

Widgets

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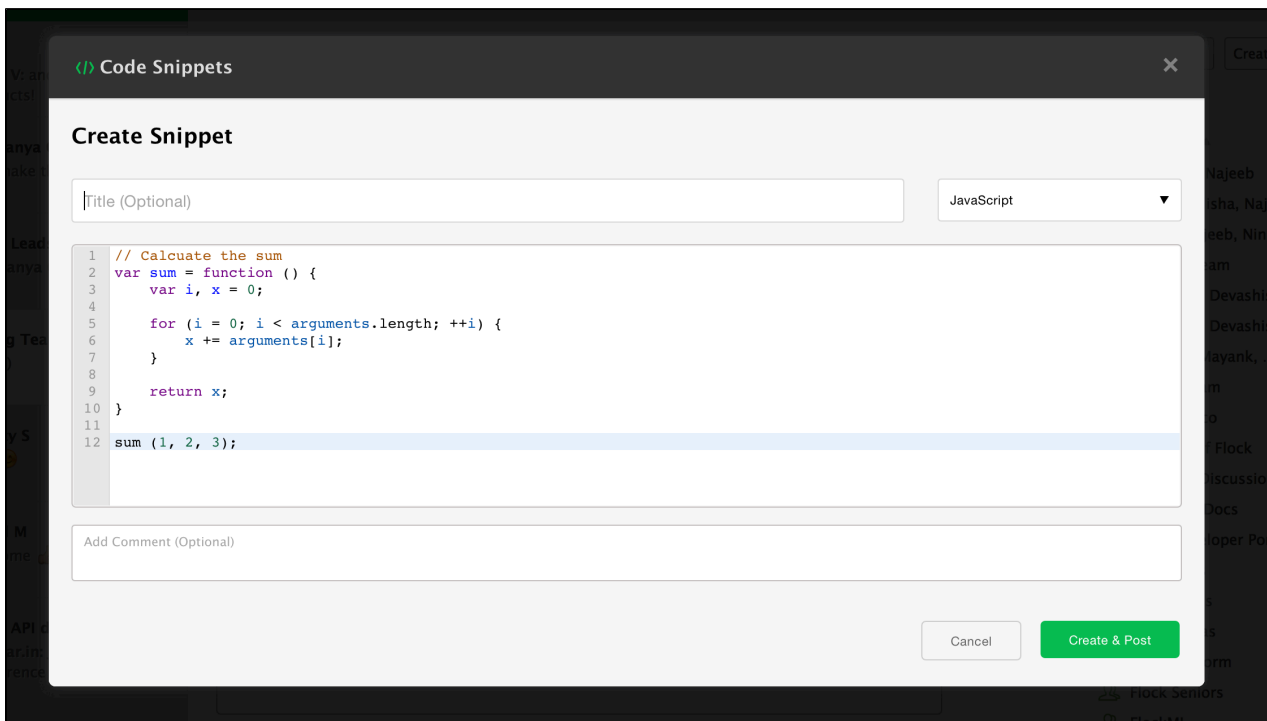
What are widgets?

Apps can use widgets to render a web application inside an iframe or a webview within Flock. Besides doing everything a normal webapp can, a widget can also interact with the Flock client hosting it. This allows you to extend Flock's UI in many wonderful and amazing ways.

There are three types of widgets that one can create in Flock.

Modal Widget

A Modal Widget appears as a blocking popup on desktop and as a full window web view on a mobile. For eg Notes, Code Snippets and Polls all use a modal widget to enable the user to create an attachment and an attachment picker button to launch the same. The image below depicts a modal widget on the desktop.



The image below depicts a modal widget on a mobile. Note that the modal occupies the entire mobile screen area.

Cancel

Code Snippets

Validate Email ID

```
function validateEmail() {  
  
    var email = document.getElementById('txtEmail');  
    var filter = /^[a-zA-Z0-9_\.\\-]+\@(([a-zA-Z0-9\\-])+\.  
  
    if (!filter.test(email.value)) {  
        alert('Please provide a valid email address');  
        email.focus;  
        return false;  
    }  
}
```

Sidebar Widget

A Sidebar Widget is shown below. Sidebar widgets are only available on the desktop client.

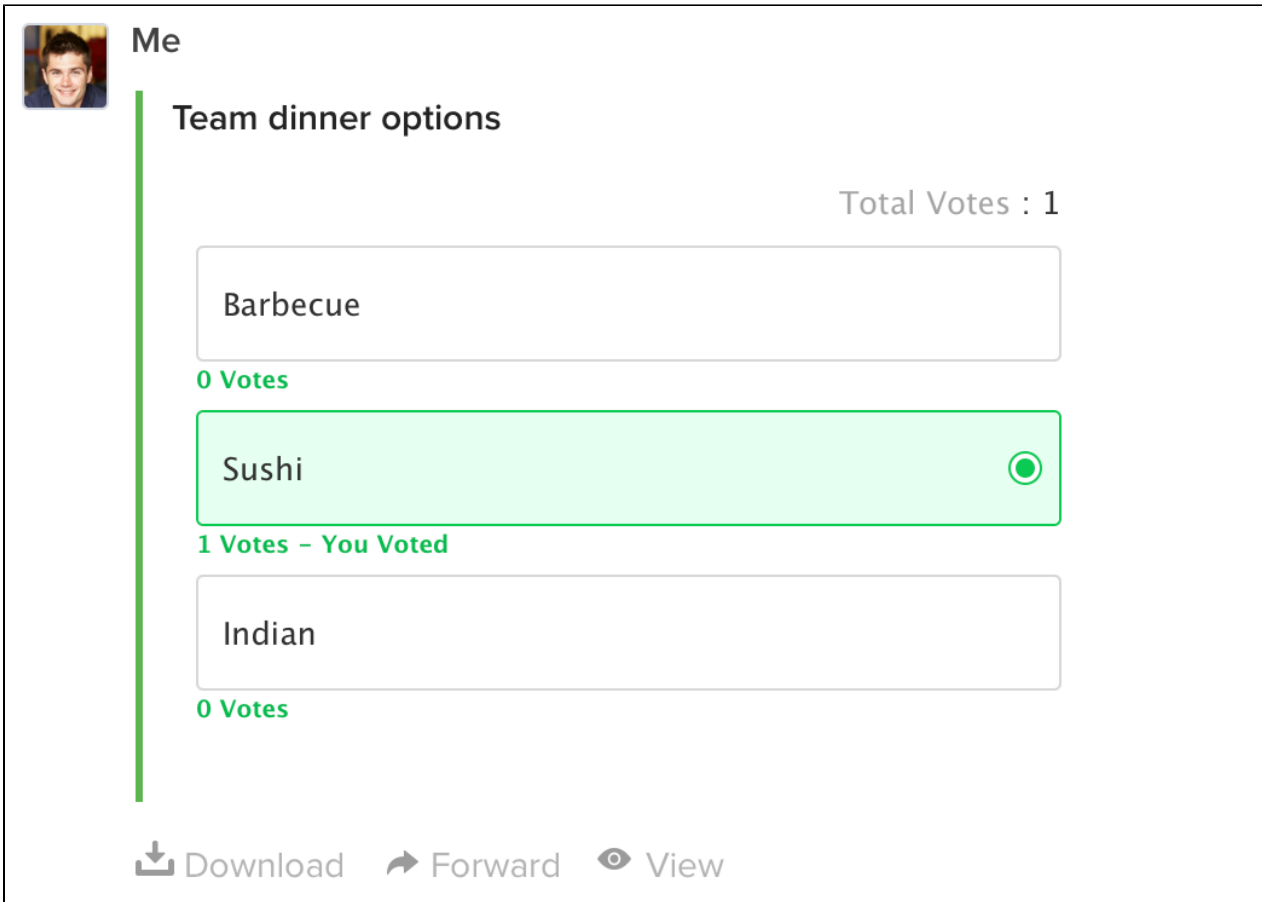
The screenshot displays a chat window with a sidebar widget. The chat area on the left shows a message with a timestamp of '9 MAY' and a phone number '703832127541249'. The sidebar widget on the right is titled 'To dos' and contains a search bar with 'Config Team' and a filter icon. Below the search bar, there are options for '+ New To-do List' and 'Completed Lists'. The widget is divided into two sections: 'Default' and 'TODO'. The 'Default' section lists 'call' and 'say hi' with checkboxes, and an 'Add a todo' button with a 'Show Completed' link. The 'TODO' section lists 'Call me again' with a checkbox and another 'Add a todo' button with a 'Show Completed' link.

For eg:

- The Todo app uses them to list all the todos for a given chat
- The Notes app uses them to list all the notes shared within a chat

Attachment Widget

An Attachment Widget appears inline in the chat pane on desktop, and opens inside a modal when clicked on a mobile. Check [Sending Attachments](#) for more details on sending an Attachment widget from your app.



The screenshot shows a chat interface with a user profile picture and the name 'Me'. A poll widget titled 'Team dinner options' is displayed. The poll has three options: 'Barbecue', 'Sushi', and 'Indian'. The 'Sushi' option is selected, indicated by a green radio button and a green highlight. Below the 'Sushi' option, it says '1 Votes - You Voted'. The 'Barbecue' and 'Indian' options each have '0 Votes'. The total number of votes is shown as 'Total Votes : 1'. At the bottom of the chat pane, there are three icons: 'Download', 'Forward', and 'View'.

For eg:

- The polls app uses an Attachment widget to show interactive polls right inside the chat pane
- Code Snippets and Notes app use an Attachment widget to show a preview of their content

How do I open a widget?

Widgets can be opened in one of two ways:

- Either you can configure the open widget [client action](#) for a slash command, launcher button, attachment button, etc.
- Or you can create an attachment widget by providing a widget URL (and dimensions, for desktop) inside a message [Attachment](#).

Adding a widget to an attachment

```
{
  "title": "attachment title",
  "description": "attachment description",
  "views": {
    "widget": { "src": "<widget url>", "width": 400, "height":
400 }
  }
}
```

When a widget is launched, Flock simply creates an iframe (on desktop) or in a webview (on mobile), and within that launches the widget URL specified by you.

What query parameters are appended to the widget URL?

These parameters provide context about how the widget was launched. Your widget URL can be a fully interactive web application.

Name	Description
<code>flockEvent</code>	The JSON of the event that created the widget, serialized into a string. For eg if the widget was triggered by a button press you will get the JSON of the <code>client.Pressbutton</code> event
<code>flockEventToken</code>	The event token that your app should use to authenticate the Flock user who opened this widget
<code>flockClient</code>	One of either <code>desktop</code> , <code>ios</code> or <code>android</code>
<code>flockWidgetType</code>	The widget type. It can be one of the following: <ul style="list-style-type: none">• <code>modal</code> – a modal widget. On mobile, this is the only value possible.• <code>sidebar</code> – a sidebar widget. Only used on desktop.• <code>inlineAttachment</code> – used when an attachment widget is opened inline in the chat pane. Only used on desktop.

Can my widget interact with the Flock client?

Yes. Flock provides a handy Javascript library - [flock.js](#) that you can include in your web app. Some of the things that you can do with `flock.js` are:

- Use the currently opened widget to open another widget. For eg launch a modal widget from a sidebar widget
- Launch the browser
- Close the current widget (only applicable for modal widgets)

See [flock.js](#) for more details.

My widget does not open up. What is going wrong?

If your widget doesn't load, ensure that:

- Your widget URL is over HTTPS. The desktop client on macOS and the web client will not load your widget unless it is over HTTPS.
- Your widget URL does not include `X-Frame-Options` or `Content-Security-Policy: frame-src` in the HTTP response. Widgets are loaded inside an iframe in the desktop and web clients, and presence of these headers will prevent them from loading under Flock.