Design Goals

Create a framework that allows others to easily create new drawing tools
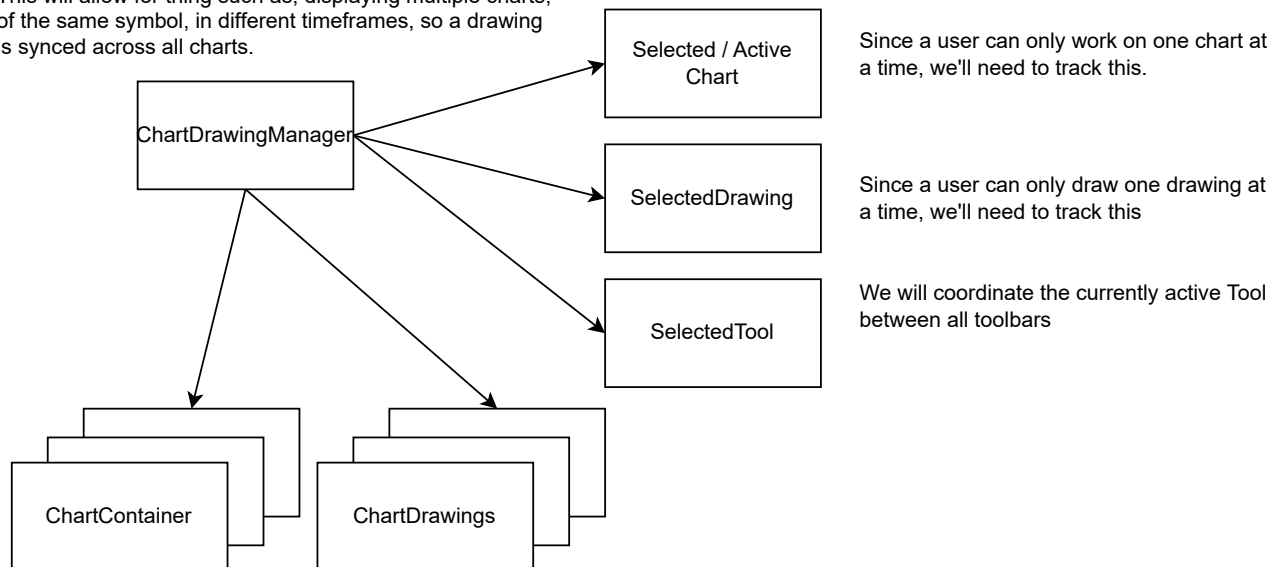Sync drawings between all charts
Extend allow others to hook into the framework via to build advanced custom solutions
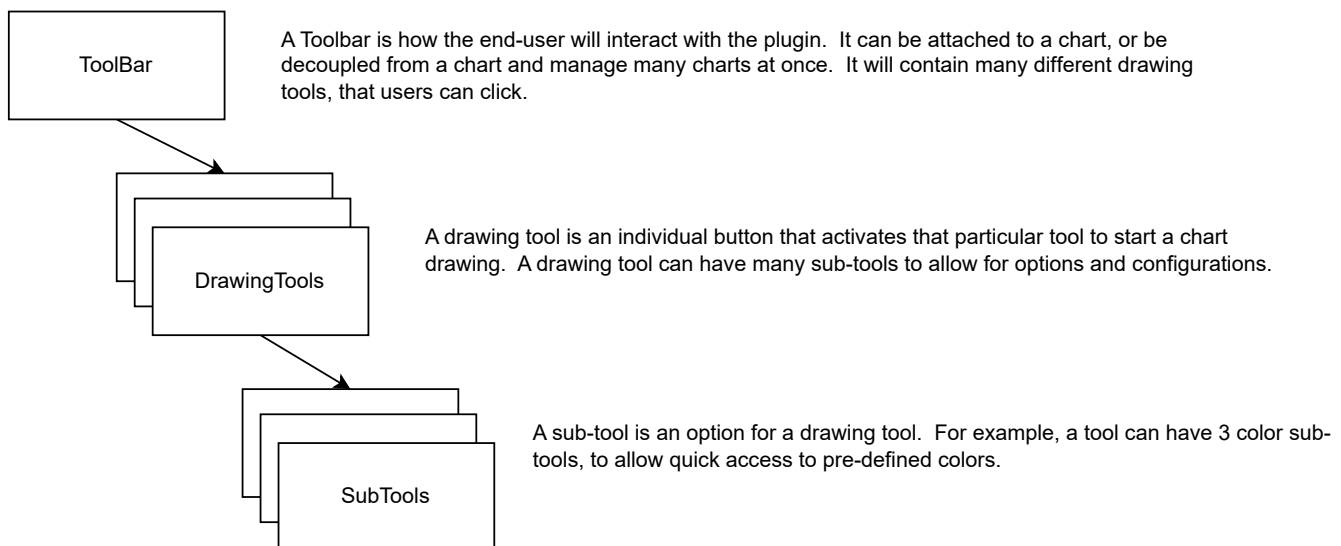
Architecture

There will be 2 main components to the plugin. A **ChartDrawingManager** and **Toolbar**

The chart manager will coordinate all the charts loaded on the screen, and the chart drawings, grouped by symbol, to the current tool/drawing/chart the user is manipulating. This will allow for thing such as, displaying multiple charts, of the same symbol, in different timeframes, so a drawing is synced across all charts.

ChartDrawingManager

Selected / Active Chart

Since a user can only work on one chart at a time, we'll need to track this.

SelectedDrawing

Since a user can only draw one drawing at a time, we'll need to track this

SelectedTool

We will coordinate the currently active Tool between all toolbars

ChartContainer

ChartDrawings

A ChartContainer attaches additional properties functions to a chart + series. The ChartDrawingManager will track and coordinate these charts currently loaded on screen.

A chart drawing includes properties of a drawing, such as id, coordinate values, styling, etc... Note this is different from the 'primate' that is the object drawn on a chart. The chart manager will manage these drawings and coordinate the charts to show the proper drawings.

ToolBar

A Toolbar is how the end-user will interact with the plugin. It can be attached to a chart, or be decoupled from a chart and manage many charts at once. It will contain many different drawing tools, that users can click.

DrawingTools

A drawing tool is an individual button that activates that particular tool to start a chart drawing. A drawing tool can have many sub-tools to allow for options and configurations.

SubTools

A sub-tool is an option for a drawing tool. For example, a tool can have 3 color sub-tools, to allow quick access to pre-defined colors.

Roadmap

V1
Framework & Basic Charting
	General Framework
	  Implement framework structure to handle upcoming features (chartDrawingManager),
	and to allow others to create their own drawings with minimal effort.
	
	Toolbar Container
	  Toolbar buttons, configuration options
	
	Basic Charting Functionality
	  Create / Modify / Delete drawings
	
	Saving / Loading
	  Configuration and Drawings

V1
Framework & Basic
Charting

General Framework
  Implement framework structure to handle upcoming features (chartDrawingManager),
and to allow others to create their own drawings with minimal effort.

Toolbar Container
  Toolbar buttons, configuration options

Basic Charting Functionality
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Saving / Loading
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V2
Advanced Features

Multi-Chart coordination
  * Real-time syncing of drawings between relevant charts.
  * Decouple toolbar from chart, optional floating toolbar to control all charts.
  * Allow drawings and charts to be grouped, so drawings will only be displayed to the appropriate group chart.

  Use Case: User wants to view a "TradeIdea". So the user creates a "TradeIdea" chart, and the chart will only
show/manage drawings for that trade idea.

Context Menu
  Right click a drawing to show options to configure the drawing, such as hide, delete, change colors, etc...

V3
Opening Up the
Framework

Extending the Toolbar for advanced integration (api)
  * Inject custom buttons into the toolbar
  * Coordinate events and communication between custom buttons

  Use Case: A user wants to 'order from the charts'. They can configure the toolbar to create
a "Create Order" horizontal line. The user will listen for events from the toolbar. When a
"Create Order" drawing is created, an event is passed back of the event. The user can then
create an order from their side, then pass back to the tool bar a "line" drawing that represents
the limit order, or delete the drawing line on failure.