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```
public class XXXProvider extends AbstractCustomWidgetProvider {
    /**
     * key
     */
    @Override
    public String getName() {
        return "demo";
    }

    /**
     *
     */
    @Override
    public String getType() {
        return "demo";
    }

    /**
     * icon
     */
    @Override
    public String getIcon() {
        return "http://webapi.amap.com/theme/v1.3/mapinfo_05.png";
    }

    /**
     * xtype
     */
    @Override
    public String getCustomTool() {
        return "bi.plugin.testwidget";
    }

    //
    .....
}
```

```

public class XXXProvider extends AbstractCustomWidgetProvider {

    @Override
    // html
    public String getEditPageHTML(XXContext context) {
        return `<div id="container"></div>`;
    }

    @Override
    public Atom editClient() {
        return XXXComponent.KEY;
    }

    @Override
    // html
    public String getPreviewPageHTML(XXContext context) {
        return `<div id="container"></div>`;
    }

    @Override
    public Atom previewClient() {
        return XXXComponent.KEY;
    }
}

```

js

1.

```

// data controlFilterParamsMap linkageParamsMap
// config customWidgetConfig customWidgetToolConfig
// closeSessionCallbackBI
// saveSessionCallback(json: Object): PromisejsonPromise saveSessionCallback({ renderTimes: renderTimes + 1 })
// extensionCallBackextensionCallBack('refresh')
function render (data, config, closeSessionCallback, saveSessionCallback, extensionCallBack) {

}
new BIPlugin().init(render)

```

2.js

```

const widget = BI.inherit(BI.Widget, {
    .....
    render: function () {
        // saveCustomWidgetToolConfig({...})
        const {
            customWidgetToolConfig = {},
            saveCustomWidgetToolConfig
        } = this.options;
        .....
    }
});
BI.shortcut('bi.plugin.testwidget', widget);

```

demo<https://github.com/finereport-overseas/plugin-bi-custom-widget-demo>