Set Values on Creation Copy | A feature or functionality where certain values from an existing entity or object are automatically copied and set as default values for a newly created entity or object. |
|---|---|
| Alert on Creation Submit | A feature where an alert, notification, or confirmation message is displayed to users when they submit a form or create a new entity within an application. This alert can provide feedback to users about the success or outcome of the creation process and may include additional information or actions. |
| Set Values on Creation Submit | A feature where certain predefined values are automatically set or assigned to specific fields or attributes of a newly created entity when the creation form is submitted. This feature helps streamline the data entry process and ensures consistency across newly created entities. |
| Alert on Creation Approval | A feature where an alert, notification, or confirmation message is triggered and displayed to relevant users or stakeholders when a newly created item or entity has been approved for further processing or use. |
| Set Values on Creation Approval | Automatically assigning or populating certain fields or attributes with predefined values when a newly created item or entity is approved for further processing or use. This feature ensures consistency and accuracy in data entry and reduces the need for manual intervention. |
| Alert on Creation Reject | Triggering a notification or alert when a newly created item or entity is rejected during the approval process. This alert informs relevant users or stakeholders that the creation request has been denied and may include additional information or instructions. |
| Set Values on Creation Reject | Automatically assigning or adjusting certain fields or attributes of a newly created item or entity when the creation request is rejected during the approval process. This feature ensures that the system handles rejected creation requests appropriately and maintains data consistency. |
| Alert on Creation Resubmit | Triggering a notification or alert when a user resubmits a creation request that was previously rejected. This alert informs relevant users or stakeholders that the creation request has been resubmitted for further consideration or processing. |
| Set Values on Creation Resubmit | Automatically assigning or updating certain fields or attributes of a creation request when it is resubmitted after being previously rejected. |
| Alert on Creation Discard | Triggering a notification or alert when a user discards or cancels the creation of a new item or entity without saving or submitting it. This alert informs users about the discarded changes and may include additional options or instructions. |
| Set Values on Creation Discard | Defining actions to handle data when a user decides to discard a creation process, ensuring data consistency and integrity. |
| Alert on Creation Abort | Triggering a notification or alert when a user aborts or cancels the creation of a new item or entity. |
| Set Values on Creation Abort | Defining actions to handle data when a user decides to abort or cancel the creation of a new item or entity. |
| Set Values on Update Copy | Automatically assigning or adjusting certain fields or attributes of a newly created item or entity when the creation request is rejected during the approval process. |
| Alert on Update Submit | Triggering a notification or alert when a user submits an update to an item or entity. |
| Set Values on Update Submit | Defining actions to automatically assign or adjust certain fields or attributes of an item or entity when an update is submitted |

| | |
|---|---|
| Alert on Update Approval | Triggers a notification or alert when an update to an item or entity is approved. |
| Set Values on Update Approval | Defining actions to automatically assign or adjust certain fields or attributes of an item or entity when an update is approved. |
| Alert on Update Reject | Triggers a notification or alert when an update to an item or entity is rejected. |
| Set Values on Update Reject | Automatically applies predefined actions to specific fields or attributes of an item or entity when an update is rejected. |
| Alert on Update Resubmit | Triggers a notification or alert when a user resubmits an update to an item or entity after it has been previously rejected. |
| Set Values on Update Resubmit | Defining actions to automatically assign or adjust certain fields or attributes of an item or entity when an update is resubmitted after it has been previously rejected. |
| Alert on Update Discard | Triggers a notification or alert when a user discards or cancels the changes made to an item or entity during an update process. |
| Set Values on Update Discard | Defining actions to automatically revert changes made to certain fields or attributes of an item or entity when the user discards updates. |
| Alert on Update Abort | Triggering a notification or alert when a user aborts or cancels the update process for an item or entity. This alert notifies relevant users or stakeholders about the aborted update and may include additional information or instructions. |
| Set Values on Update Abort | Defining actions to automatically revert changes made to certain fields or attributes of an item or entity when the user aborts the update process. |
| Alert on Deletion Submit | Triggering a notification or alert when a user submits a deletion request for an item or entity. |
| Set Values on Deletion Submit | Automatically adjust certain fields or attributes of an item or entity when a deletion request is submitted. |
| Alert on Deletion Approval | Triggering a notification or alert when a deletion request for an item or entity is approved. This alert notifies relevant users or stakeholders about the approved deletion |
| Set Values on Deletion Approval | Defining actions to automatically adjust certain fields or attributes of an item or entity when a deletion request is approved. |
| Alert on Deletion Reject | Triggering a notification or alert when a deletion request for an item or entity is rejected. |
| Set Values on Deletion Reject | Defining actions to automatically adjust certain fields or attributes of an item or entity when a deletion request is rejected. |
| Alert on Deletion Abort | Triggering a notification or alert when a user aborts or cancels the deletion process for an item or entity. |
| Set Values on Deletion Abort | Automatically adjust certain fields or attributes of an item or entity when the user aborts or cancels the deletion process. |
| Form Submit Caption | The label or text displayed on the button used to submit a form. |
| Form Submit and Next Caption | The label or text displayed on a button that both submits the current form and navigates to the next step or page in a multi-step form or process. |
| Submit Button Highlight | Highlighting the submit button typically involves changing its appearance to make it stand out visually, often to indicate that it's the primary action users should take to submit a form. |
| Create Submit Policy | Defining rules or guidelines that govern the submission process for forms or data within an application. |
| Create Submit Workflow | The sequence of steps or actions that occur when data or forms are |

| | submitted within an application. |
|---|---|
| Create Submit Condition | Defining the criteria or conditions that must be met before data can be successfully submitted within an application. These conditions help ensure the validity, accuracy, and completeness of the submitted data. |
| Create Form Submit | A reliable form submission process in your software development project, allowing users to submit data seamlessly and securely. |
| Create Form Submit and Next | Designing the form and implementing the logic for handling the submission and navigation to the next step. |
| Create Validate on Submit | Validation mechanism that triggers when a form is submitted in software development |
| Update Submit Policy | Revising the rules and procedures that govern the submission of data or forms within an application. This could include changes to validation criteria, submission workflows, authorization requirements, and error handling processes. |
| Update Submit Workflow | Revising the sequence of steps or actions that occur when data or forms are submitted within an application. |
| Update Submit Condition | Modifying the criteria or conditions that must be met before data can be successfully submitted within an application. |
| Update Form Submit | Revising the process through which users input and transmit data. This update typically includes changes to validation, error handling, and submission actions. |
| Update Form Submit and Next | Allows users to update an existing form and move to the next step |
| Update Validate on Submit | Allows validation at submission time |

*Table 4.1 Applet Properties*

## 4.2 Filters

A set of Boolean conditions used for decision making in the system.

**Click Add Applet Filter**
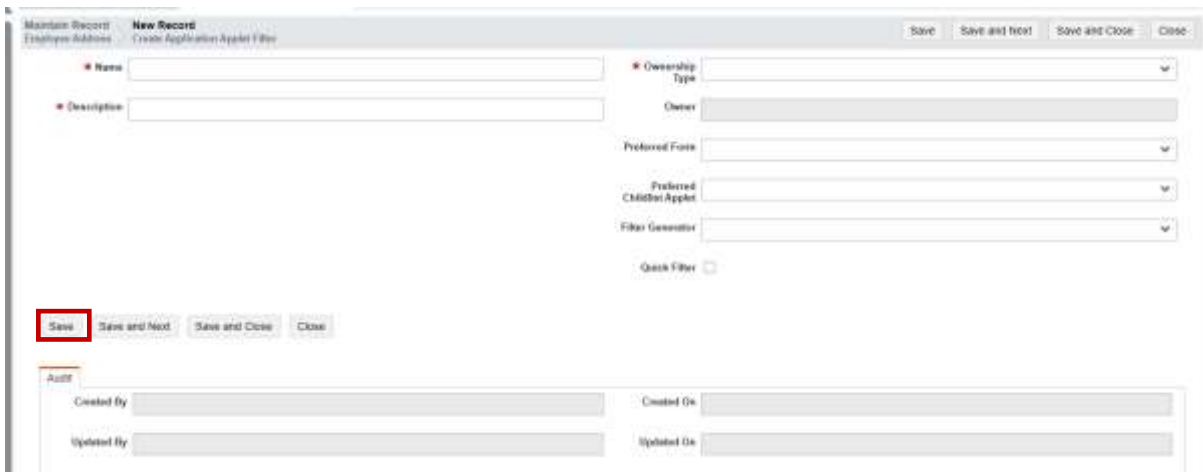


*Figure 4.2.1 Add Applet Filter*



*Figure 4.2.2 Applet Filter*

- **Name**: This field allows the user to enter a unique name for the filter
- **Description**: Allows a brief description of the filter
- **Ownership Type:** This field specifies if the filter should be used globally in the system or is specific to the user that created it.
- **Owner:**
- **Preferred Form:** This form allows the user to select a preferred form that best represents a record in the system. This field is optional.
- **Preferred Childlist Applet**: This field allows the user to select the preferred childlist applet. This field is optional.
- **Filter Generator:** A component that generates the condition for the filter. This field allows a user to select the filter generator.
- **Quick Filter:** Specifies if the filter will be available for a quick search in the end-user view.

**Click on save to proceed to the next tab.**

## 4.2.1 Filter Conditions

This tab allows the user to set conditions for the filter.
To build a filter,
Click on the And/Or to set a condition
Click on the + sign to add a condition
Click on the X sign to delete a condition
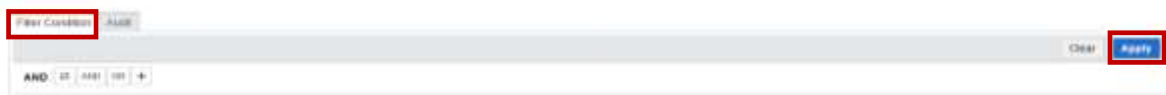Click on Apply to apply the set conditions.



*Figure 4.2.3 Filter Condition*

# 4.3 Set Values

This field allows the user to define the set values associated with this applet.
**Click on Add Applet Set Values**



*Figure 4.3.1 Add Set Values Form*



*Figure 4.3.2 Set Values*

- **Name:** This field allows a user to specify a unique name for set values
- **Description**: A brief description for the set values
- **Value Generator:** This field allows the user to select a value generator component. This field is optional

**Click on save to proceed to the next tab.**



*Figure 4.3.3 Set Values*

Click on the drop down to add a field
Select preferred option
Click on Apply.
Click on Close.

## 4.4 Alerts

This field defines alerts associated with this applet.



*Figure 4.4.1 Add Applet Alert*



*Figure 4.4.2 Applet Alert*

- **Name:** This field allows the user to enter a unique for the alert
- **Description:** A brief description for the alert
- **Sender:** This field allows the user to select a Java component for sending alerts
- **Recipient Policy:** This field allows the user to select a java component that determines recipient of the alerts.
- **Recipient Name Rule:** Rules that determine recipients
- **Recipient Contact Rule:** These are rules that specifies the means of sending the alerts E.g. via mail.

**Click on save and close.**