```
pip install cookiecutter
```

```
cookiecutter ./extension-cookiecutter-ts-4.0
```

```
[root@d96b028a262f data01]# rm -rf a
[root@d96b028a262f data01]# cookiecutter ./extension-cookiecutter-ts-4.0
  [1/10] Select kind
    1 - frontend
    2 - server
    3 - theme
    Choose from [1/2/3] (1): 1
  [2/10] author_name (My Name): wy
  [3/10] author_email (me@test.com): helloworld.dng@gmail.com
  [4/10] labextension_name (myextension): algoExtension
  [5/10] python_name (algoExtension): algeExtension
  [6/10] project_short_description (A JupyterLab extension.): algoExtension
  [7/10] has_settings (n): n
  [8/10] has_binder (n): n
  [9/10] test (y): y
  [10/10] repository (https://github.com/github_username/algoExtension):
[root@d96b028a262f data01]# ls
algeExtension  extension-cookiecutter-ts-4.0  extension-cookiecutter-ts-4.0.zip  extensions  install_extensions.sh  temp
[root@d96b028a262f data01]#
```

```
 1  import {
 2    JupyterFrontEnd,
 3    JupyterFrontEndPlugin
 4  } from '@jupyterlab/application';
 5
 6  import {
 7    ICommandPalette
 8  } from '@jupyterlab/apputils';
 9
10  import {
11    ReactWidget
12  } from '@jupyterlab/apputils';
13
14  import { IMainMenu } from '@jupyterlab/mainmenu';
15
16  /**
17   * Initialization data for the algo-extension extension.
18   */
19  const extension: JupyterFrontEndPlugin<void> = {
20    id: 'algo-extension',
21    autoStart: true,
22    requires: [ICommandPalette, IMainMenu],
```

```typescript
23    activate: (app: JupyterFrontEnd, palette: ICommandPalette,
   mainMenu: IMainMenu) => {
24      console.log('JupyterLab 插件 algo-extension 已激活！');
25
26      // 创建一个新的命令
27      const commandId = 'algo-extension:open';
28      app.commands.addCommand(commandId, {
29        label: '打开 Algo 扩展',
30        execute: () => {
31          openAlgoExtension(app, mainMenu);
32        }
33      });
34
35      // 添加命令到命令面板
36      palette.addItem({ command: commandId, category: 'Algo 扩展' });
37    }
38  };
39
40  function openAlgoExtension(app: JupyterFrontEnd, mainMenu:
   IMainMenu) {
41    // 创建一个 React 组件作为按钮点击后显示的内容
42    const content = new ReactWidget();
43    content.addClass('algo-extension-content');
44    content.node.appendChild(document.createElement('div'));
45    content.node.querySelector('div').textContent = '这是 Algo 扩展的内
   容';
46
47    // 将 React 组件添加到主区域
48    const widget = new Widget({ node: content.node });
49    widget.title.label = 'Algo 扩展';
50    widget.title.closable = true;
51
52    // 创建一个新的菜单项，将 React 组件添加到菜单中
53    const menu = mainMenu.addMenu({ menu: 'Algo 扩展', rank: 80 });
54    menu.addItem({ command: 'algo-extension:show-content' });
55
```

```
56      // 在菜单项点击时显示 React 组件
57      menu.itemClicked.connect(() => {
58        app.shell.add(widget, 'left');
59      });
60
61      // 创建一个新的命令，用于显示菜单项的内容
62      app.commands.addCommand('algo-extension:show-content', {
63        label: '显示内容',
64        execute: () => {
65          app.shell.add(widget, 'left');
66        }
67      });
68    }
69
70    export default extension;
71
```

备份 index.ts

```
1   import {
2     JupyterFrontEnd,
3     JupyterFrontEndPlugin
4   } from '@jupyterlab/application';
5
6   /**
7    * Initialization data for the algoExtension extension.
8    */
9   const plugin: JupyterFrontEndPlugin<void> = {
10    id: 'algoExtension:plugin',
11    description: 'algoExtension',
12    autoStart: true,
13    activate: (app: JupyterFrontEnd) => {
14      console.log('JupyterLab extension algoExtension is activated!');
15    }
16  };
```

```
17
18   export default plugin;
```

在插件的根目录下执行

```
1   jlpm install
```

报错

```
1   jlpm install
2   yarn install v1.21.1
3   info No lockfile found.
4   error Workspaces can only be enabled in private projects.
5   info Visit https://yarnpkg.com/en/docs/cli/install for documentation
    about this command.
```

使用npm安装依赖

```
1   npm install
```

```
1   jlpm build
```

```
1   jupyter labextension install .
```