

1 源代码

1.1 designer/child_setting.py

```
1  # -*- coding: utf-8 -*-
2
3  # Form implementation generated from reading ui file
4  ↪ 'child_setting.ui'
5  #
6  # Created by: PyQt5 UI code generator 5.15.10
7  #
8  # WARNING: Any manual changes made to this file will be lost
9  ↪ when pyuic5 is
10 # run again. Do not edit this file unless you know what you
11 ↪ are doing.
12
13
14 from PyQt5 import QtCore, QtGui, QtWidgets
15
16 class Ui_MainWindow(object):
17     def setupUi(self, MainWindow):
18         MainWindow.setObjectName("MainWindow")
19         MainWindow.resize(354, 366)
20         self.centralwidget = QtWidgets.QWidget(MainWindow)
21         self.centralwidget.setObjectName("centralwidget")
22         self.tabWidget =
23             ↪ QtWidgets.QTabWidget(self.centralwidget)
24         self.tabWidget.setGeometry(QtCore.QRect(10, 20, 321,
25             ↪ 251))
26         self.tabWidget.setObjectName("tabWidget")
27         self.tab = QtWidgets.QWidget()
28         self.tab.setObjectName("tab")
29         self.tab1_combobox = QtWidgets.QComboBox(self.tab)
30         self.tab1_combobox.setGeometry(QtCore.QRect(70, 0,
31             ↪ 171, 22))
32         self.tab1_combobox.setObjectName("tab1_combobox")
33         self.tab1_label = QtWidgets.QLabel(self.tab)
```

```
29         self.tab1_label.setGeometry(QRect(0, 30, 311,
        ↪ 191))
30         self.tab1_label.setObjectName("tab1_label")
31         self.tabWidget.addTab(self.tab, "")
32         self.tab_2 = QtWidgets.QWidget()
33         self.tab_2.setObjectName("tab_2")
34         self.tabWidget.addTab(self.tab_2, "")
35         self.pushButton =
        ↪ QtWidgets.QPushButton(self.centralwidget)
36         self.pushButton.setGeometry(QRect(230, 290, 75,
        ↪ 23))
37         self.pushButton.setObjectName("pushButton")
38         MainWindow.setCentralWidget(self.centralwidget)
39         self.menubar = QtWidgets.QMenuBar(MainWindow)
40         self.menubar.setGeometry(QRect(0, 0, 354, 23))
41         self.menubar.setObjectName("menubar")
42         MainWindow.setMenuBar(self.menubar)
43         self.statusbar = QtWidgets.QStatusBar(MainWindow)
44         self.statusbar.setObjectName("statusbar")
45         MainWindow.setStatusBar(self.statusbar)
46
47         self.retranslateUi(MainWindow)
48         QtCore.QMetaObject.connectSlotsByName(MainWindow)
49
50     def retranslateUi(self, MainWindow):
51         _translate = QtCore.QCoreApplication.translate
52         MainWindow.setWindowTitle(_translate("MainWindow",
        ↪ "MainWindow"))
53         self.tab1_label.setText(_translate("MainWindow",
        ↪ "TextLabel"))
54         self.tabWidget.setTabText(self.tabWidget.indexOf(self
        ↪ .tab), _translate("MainWindow", "Tab
        ↪ 1"))
55         self.tabWidget.setTabText(self.tabWidget.indexOf(self
        ↪ .tab_2), _translate("MainWindow", "Tab
        ↪ 2"))
56         self.pushButton.setText(_translate("MainWindow",
        ↪ "PushButton"))
57
```

```
58
59 if __name__ == "__main__":
60     import sys
61     app = QtWidgets.QApplication(sys.argv)
62     MainWindow = QtWidgets.QMainWindow()
63     ui = Ui_MainWindow()
64     ui.setupUi(MainWindow)
65     MainWindow.show()
66     sys.exit(app.exec_())
```

1.2 designer/child_setting.ui

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <ui version="4.0">
3     <class>MainWindow</class>
4     <widget class="QMainWindow" name="MainWindow">
5         <property name="geometry">
6             <rect>
7                 <x>0</x>
8                 <y>0</y>
9                 <width>354</width>
10                <height>366</height>
11            </rect>
12        </property>
13        <property name="windowTitle">
14            <string>MainWindow</string>
15        </property>
16        <widget class="QWidget" name="centralwidget">
17            <widget class="QTabWidget" name="tabWidget">
18                <property name="geometry">
19                    <rect>
20                        <x>10</x>
21                        <y>20</y>
22                        <width>321</width>
23                        <height>251</height>
24                    </rect>
25                </property>
26                <widget class="QWidget" name="tab">
```

```
27     <attribute name="title">
28         <string>Tab 1</string>
29     </attribute>
30     <widget class="QComboBox" name="tab1_combobox">
31         <property name="geometry">
32             <rect>
33                 <x>70</x>
34                 <y>0</y>
35                 <width>171</width>
36                 <height>22</height>
37             </rect>
38         </property>
39     </widget>
40     <widget class="QLabel" name="tab1_label">
41         <property name="geometry">
42             <rect>
43                 <x>0</x>
44                 <y>30</y>
45                 <width>311</width>
46                 <height>191</height>
47             </rect>
48         </property>
49         <property name="text">
50             <string>TextLabel</string>
51         </property>
52     </widget>
53 </widget>
54 <widget class="QWidget" name="tab_2">
55     <attribute name="title">
56         <string>Tab 2</string>
57     </attribute>
58 </widget>
59 </widget>
60 <widget class="QPushButton" name="pushButton">
61     <property name="geometry">
62         <rect>
63             <x>230</x>
64             <y>290</y>
65             <width>75</width>
```

```

66         <height>23</height>
67     </rect>
68 </property>
69 <property name="text">
70     <string>PushButton</string>
71 </property>
72 </widget>
73 </widget>
74 <widget class="QMenuBar" name="menubar">
75     <property name="geometry">
76         <rect>
77             <x>0</x>
78             <y>0</y>
79             <width>354</width>
80             <height>23</height>
81         </rect>
82     </property>
83 </widget>
84 <widget class="QStatusBar" name="statusbar"/>
85 </widget>
86 <resources/>
87 <connections/>
88 </ui>

```

1.3 designer/child_test.py

```

1  # -*- coding: utf-8 -*-
2
3  # Form implementation generated from reading ui file
4  ↳ 'child_test.ui'
5  #
6  # Created by: PyQt5 UI code generator 5.9.2
7  #
8  # WARNING! All changes made in this file will be lost!
9
10 from PyQt5 import QtCore, QtGui, QtWidgets
11
12 class Ui_Form(object):

```

```
12     def setupUi(self, Form):
13         Form.setObjectName("Form")
14         Form.resize(400, 310)
15         self.tabWidget = QtWidgets.QTabWidget(Form)
16         self.tabWidget.setGeometry(QtCore.QRect(10, 10, 381,
17             ↪ 261))
18         self.tabWidget.setObjectName("tabWidget")
19         self.tab = QtWidgets.QWidget()
20         self.tab.setObjectName("tab")
21         self.layoutWidget = QtWidgets.QWidget(self.tab)
22         self.layoutWidget.setGeometry(QtCore.QRect(0, 10, 371,
23             ↪ 211))
24         self.layoutWidget.setObjectName("layoutWidget")
25         self.horizontalLayout_2 =
26             ↪ QtWidgets.QHBoxLayout(self.layoutWidget)
27         self.horizontalLayout_2.setContentsMargins(0, 0, 0, 0)
28         self.horizontalLayout_2.setObjectName("horizontalLayout_2")
29         spacerItem = QtWidgets.QSpacerItem(40, 20,
30             ↪ QtWidgets.QSizePolicy.Expanding,
31             ↪ QtWidgets.QSizePolicy.Minimum)
32         self.horizontalLayout_2.addItem(spacerItem)
33         self.verticalLayout_2 = QtWidgets.QVBoxLayout()
34         self.verticalLayout_2.setObjectName("verticalLayout_2")
35         self.verticalLayout = QtWidgets.QVBoxLayout()
36         self.verticalLayout.setObjectName("verticalLayout")
37         self.horizontalLayout = QtWidgets.QHBoxLayout()
38         self.horizontalLayout.setObjectName("horizontalLayout")
39         spacerItem1 = QtWidgets.QSpacerItem(30, 20,
40             ↪ QtWidgets.QSizePolicy.Maximum,
41             ↪ QtWidgets.QSizePolicy.Minimum)
42         self.horizontalLayout.addItem(spacerItem1)
43         self.tab1_combobox =
44             ↪ QtWidgets.QComboBox(self.layoutWidget)
45         sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePolicy_
46             ↪ 1,
47             ↪ 1,
48             ↪ QtWidgets.QSizePolicy.MinimumExpanding,
49             ↪ QtWidgets.QSizePolicy.Fixed)
```

```
38         sizePolicy.setHorizontalStretch(0)
39         sizePolicy.setVerticalStretch(0)
40         sizePolicy.setHeightForWidth(self.tab1_combobox.sizeP
    ↪ olicy().hasHeightForWidth())
41         self.tab1_combobox.setSizePolicy(sizePolicy)
42         self.tab1_combobox.setObjectName("tab1_combobox")
43         self.horizontalLayout.addWidget(self.tab1_combobox)
44         spacerItem2 = QtWidgets.QSpacerItem(30, 20,
    ↪ QtWidgets.QSizePolicy.Maximum,
    ↪ QtWidgets.QSizePolicy.Minimum)
45         self.horizontalLayout.addItem(spacerItem2)
46         self.verticalLayout.addLayout(self.horizontalLayout)
47         spacerItem3 = QtWidgets.QSpacerItem(40, 20,
    ↪ QtWidgets.QSizePolicy.Expanding,
    ↪ QtWidgets.QSizePolicy.Minimum)
48         self.verticalLayout.addItem(spacerItem3)
49         self.verticalLayout_2.addLayout(self.verticalLayout)
50         self.tab1_label = QtWidgets.QLabel(self.layoutWidget)
51         sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol
    ↪ icy.Ignored,
    ↪ QtWidgets.QSizePolicy.Fixed)
52         sizePolicy.setHorizontalStretch(0)
53         sizePolicy.setVerticalStretch(0)
54         sizePolicy.setHeightForWidth(self.tab1_label.sizePoli
    ↪ cy().hasHeightForWidth())
55         self.tab1_label.setSizePolicy(sizePolicy)
56         self.tab1_label.setMinimumSize(QtCore.QSize(256, 144))
57         self.tab1_label.setMaximumSize(QtCore.QSize(256, 144))
58         self.tab1_label.setAlignment(QtCore.Qt.AlignCenter)
59         self.tab1_label.setObjectName("tab1_label")
60         self.verticalLayout_2.addWidget(self.tab1_label)
61         self.horizontalLayout_2.addLayout(self.verticalLayout
    ↪ _2)
62         spacerItem4 = QtWidgets.QSpacerItem(40, 20,
    ↪ QtWidgets.QSizePolicy.Expanding,
    ↪ QtWidgets.QSizePolicy.Minimum)
63         self.horizontalLayout_2.addItem(spacerItem4)
64         self.tabWidget.addTab(self.tab, "")
65         self.tab_2 = QtWidgets.QWidget()
```

```
66     self.tab_2.setObjectName("tab_2")
67     self.layoutWidget_2 = QtWidgets.QWidget(self.tab_2)
68     self.layoutWidget_2.setGeometry(QtCore.QRect(0, 10,
        ↪ 371, 211))
69     self.layoutWidget_2.setObjectName("layoutWidget_2")
70     self.horizontalLayout_7 =
        ↪ QtWidgets.QHBoxLayout(self.layoutWidget_2)
71     self.horizontalLayout_7.setContentsMargins(0, 0, 0, 0)
72     self.horizontalLayout_7.setObjectName("horizontalLayo_
        ↪ ut_7")
73     spacerItem5 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
74     self.horizontalLayout_7.addItem(spacerItem5)
75     self.verticalLayout_5 = QtWidgets.QVBoxLayout()
76     self.verticalLayout_5.setObjectName("verticalLayout_5_
        ↪ ")
77     self.verticalLayout_6 = QtWidgets.QVBoxLayout()
78     self.verticalLayout_6.setObjectName("verticalLayout_6_
        ↪ ")
79     self.horizontalLayout_8 = QtWidgets.QHBoxLayout()
80     self.horizontalLayout_8.setObjectName("horizontalLayo_
        ↪ ut_8")
81     spacerItem6 = QtWidgets.QSpacerItem(30, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
82     self.horizontalLayout_8.addItem(spacerItem6)
83     self.tab1_combobox_3 =
        ↪ QtWidgets.QComboBox(self.layoutWidget_2)
84     sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol_
        ↪ icy.MinimumExpanding,
        ↪ QtWidgets.QSizePolicy.Fixed)
85     sizePolicy.setHorizontalStretch(0)
86     sizePolicy.setVerticalStretch(0)
87     sizePolicy.setHeightForWidth(self.tab1_combobox_3.siz_
        ↪ ePolicy().hasHeightForWidth())
88     self.tab1_combobox_3.setSizePolicy(sizePolicy)
89     self.tab1_combobox_3.setObjectName("tab1_combobox_3")
```



```
90         self.horizontalLayout_8.addWidget(self.tab1_combobox_1
91         ↪ 3)
92     spacerItem7 = QtWidgets.QSpacerItem(30, 20,
93     ↪ QtWidgets.QSizePolicy.Maximum,
94     ↪ QtWidgets.QSizePolicy.Minimum)
95     self.horizontalLayout_8.addItem(spacerItem7)
96     self.verticalLayout_6.addLayout(self.horizontalLayout_8)
97     ↪ _8)
98     spacerItem8 = QtWidgets.QSpacerItem(40, 20,
99     ↪ QtWidgets.QSizePolicy.Expanding,
100    ↪ QtWidgets.QSizePolicy.Minimum)
101    self.verticalLayout_6.addItem(spacerItem8)
102    self.verticalLayout_5.addLayout(self.verticalLayout_6)
103    self.tab1_label_3 =
104    ↪ QtWidgets.QLabel(self.layoutWidget_2)
105    sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePolicy_
106    ↪ icky.Ignored,
107    ↪ QtWidgets.QSizePolicy.Fixed)
108    sizePolicy.setHorizontalStretch(0)
109    sizePolicy.setVerticalStretch(0)
110    sizePolicy.setHeightForWidth(self.tab1_label_3.sizePo_
111    ↪ licy().hasHeightForWidth())
112    self.tab1_label_3.setSizePolicy(sizePolicy)
113    self.tab1_label_3.setMinimumSize(QtCore.QSize(256,
114    ↪ 144))
115    self.tab1_label_3.setMaximumSize(QtCore.QSize(256,
116    ↪ 144))
117    self.tab1_label_3.setAlignment(QtCore.Qt.AlignCenter)
118    self.tab1_label_3.setObjectName("tab1_label_3")
119    self.verticalLayout_5.addWidget(self.tab1_label_3)
120    self.horizontalLayout_7.addLayout(self.verticalLayout_
121    ↪ 5)
122    spacerItem9 = QtWidgets.QSpacerItem(40, 20,
123    ↪ QtWidgets.QSizePolicy.Expanding,
124    ↪ QtWidgets.QSizePolicy.Minimum)
125    self.horizontalLayout_7.addItem(spacerItem9)
126    self.tabWidget.addTab(self.tab_2, "")
127    self.tab_3 = QtWidgets.QWidget()
128    self.tab_3.setObjectName("tab_3")
```

```

114         self.layoutWidget_3 = QtWidgets.QWidget(self.tab_3)
115         self.layoutWidget_3.setGeometry(QtCore.QRect(0, 10,
116             ↪ 371, 211))
117         self.layoutWidget_3.setObjectName("layoutWidget_3")
118         self.horizontalLayout_4 =
119             ↪ QtWidgets.QHBoxLayout(self.layoutWidget_3)
120         self.horizontalLayout_4.setContentsMargins(0, 0, 0, 0)
121         self.horizontalLayout_4.setObjectName("horizontalLayo_
122             ↪ ut_4")
123         spacerItem10 = QtWidgets.QSpacerItem(40, 20,
124             ↪ QtWidgets.QSizePolicy.Expanding,
125             ↪ QtWidgets.QSizePolicy.Minimum)
126         self.horizontalLayout_4.addItem(spacerItem10)
127         self.verticalLayout_7 = QtWidgets.QVBoxLayout()
128         self.verticalLayout_7.setObjectName("verticalLayout_7_
129             ↪ ")
130         self.verticalLayout_8 = QtWidgets.QVBoxLayout()
131         self.verticalLayout_8.setObjectName("verticalLayout_8_
132             ↪ ")
133         self.horizontalLayout_9 = QtWidgets.QHBoxLayout()
134         self.horizontalLayout_9.setObjectName("horizontalLayo_
135             ↪ ut_9")
136         spacerItem11 = QtWidgets.QSpacerItem(30, 20,
137             ↪ QtWidgets.QSizePolicy.Maximum,
138             ↪ QtWidgets.QSizePolicy.Minimum)
139         self.horizontalLayout_9.addItem(spacerItem11)
140         self.tab1_combobox_4 =
141             ↪ QtWidgets.QComboBox(self.layoutWidget_3)
142         sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol_
143             ↪ icy.MinimumExpanding,
144             ↪ QtWidgets.QSizePolicy.Fixed)
145         sizePolicy.setHorizontalStretch(0)
146         sizePolicy.setVerticalStretch(0)
147         sizePolicy.setHeightForWidth(self.tab1_combobox_4.siz_
148             ↪ ePolicy().hasHeightForWidth())
149         self.tab1_combobox_4.setSizePolicy(sizePolicy)
150         self.tab1_combobox_4.setObjectName("tab1_combobox_4")
151         self.horizontalLayout_9.addWidget(self.tab1_combobox_
152             ↪ 4)

```

```
138         spacerItem12 = QtWidgets.QSpacerItem(30, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
139     self.horizontalLayout_9.addItem(spacerItem12)
140     self.verticalLayout_8.addLayout(self.horizontalLayout_
        ↪ _9)
141     spacerItem13 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
142     self.verticalLayout_8.addItem(spacerItem13)
143     self.verticalLayout_7.addLayout(self.verticalLayout_8)
144     self.tab1_label_4 =
        ↪ QtWidgets.QLabel(self.layoutWidget_3)
145     sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol
        ↪ icy.Ignored,
        ↪ QtWidgets.QSizePolicy.Fixed)
146     sizePolicy.setHorizontalStretch(0)
147     sizePolicy.setVerticalStretch(0)
148     sizePolicy.setHeightForWidth(self.tab1_label_4.sizePo
        ↪ licy().hasHeightForWidth())
149     self.tab1_label_4.setSizePolicy(sizePolicy)
150     self.tab1_label_4.setMinimumSize(QtCore.QSize(256,
        ↪ 144))
151     self.tab1_label_4.setMaximumSize(QtCore.QSize(256,
        ↪ 144))
152     self.tab1_label_4.setAlignment(QtCore.Qt.AlignCenter)
153     self.tab1_label_4.setObjectName("tab1_label_4")
154     self.verticalLayout_7.addWidget(self.tab1_label_4)
155     self.horizontalLayout_4.addLayout(self.verticalLayout_
        ↪ _7)
156     spacerItem14 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
157     self.horizontalLayout_4.addItem(spacerItem14)
158     self.tabWidget.addTab(self.tab_3, "")
159     self.tab_4 = QtWidgets.QWidget()
160     self.tab_4.setObjectName("tab_4")
161     self.layoutWidget1 = QtWidgets.QWidget(self.tab_4)
```

```
162         self.layoutWidget1.setGeometry(QRect(0, 10,
        ↪ 371, 211))
163         self.layoutWidget1.setObjectName("layoutWidget1")
164         self.horizontalLayout_13 =
        ↪ QtWidgets.QHBoxLayout(self.layoutWidget1)
165         self.horizontalLayout_13.setContentsMargins(0, 0, 0,
        ↪ 0)
166         self.horizontalLayout_13.setObjectName("horizontalLay_
        ↪ out_13")
167         spacerItem15 = QtWidgets.QSpacerItem(40, 40,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
168         self.horizontalLayout_13.addItem(spacerItem15)
169         self.verticalLayout_13 = QtWidgets.QVBoxLayout()
170         self.verticalLayout_13.setObjectName("verticalLayout_
        ↪ 13")
171         self.verticalLayout_14 = QtWidgets.QVBoxLayout()
172         self.verticalLayout_14.setObjectName("verticalLayout_
        ↪ 14")
173         self.horizontalLayout_14 = QtWidgets.QHBoxLayout()
174         self.horizontalLayout_14.setObjectName("horizontalLay_
        ↪ out_14")
175         spacerItem16 = QtWidgets.QSpacerItem(31, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
176         self.horizontalLayout_14.addItem(spacerItem16)
177         self.tab1_combobox_7 =
        ↪ QtWidgets.QComboBox(self.layoutWidget1)
178         sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol_
        ↪ icky.MinimumExpanding,
        ↪ QtWidgets.QSizePolicy.Fixed)
179         sizePolicy.setHorizontalStretch(0)
180         sizePolicy.setVerticalStretch(0)
181         sizePolicy.setHeightForWidth(self.tab1_combobox_7.siz_
        ↪ ePolicy().hasHeightForWidth())
182         self.tab1_combobox_7.setSizePolicy(sizePolicy)
183         self.tab1_combobox_7.setMinimumSize(QtCore.QSize(160,
        ↪ 0))
184         self.tab1_combobox_7.setObjectName("tab1_combobox_7")
```

```
185         self.horizontalLayout_14.addWidget(self.tab1_combobox_1
        ↪ _7)
186         spacerItem17 = QtWidgets.QSpacerItem(31, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
187         self.horizontalLayout_14.addItem(spacerItem17)
188         self.verticalLayout_14.addLayout(self.horizontalLayout_1
        ↪ t_14)
189         spacerItem18 = QtWidgets.QSpacerItem(256, 55,
        ↪ QtWidgets.QSizePolicy.Minimum,
        ↪ QtWidgets.QSizePolicy.Minimum)
190         self.verticalLayout_14.addItem(spacerItem18)
191         self.verticalLayout_13.addLayout(self.verticalLayout_1
        ↪ 14)
192         self.progressBar =
        ↪ QtWidgets.QProgressBar(self.layoutWidget1)
193         self.progressBar.setProperty("value", 0)
194         self.progressBar.setTextVisible(False)
195         self.progressBar.setObjectName("progressBar")
196         self.verticalLayout_13.addWidget(self.progressBar)
197         spacerItem19 = QtWidgets.QSpacerItem(40, 60,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
198         self.verticalLayout_13.addItem(spacerItem19)
199         self.horizontalLayout_13.addLayout(self.verticalLayout_1
        ↪ t_13)
200         spacerItem20 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
201         self.horizontalLayout_13.addItem(spacerItem20)
202         self.tabWidget.addTab(self.tab_4, "")
203         self.OK = QtWidgets.QPushButton(Form)
204         self.OK.setGeometry(QtCore.QRect(260, 280, 111, 23))
205         self.OK.setObjectName("OK")
206
207         self.retranslateUi(Form)
208         self.tabWidget.setCurrentIndex(0)
209         QtCore.QMetaObject.connectSlotsByName(Form)
210
```

```

211     def retranslateUi(self, Form):
212         _translate = QtCore.QCoreApplication.translate
213         Form.setWindowTitle(_translate("Form", "Form"))
214         self.tab1_label.setText(_translate("Form",
215             ↪ "TextLabel"))
216         self.tabWidget.setTabText(self.tabWidget.indexOf(self
217             ↪ .tab), _translate("Form",
218             ↪ "行为"))
219         self.tab1_label_3.setText(_translate("Form",
220             ↪ "TextLabel"))
221         self.tabWidget.setTabText(self.tabWidget.indexOf(self
222             ↪ .tab_2), _translate("Form",
223             ↪ "面部"))
224         self.tab1_label_4.setText(_translate("Form",
225             ↪ "TextLabel"))
226         self.tabWidget.setTabText(self.tabWidget.indexOf(self
227             ↪ .tab_3), _translate("Form",
228             ↪ "眼睛"))
229         self.tabWidget.setTabText(self.tabWidget.indexOf(self
230             ↪ .tab_4), _translate("Form",
231             ↪ "麦克风"))
232         self.OK.setText(_translate("Form", " 确认"))

```

1.4 designer/child_test.ui

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <ui version="4.0">
3      <class>Form</class>
4      <widget class="QWidget" name="Form">
5          <property name="geometry">
6              <rect>
7                  <x>0</x>
8                  <y>0</y>
9                  <width>400</width>
10                 <height>310</height>
11             </rect>
12         </property>

```

```
13     <property name="windowTitle">
14         <string>Form</string>
15     </property>
16     <widget class="QTabWidget" name="tabWidget">
17         <property name="geometry">
18             <rect>
19                 <x>10</x>
20                 <y>10</y>
21                 <width>381</width>
22                 <height>261</height>
23             </rect>
24         </property>
25         <property name="currentIndex">
26             <number>0</number>
27         </property>
28         <widget class="QWidget" name="tab">
29             <attribute name="title">
30                 <string>行为</string>
31             </attribute>
32             <widget class="QWidget" name="layoutWidget">
33                 <property name="geometry">
34                     <rect>
35                         <x>0</x>
36                         <y>10</y>
37                         <width>371</width>
38                         <height>211</height>
39                     </rect>
40                 </property>
41                 <layout class="QHBoxLayout" name="horizontalLayout_2">
42                     <item>
43                         <spacer name="horizontalSpacer_10">
44                             <property name="orientation">
45                                 <enum>Qt::Horizontal</enum>
46                             </property>
47                             <property name="sizeHint" stdset="0">
48                                 <size>
49                                     <width>40</width>
50                                     <height>20</height>
51                                 </size>
```

```

52         </property>
53     </spacer>
54 </item>
55 <item>
56     <layout class="QVBoxLayout" name="verticalLayout_2">
57         <item>
58             <layout class="QVBoxLayout" name="verticalLayout">
59                 <item>
60                     <layout class="QHBoxLayout"
61                     ↪ name="horizontalLayout">
62                         <item>
63                             <spacer name="horizontalSpacer">
64                                 <property name="orientation">
65                                     <enum>Qt::Horizontal</enum>
66                                 </property>
67                                 <property name="sizeType">
68                                     <enum>QSizePolicy::Maximum</enum>
69                                 </property>
70                                 <property name="sizeHint" stdset="0">
71                                     <size>
72                                         <width>30</width>
73                                         <height>20</height>
74                                     </size>
75                                 </property>
76                             </spacer>
77                         </item>
78                         <item>
79                             <widget class="QComboBox" name="tab1_combobox">
80                                 <property name="sizePolicy">
81                                     <sizepolicy hsizeType="MinimumExpanding"
82                                     ↪ vsizeType="Fixed">
83                                         <horstretch>0</horstretch>
84                                         <verstretch>0</verstretch>
85                                     </sizepolicy>
86                                 </property>
87                             </widget>
88                         </item>
89                         <item>
90                             <spacer name="horizontalSpacer_2">

```



```
89         <property name="orientation">
90             <enum>Qt::Horizontal</enum>
91         </property>
92         <property name="sizeType">
93             <enum>QSizePolicy::Maximum</enum>
94         </property>
95         <property name="sizeHint" stdset="0">
96             <size>
97                 <width>30</width>
98                 <height>20</height>
99             </size>
100         </property>
101     </spacer>
102 </item>
103 </layout>
104 </item>
105 <item>
106     <spacer name="horizontalSpacer_9">
107         <property name="orientation">
108             <enum>Qt::Horizontal</enum>
109         </property>
110         <property name="sizeHint" stdset="0">
111             <size>
112                 <width>40</width>
113                 <height>20</height>
114             </size>
115         </property>
116     </spacer>
117 </item>
118 </layout>
119 </item>
120 <item>
121     <widget class="QLabel" name="tab1_label">
122         <property name="sizePolicy">
123             <sizepolicy hsiptype="Ignored" vsizetype="Fixed">
124                 <horstretch>0</horstretch>
125                 <verstretch>0</verstretch>
126             </sizepolicy>
127         </property>
```

```
128         <property name="minimumSize">
129             <size>
130                 <width>256</width>
131                 <height>144</height>
132             </size>
133         </property>
134         <property name="maximumSize">
135             <size>
136                 <width>256</width>
137                 <height>144</height>
138             </size>
139         </property>
140         <property name="text">
141             <string>TextLabel</string>
142         </property>
143         <property name="alignment">
144             <set>Qt::AlignCenter</set>
145         </property>
146     </widget>
147 </item>
148 </layout>
149 </item>
150 <item>
151     <spacer name="horizontalSpacer_11">
152         <property name="orientation">
153             <enum>Qt::Horizontal</enum>
154         </property>
155         <property name="sizeHint" stdset="0">
156             <size>
157                 <width>40</width>
158                 <height>20</height>
159             </size>
160         </property>
161     </spacer>
162 </item>
163 </layout>
164 </widget>
165 </widget>
166 <widget class="QWidget" name="tab_2">
```

[illegible]

```

205         <enum>QSizePolicy::Maximum</enum>
206     </property>
207     <property name="sizeHint" stdset="0">
208         <size>
209             <width>30</width>
210             <height>20</height>
211         </size>
212     </property>
213 </spacer>
214 </item>
215 <item>
216     <widget class="QComboBox" name="tab1_combobox_3">
217         <property name="sizePolicy">
218             <sizepolicy hsizeType="MinimumExpanding"
219                 ↪ vsizeType="Fixed">
220                 <horstretch>0</horstretch>
221                 <verstretch>0</verstretch>
222             </sizepolicy>
223         </property>
224     </widget>
225 </item>
226 <item>
227     <spacer name="horizontalSpacer_17">
228         <property name="orientation">
229             <enum>Qt::Horizontal</enum>
230         </property>
231         <property name="sizeType">
232             <enum>QSizePolicy::Maximum</enum>
233         </property>
234         <property name="sizeHint" stdset="0">
235             <size>
236                 <width>30</width>
237                 <height>20</height>
238             </size>
239         </property>
240     </spacer>
241 </item>
242 </layout>
</item>

```

```
243     <item>
244         <spacer name="horizontalSpacer_18">
245             <property name="orientation">
246                 <enum>Qt::Horizontal</enum>
247             </property>
248             <property name="sizeHint" stdset="0">
249                 <size>
250                     <width>40</width>
251                     <height>20</height>
252                 </size>
253             </property>
254         </spacer>
255     </item>
256 </layout>
257 </item>
258 <item>
259     <widget class="QLabel" name="tab1_label_3">
260         <property name="sizePolicy">
261             <sizepolicy hstretch="Ignored" vstretch="Fixed">
262                 <horstretch>0</horstretch>
263                 <verstretch>0</verstretch>
264             </sizepolicy>
265         </property>
266         <property name="minimumSize">
267             <size>
268                 <width>256</width>
269                 <height>144</height>
270             </size>
271         </property>
272         <property name="maximumSize">
273             <size>
274                 <width>256</width>
275                 <height>144</height>
276             </size>
277         </property>
278         <property name="text">
279             <string>TextLabel</string>
280         </property>
281         <property name="alignment">
```



```

321         <enum>Qt::Horizontal</enum>
322     </property>
323     <property name="sizeHint" stdset="0">
324         <size>
325             <width>40</width>
326             <height>20</height>
327         </size>
328     </property>
329 </spacer>
330 </item>
331 <item>
332     <layout class="QVBoxLayout" name="verticalLayout_7">
333         <item>
334             <layout class="QVBoxLayout" name="verticalLayout_8">
335                 <item>
336                     <layout class="QHBoxLayout"
337                         ↪ name="horizontalLayout_9">
338                         <item>
339                             <spacer name="horizontalSpacer_5">
340                                 <property name="orientation">
341                                     <enum>Qt::Horizontal</enum>
342                                 </property>
343                                 <property name="sizeType">
344                                     <enum>QSizePolicy::Maximum</enum>
345                                 </property>
346                                 <property name="sizeHint" stdset="0">
347                                     <size>
348                                         <width>30</width>
349                                         <height>20</height>
350                                     </size>
351                                 </property>
352                             </spacer>
353                         </item>
354                         <item>
355                             <widget class="QComboBox" name="tab1_combobox_4">
356                                 <property name="sizePolicy">
357                                     <sizepolicy hsizeType="MinimumExpanding"
358                                         ↪ vsizetype="Fixed">
359                                     <horstretch>0</horstretch>

```

```
358         <verstretch>0</verstretch>
359     </sizepolicy>
360 </property>
361 </widget>
362 </item>
363 <item>
364     <spacer name="horizontalSpacer_6">
365         <property name="orientation">
366             <enum>Qt::Horizontal</enum>
367         </property>
368         <property name="sizeType">
369             <enum>QSizePolicy::Maximum</enum>
370         </property>
371         <property name="sizeHint" stdset="0">
372             <size>
373                 <width>30</width>
374                 <height>20</height>
375             </size>
376         </property>
377     </spacer>
378 </item>
379 </layout>
380 </item>
381 <item>
382     <spacer name="horizontalSpacer_21">
383         <property name="orientation">
384             <enum>Qt::Horizontal</enum>
385         </property>
386         <property name="sizeHint" stdset="0">
387             <size>
388                 <width>40</width>
389                 <height>20</height>
390             </size>
391         </property>
392     </spacer>
393 </item>
394 </layout>
395 </item>
396 <item>
```



```
397     <widget class="QLabel" name="tab1_label_4">
398     <property name="sizePolicy">
399         <sizepolicy hsizeType="Ignored" vsizeType="Fixed">
400             <horstretch>0</horstretch>
401             <verstretch>0</verstretch>
402         </sizepolicy>
403     </property>
404     <property name="minimumSize">
405         <size>
406             <width>256</width>
407             <height>144</height>
408         </size>
409     </property>
410     <property name="maximumSize">
411         <size>
412             <width>256</width>
413             <height>144</height>
414         </size>
415     </property>
416     <property name="text">
417         <string>TextLabel</string>
418     </property>
419     <property name="alignment">
420         <set>Qt::AlignCenter</set>
421     </property>
422 </widget>
423 </item>
424 </layout>
425 </item>
426 <item>
427     <spacer name="horizontalSpacer_22">
428         <property name="orientation">
429             <enum>Qt::Horizontal</enum>
430         </property>
431         <property name="sizeHint" stdset="0">
432             <size>
433                 <width>40</width>
434                 <height>20</height>
435             </size>
```

```
436         </property>
437     </spacer>
438 </item>
439 </layout>
440 </widget>
441 </widget>
442 <widget class="QWidget" name="tab_4">
443     <attribute name="title">
444         <string>麦克风</string>
445     </attribute>
446     <widget class="QWidget" name="layoutWidget">
447         <property name="geometry">
448             <rect>
449                 <x>0</x>
450                 <y>10</y>
451                 <width>371</width>
452                 <height>211</height>
453             </rect>
454         </property>
455         <layout class="QHBoxLayout" name="horizontalLayout_13">
456             <item>
457                 <spacer name="horizontalSpacer_31">
458                     <property name="orientation">
459                         <enum>Qt::Horizontal</enum>
460                     </property>
461                     <property name="sizeHint" stdset="0">
462                         <size>
463                             <width>40</width>
464                             <height>40</height>
465                         </size>
466                     </property>
467                 </spacer>
468             </item>
469             <item>
470                 <layout class="QVBoxLayout" name="verticalLayout_13">
471                     <item>
472                         <layout class="QVBoxLayout" name="verticalLayout_14">
473                             <item>
```

```
474 <layout class="QHBoxLayout"
    ↳ name="horizontalLayout_14">
475 <item>
476 <spacer name="horizontalSpacer_32">
477 <property name="orientation">
478 <enum>Qt::Horizontal</enum>
479 </property>
480 <property name="sizeType">
481 <enum>QSizePolicy::Maximum</enum>
482 </property>
483 <property name="sizeHint" stdset="0">
484 <size>
485 <width>31</width>
486 <height>20</height>
487 </size>
488 </property>
489 </spacer>
490 </item>
491 <item>
492 <widget class="QComboBox" name="tab1_combobox_7">
493 <property name="sizePolicy">
494 <sizepolicy hsiptype="MinimumExpanding"
    ↳ vsizetype="Fixed">
495 <horstretch>0</horstretch>
496 <verstretch>0</verstretch>
497 </sizepolicy>
498 </property>
499 <property name="minimumSize">
500 <size>
501 <width>160</width>
502 <height>0</height>
503 </size>
504 </property>
505 </widget>
506 </item>
507 <item>
508 <spacer name="horizontalSpacer_33">
509 <property name="orientation">
510 <enum>Qt::Horizontal</enum>
```

```
511         </property>
512         <property name="sizeType">
513             <enum>QSizePolicy::Maximum</enum>
514         </property>
515         <property name="sizeHint" stdset="0">
516             <size>
517                 <width>31</width>
518                 <height>20</height>
519             </size>
520         </property>
521     </spacer>
522 </item>
523 </layout>
524 </item>
525 <item>
526     <spacer name="horizontalSpacer_34">
527         <property name="orientation">
528             <enum>Qt::Horizontal</enum>
529         </property>
530         <property name="sizeType">
531             <enum>QSizePolicy::Minimum</enum>
532         </property>
533         <property name="sizeHint" stdset="0">
534             <size>
535                 <width>256</width>
536                 <height>55</height>
537             </size>
538         </property>
539     </spacer>
540 </item>
541 </layout>
542 </item>
543 <item>
544     <widget class="QProgressBar" name="progressBar">
545         <property name="value">
546             <number>0</number>
547         </property>
548         <property name="textVisible">
549             <bool>>false</bool>
```

```
550         </property>
551     </widget>
552 </item>
553 <item>
554     <spacer name="horizontalSpacer_36">
555         <property name="orientation">
556             <enum>Qt::Horizontal</enum>
557         </property>
558         <property name="sizeHint" stdset="0">
559             <size>
560                 <width>40</width>
561                 <height>60</height>
562             </size>
563         </property>
564     </spacer>
565 </item>
566 </layout>
567 </item>
568 <item>
569     <spacer name="horizontalSpacer_35">
570         <property name="orientation">
571             <enum>Qt::Horizontal</enum>
572         </property>
573         <property name="sizeHint" stdset="0">
574             <size>
575                 <width>40</width>
576                 <height>20</height>
577             </size>
578         </property>
579     </spacer>
580 </item>
581 </layout>
582 </widget>
583 </widget>
584 </widget>
585 <widget class="QPushButton" name="OK">
586     <property name="geometry">
587         <rect>
588             <x>260</x>
```

```
589     <y>280</y>
590     <width>111</width>
591     <height>23</height>
592 </rect>
593 </property>
594 <property name="text">
595     <string>确认</string>
596 </property>
597 </widget>
598 </widget>
599 <resources/>
600 <connections/>
601 </ui>
```

1.5 designer/gui.py

```
1  # -*- coding: utf-8 -*-
2
3  # Form implementation generated from reading ui file 'gui.ui'
4  #
5  # Created by: PyQt5 UI code generator 5.15.10
6  #
7  # WARNING: Any manual changes made to this file will be lost
8  ↳ when pyuic5 is
9  # run again. Do not edit this file unless you know what you
10 ↳ are doing.
11
12
13
14 class Ui_MainWindow(object):
15     def setupUi(self, MainWindow):
16         MainWindow.setObjectName("MainWindow")
17         MainWindow.resize(1048, 1025)
18         icon = QtGui.QIcon()
19         icon.addPixmap(QtGui.QPixmap("../icon.ico"),
20             ↳ QtGui.QIcon.Normal, QtGui.QIcon.Off)
```

```

525         print("Saved")
526     def updatemessage(self):
527         # 只有在点击开始录制时才会显示该消息,
528         ↪ 点击进程结束时停止显示。
529         with open("config/db.json", "r", encoding='UTF-8') as
530             dbfile_r:
531                 jsonfile = json.load(dbfile_r)
532             self.save_path = jsonfile['save_path']
533             self.time_end = time.time()
534             m, s = divmod(int(self.time_end-self.time_start), 60)
535             h, m = divmod(m, 60)
536             self.recording_time =
537             ↪ str(h)+'时'+str(m)+'分'+str(s)+'秒'
538         self.statusbar.showMessage('当前样本编号: ' +
539             ↪ self.lineEdit.text() + '    保存位置: ' +
540             ↪ self.save_path + '    录制时间: ' +
541             ↪ self.recording_time)
542         if self._start_running == True:
543             self.qttimer.stop()
544     def startRe(self):
545         print(self.voice_index)
546         if self._start_running:
547             self._start_running =False
548             self._begin = True
549             with open("config/db.json", "r", encoding='UTF-8')
550                 as dbfile_r:
551                     jsonfile = json.load(dbfile_r)
552             self.voice_format = jsonfile["voice_format"]
553             self.video_format = jsonfile["video_format"]
554             #需要显示的有: 病人ID, 当前保存路径,
555             ↪ 已经录制多长时间, 在加一个录制中。
556             #已录制多长时间需要动态显示, 每秒更新一次状态栏,
557             ↪ 只在录制视频的时候显示。
558             #什么情况下会录制视频? _begin == True ,上面写了,
559             ↪ 不等于-1就能录制视频。

```

```

550         if self.voice_index != -1 or self.eye_camera != -1
↪         or self.hd_camera != -1 or self.face_camera !=
↪         -1:#self.voice_index! =-1, 则一定会录制音频。
↪         如果有其他设备不为-1则会录制视频,
↪         只要有录制情况就显示该消息
551         self.time_start = time.time()
552         self.record_judge = True #表示是否在录制中。
↪         该变量只与qtimer有关,
↪         该变量为True则一定有QTimer ()
↪         ,当然线程终止也会赋值为False,
↪         表示结束录制了。
553         self.qttimer = QTimer()
554         self.qttimer.start(200)
555         self.qttimer.timeout.connect(self.updatemessa_
↪         ge)
556         threading._start_new_thread(self.save_hd_video,
↪         ())
557         threading._start_new_thread(self.save_face_video,
↪         ())
558         threading._start_new_thread(self.save_eye_video,
↪         ())
559         if self.voice_index != -1:
560             threading._start_new_thread(self.win_4, ())
561         else:
562             pass
563     def endRe(self):
564         if self._start_running==False:
565             if self.record_judge == True:# 只有点击
566                 self.qttimer.stop()
567                 self.record_judge = False
568                 self.statusbar.showMessage('录制结束,
↪                 文件已保存至: ' + self.save_path + '
↪                 录制时长: ' + self.recording_time)
569                 self._start_running=True
570                 self._begin =False
571                 if self.voice_index != -1:
572                     self._voice_get = False
573                     self.voice_save()

```



```

574         self.statusbar.showMessage('录制结束，
↪ 文件已保存至: '+self.save_path+' 录制时长:
↪ '+self.recording_time)
575     else:
576         pass
577     def closeEvent(self,event):
578         # 关闭所有线程，防止不能退出
579         # 如果没有运行进程终止，则不能退出
580         if self._init_running == False:
581             QMessageBox.information(self,'警告','进程未中止，
↪ 请中止进程再关闭窗口! ')
582             event.ignore()
583             print('closeevent')
584     def stop(self):
585         if self.record_judge == True:
586             QMessageBox.information(self,'警告','正在录制中，
↪ 请结束录制后再点击停用视频设备! ')
587         else:
588             self._win1_running = False
589             self._win2_running = False
590             self._win3_running = False
591             self._init_running = True
592             print('stop','所有通道均已断开')
593             self.voice_image.updateImage(img_no_voice)
594             self.statusbar.showMessage('所有通道均已断开')
595     def f_p(self):
596         #点进程终止的时候录音进程可能不会终止，而视频录制会结束，
↪ 必须再点结束录制才能结束-----先不管它，
↪ 假设先用不到它。-----还是先解决它吧。
597         #进程中止前判断是否在录制中，若在录制中，需要点击录制结束
598         if self.record_judge == True:
599             QMessageBox.information(self,'警告','正在录制中，
↪ 请结束录制后再点击进程中止! ')
600         else:
601             self._win1_running = False
602             self._win2_running = False
603             self._win3_running = False
604             self._init_running = True
605             if self.record_judge == True:

```

```

606         self._begin = False
607         self._start_running = True
608         self._voice_get = False
609         self.voice_save()
610         self.qttimer.stop()
611         self.record_judge = False
612         self._voice_get = True
613         self._begin = False
614         print('stop', '所有进程均已中止')
615         self.statusbar.showMessage('所有进程均已中止')
616         self.voice_image.updateImage(img_no_voice)
617     def about(self):
618         QMessageBox.about(self, " 面部表型特征提取系统",
619                             "<p> 山东省精神卫生中心 </p>")
620     def updateImages(self):
621         self.calculateProcessed()
622         self.calculateOriginal()
623     def createButtons(self):
624         self.initButton.clicked.connect(self.initfrom)
625         self.pushButton.clicked.connect(self.stop)
626         self.shotButton.clicked.connect(self.f_p)
627         self.actionAbout.triggered.connect(self.about)
628         self.startButton.clicked.connect(self.startRe)
629         self.endButton.clicked.connect(self.endRe)
630         self.action12.triggered.connect(self.child_CameraVoic_
        ↪ e_setting)
        ↪ #子窗口配置摄像头和麦克风
631         self.actionse.triggered.connect(self.Child_File_Setti_
        ↪ ng)#选择文件路径
632     def setBackground(self):
633         cv_img_rgb = img_no_camera
634         self.original1_image.updateImage(cv_img_rgb)
635         self.original2_image.updateImage(cv_img_rgb)
636         self.eye_image.updateImage(cv_img_rgb)
637         self.voice_image.updateImage(img_no_voice)

```

1.15 CvPyGui/ui/___init___.py

1

1.16 CvPyGui/ui/child_file.py

```
1  # -*- coding: utf-8 -*-
2
3  # Form implementation generated from reading ui file
4  ↳ 'child_file.ui'
5  #
6  # Created by: PyQt5 UI code generator 5.15.10
7  #
8  # WARNING: Any manual changes made to this file will be lost
9  ↳ when pyuic5 is
10 # run again. Do not edit this file unless you know what you
11 ↳ are doing.
12
13
14 from PyQt5 import QtCore, QtGui, QtWidgets
15
16 class Ui_Form(object):
17     def setupUi(self, Form):
18         Form.setObjectName("Form")
19         Form.resize(385, 269)
20         self.file_ok = QtWidgets.QPushButton(Form)
21         self.file_ok.setGeometry(QtCore.QRect(290, 230, 75,
22             ↳ 23))
23         self.file_ok.setObjectName("file_ok")
24         self.label = QtWidgets.QLabel(Form)
25         self.label.setGeometry(QtCore.QRect(10, 100, 101, 16))
26         self.label.setObjectName("label")
27         self.layoutWidget = QtWidgets.QWidget(Form)
28         self.layoutWidget.setGeometry(QtCore.QRect(14, 5, 361,
29             ↳ 71))
30         self.layoutWidget.setObjectName("layoutWidget")
```

```
27         self.verticalLayout =  
            ↳ QtWidgets.QVBoxLayout(self.layoutWidget)  
28         self.verticalLayout.setContentsMargins(0, 0, 0, 0)  
29         self.verticalLayout.setObjectName("verticalLayout")  
30         self.horizontalLayout_2 = QtWidgets.QHBoxLayout()  
31         self.horizontalLayout_2.setObjectName("horizontalLayout_2")  
            ↳ ut_2")  
32         self.show_file_path_label =  
            ↳ QtWidgets.QLabel(self.layoutWidget)  
33         self.show_file_path_label.setStyleSheet("")  
34         self.show_file_path_label.setObjectName("show_file_path_label")  
            ↳ th_label")  
35         self.horizontalLayout_2.addWidget(self.show_file_path_label)  
            ↳ _label)  
36         spacerItem = QtWidgets.QSpacerItem(40, 20,  
            ↳ QtWidgets.QSizePolicy.Minimum,  
            ↳ QtWidgets.QSizePolicy.Expanding)  
37         self.horizontalLayout_2.addItem(spacerItem)  
38         self.verticalLayout.addLayout(self.horizontalLayout_2)  
39         self.horizontalLayout = QtWidgets.QHBoxLayout()  
40         self.horizontalLayout.setObjectName("horizontalLayout")  
            ↳ ")  
41         self.file_path_label =  
            ↳ QtWidgets.QLabel(self.layoutWidget)  
42         sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePolicy.Minimum,  
            ↳ icycle.Minimum,  
            ↳ QtWidgets.QSizePolicy.Preferred)  
43         sizePolicy.setHorizontalStretch(0)  
44         sizePolicy.setVerticalStretch(0)  
45         sizePolicy.setHeightForWidth(self.file_path_label.sizePolicy().hasHeightForWidth())  
46         self.file_path_label.setSizePolicy(sizePolicy)  
47         self.file_path_label.setMinimumSize(QtCore.QSize(0, 20))  
48         self.file_path_label.setObjectName("file_path_label")  
49         self.horizontalLayout.addWidget(self.file_path_label)  
50         self.choice_file_path_button =  
            ↳ QtWidgets.QPushButton(self.layoutWidget)
```

```

51     sizePolicy =
        ↳ QtWidgets.QSizePolicy(QtWidgets.QSizePolicy.Fixed,
        ↳ QtWidgets.QSizePolicy.Fixed)
52     sizePolicy.setHorizontalStretch(0)
53     sizePolicy.setVerticalStretch(0)
54     sizePolicy.setHeightForWidth(self.choice_file_path_bu
        ↳ tton.sizePolicy().hasHeightForWidth())
55     self.choice_file_path_button.setSizePolicy(sizePolicy)
56     self.choice_file_path_button.setObjectName("choice_fi
        ↳ le_path_button")
57     self.horizontalLayout.addWidget(self.choice_file_path
        ↳ _button)
58     self.verticalLayout.addLayout(self.horizontalLayout)
59     self.layoutWidget1 = QtWidgets.QWidget(Form)
60     self.layoutWidget1.setGeometry(QtCore.QRect(40, 180,
        ↳ 291, 22))
61     self.layoutWidget1.setObjectName("layoutWidget1")
62     self.horizontalLayout_3 =
        ↳ QtWidgets.QHBoxLayout(self.layoutWidget1)
63     self.horizontalLayout_3.setContentsMargins(0, 0, 0, 0)
64     self.horizontalLayout_3.setObjectName("horizontalLayo
        ↳ ut_3")
65     self.label_3 = QtWidgets.QLabel(self.layoutWidget1)
66     self.label_3.setObjectName("label_3")
67     self.horizontalLayout_3.addWidget(self.label_3)
68     self.radioButton_mp3 =
        ↳ QtWidgets.QRadioButton(self.layoutWidget1)
69     self.radioButton_mp3.setEnabled(False)
70     self.radioButton_mp3.setObjectName("radioButton_mp3")
71     self.horizontalLayout_3.addWidget(self.radioButton_mp
        ↳ 3)
72     self.radioButton_wav =
        ↳ QtWidgets.QRadioButton(self.layoutWidget1)
73     self.radioButton_wav.setEnabled(False)
74     self.radioButton_wav.setObjectName("radioButton_wav")
75     self.horizontalLayout_3.addWidget(self.radioButton_wa
        ↳ v)
76     self.layoutWidget2 = QtWidgets.QWidget(Form)

```

```

77         self.layoutWidget2.setGeometry(QRect(40, 130,
        ↪ 291, 22))
78         self.layoutWidget2.setObjectName("layoutWidget2")
79         self.horizontalLayout_4 =
        ↪ QtWidgets.QHBoxLayout(self.layoutWidget2)
80         self.horizontalLayout_4.setContentsMargins(0, 0, 0, 0)
81         self.horizontalLayout_4.setObjectName("horizontalLayo_
        ↪ ut_4")
82         self.label_2 = QtWidgets.QLabel(self.layoutWidget2)
83         self.label_2.setObjectName("label_2")
84         self.horizontalLayout_4.addWidget(self.label_2)
85         self.radioButton_mp4 =
        ↪ QtWidgets.QRadioButton(self.layoutWidget2)
86         self.radioButton_mp4.setObjectName("radioButton_mp4")
87         self.horizontalLayout_4.addWidget(self.radioButton_mp
        ↪ 4)
88         self.radioButton_avi =
        ↪ QtWidgets.QRadioButton(self.layoutWidget2)
89         self.radioButton_avi.setObjectName("radioButton_avi")
90         self.horizontalLayout_4.addWidget(self.radioButton_av
        ↪ i)
91
92         self.retranslateUi(Form)
93         QtCore.QMetaObject.connectSlotsByName(Form)
94
95     def retranslateUi(self, Form):
96         _translate = QtCore.QCoreApplication.translate
97         Form.setWindowTitle(_translate("Form", " 初始化配置"))
98         self.file_ok.setText(_translate("Form", " 确认"))
99         self.label.setText(_translate("Form",
        ↪ " 音视频格式选择"))
100        self.show_file_path_label.setText(_translate("Form",
        ↪ " 当前文件保存路径:"))
101        self.file_path_label.setText(_translate("Form", "C:"))
102        self.choice_file_path_button.setText(_translate("Form",
        ↪ " ,
        ↪ 选择文件保存路径"))
103        self.label_3.setText(_translate("Form", " 音频格式"))

```

```

104         self.radioButton_mp3.setText(_translate("Form",
            ↪ "mp3"))
105         self.radioButton_wav.setText(_translate("Form",
            ↪ "wav"))
106         self.label_2.setText(_translate("Form", " 视频格式"))
107         self.radioButton_mp4.setText(_translate("Form",
            ↪ "mp4"))
108         self.radioButton_avi.setText(_translate("Form",
            ↪ "avi"))
109
110
111 if __name__ == "__main__":
112     import sys
113     app = QtWidgets.QApplication(sys.argv)
114     Form = QtWidgets.QWidget()
115     ui = Ui_Form()
116     ui.setupUi(Form)
117     Form.show()
118     sys.exit(app.exec_())

```

1.17 CvPyGui/ui/child_file.ui

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <ui version="4.0">
3     <class>Form</class>
4     <widget class="QWidget" name="Form">
5         <property name="geometry">
6             <rect>
7                 <x>0</x>
8                 <y>0</y>
9                 <width>385</width>
10                <height>269</height>
11            </rect>
12        </property>
13        <property name="windowTitle">
14            <string>初始化配置</string>
15        </property>
16        <widget class="QPushButton" name="file_ok">

```

```
17     <property name="geometry">
18         <rect>
19             <x>290</x>
20             <y>230</y>
21             <width>75</width>
22             <height>23</height>
23         </rect>
24     </property>
25     <property name="text">
26         <string>确认</string>
27     </property>
28 </widget>
29 <widget class="QLabel" name="label">
30     <property name="geometry">
31         <rect>
32             <x>10</x>
33             <y>100</y>
34             <width>101</width>
35             <height>16</height>
36         </rect>
37     </property>
38     <property name="text">
39         <string>音视频格式选择</string>
40     </property>
41 </widget>
42 <widget class="QWidget" name="layoutWidget">
43     <property name="geometry">
44         <rect>
45             <x>14</x>
46             <y>5</y>
47             <width>361</width>
48             <height>71</height>
49         </rect>
50     </property>
51     <layout class="QVBoxLayout" name="verticalLayout">
52         <item>
53             <layout class="QHBoxLayout" name="horizontalLayout_2">
54                 <item>
55                     <widget class="QLabel" name="show_file_path_label">
```



```
56         <property name="styleSheet">
57             <string notr="true"/>
58         </property>
59         <property name="text">
60             <string>当前文件保存路径:</string>
61         </property>
62     </widget>
63 </item>
64 <item>
65     <spacer name="horizontalSpacer">
66         <property name="orientation">
67             <enum>Qt::Orientation::Horizontal</enum>
68         </property>
69         <property name="sizeHint" stdset="0">
70             <size>
71                 <width>40</width>
72                 <height>20</height>
73             </size>
74         </property>
75     </spacer>
76 </item>
77 </layout>
78 </item>
79 <item>
80     <layout class="QHBoxLayout" name="horizontalLayout">
81         <item>
82             <widget class="QLabel" name="file_path_label">
83                 <property name="sizePolicy">
84                     <sizepolicy hsize="Minimum"
85                        ↪ vsizetype="Preferred">
86                         <horstretch>0</horstretch>
87                         <verstretch>0</verstretch>
88                     </sizepolicy>
89                 </property>
90                 <property name="minimumSize">
91                     <size>
92                         <width>0</width>
93                         <height>20</height>
94                     </size>
```

```

94         </property>
95         <property name="text">
96             <string>C:</string>
97         </property>
98     </widget>
99 </item>
100 <item>
101     <widget class="QPushButton"
102         ↪ name="choice_file_path_button">
103         <property name="sizePolicy">
104             <sizepolicy hsizeType="Fixed" vsizeType="Fixed">
105                 <horstretch>0</horstretch>
106                 <verstretch>0</verstretch>
107             </sizepolicy>
108         </property>
109         <property name="text">
110             <string>选择文件保存路径</string>
111         </property>
112     </widget>
113 </item>
114 </layout>
115 </item>
116 </layout>
117 </widget>
118 <widget class="QWidget" name="layoutWidget">
119     <property name="geometry">
120         <rect>
121             <x>40</x>
122             <y>180</y>
123             <width>291</width>
124             <height>22</height>
125         </rect>
126     </property>
127     <layout class="QHBoxLayout" name="horizontalLayout_3">
128         <item>
129             <widget class="QLabel" name="label_3">
130                 <property name="text">
131                     <string>音频格式</string>
132                 </property>

```

```
132     </widget>
133 </item>
134 <item>
135     <widget class="QRadioButton" name="radioButton_mp3">
136         <property name="enabled">
137             <bool>>false</bool>
138         </property>
139         <property name="text">
140             <string>mp3</string>
141         </property>
142     </widget>
143 </item>
144 <item>
145     <widget class="QRadioButton" name="radioButton_wav">
146         <property name="enabled">
147             <bool>>false</bool>
148         </property>
149         <property name="text">
150             <string>wav</string>
151         </property>
152     </widget>
153 </item>
154 </layout>
155 </widget>
156 <widget class="QWidget" name="layoutWidget">
157     <property name="geometry">
158         <rect>
159             <x>40</x>
160             <y>130</y>
161             <width>291</width>
162             <height>22</height>
163         </rect>
164     </property>
165     <layout class="QHBoxLayout" name="horizontalLayout_4">
166         <item>
167             <widget class="QLabel" name="label_2">
168                 <property name="text">
169                     <string>视频格式</string>
170                 </property>
```

```
171     </widget>
172 </item>
173 <item>
174     <widget class="QRadioButton" name="radioButton_mp4">
175         <property name="text">
176             <string>mp4</string>
177         </property>
178     </widget>
179 </item>
180 <item>
181     <widget class="QRadioButton" name="radioButton_avi">
182         <property name="text">
183             <string>avi</string>
184         </property>
185     </widget>
186 </item>
187 </layout>
188 </widget>
189 </widget>
190 <resources/>
191 <connections/>
192 </ui>
```

1.18 CvPyGui/ui/child_test.py

```
1 from PyQt5 import QtCore, QtGui, QtWidgets
2 class Ui_Form(object):
3     def setupUi(self, Form):
4         Form.setObjectName("Form")
5         Form.resize(400, 310)
6         self.tabWidget = QtWidgets.QTabWidget(Form)
7         self.tabWidget.setGeometry(QtCore.QRect(10, 10, 381,
8             ↪ 261))
9         self.tabWidget.setObjectName("tabWidget")
10        self.tab = QtWidgets.QWidget()
11        self.tab.setObjectName("tab")
12        self.layoutWidget = QtWidgets.QWidget(self.tab)
```

```
12         self.layoutWidget.setGeometry(QRect(0, 10, 371,
13         ↪ 211))
14         self.layoutWidget.setObjectName("layoutWidget")
15         self.horizontalLayout_2 =
16         ↪ QtWidgets.QHBoxLayout(self.layoutWidget)
17         self.horizontalLayout_2.setContentsMargins(0, 0, 0, 0)
18         self.horizontalLayout_2.setObjectName("horizontalLayo_
19         ↪ ut_2")
20         spacerItem = QtWidgets.QSpacerItem(40, 20,
21         ↪ QtWidgets.QSizePolicy.Expanding,
22         ↪ QtWidgets.QSizePolicy.Minimum)
23         self.horizontalLayout_2.addItem(spacerItem)
24         self.verticalLayout_2 = QtWidgets.QVBoxLayout()
25         self.verticalLayout_2.setObjectName("verticalLayout_2_
26         ↪ ")
27         self.verticalLayout = QtWidgets.QVBoxLayout()
28         self.verticalLayout.setObjectName("verticalLayout")
29         self.horizontalLayout = QtWidgets.QHBoxLayout()
30         self.horizontalLayout.setObjectName("horizontalLayout_
31         ↪ ")
32         spacerItem1 = QtWidgets.QSpacerItem(30, 20,
33         ↪ QtWidgets.QSizePolicy.Maximum,
34         ↪ QtWidgets.QSizePolicy.Minimum)
35         self.horizontalLayout.addItem(spacerItem1)
36         self.tab1_combobox =
37         ↪ QtWidgets.QComboBox(self.layoutWidget)
38         sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol_
39         ↪  icy.MinimumExpanding,
40         ↪ QtWidgets.QSizePolicy.Fixed)
41         sizePolicy.setHorizontalStretch(0)
42         sizePolicy.setVerticalStretch(0)
43         sizePolicy.setHeightForWidth(self.tab1_combobox.sizeP_
44         ↪ olicy().hasHeightForWidth())
45         self.tab1_combobox.setSizePolicy(sizePolicy)
46         self.tab1_combobox.setObjectName("tab1_combobox")
47         self.horizontalLayout.addWidget(self.tab1_combobox)
48         spacerItem2 = QtWidgets.QSpacerItem(30, 20,
49         ↪ QtWidgets.QSizePolicy.Maximum,
50         ↪ QtWidgets.QSizePolicy.Minimum)
```

```

36         self.horizontalLayout.addItem(spacerItem2)
37         self.verticalLayout.addLayout(self.horizontalLayout)
38         spacerItem3 = QtWidgets.QSpacerItem(40, 20,
39         ↪ QtWidgets.QSizePolicy.Expanding,
40         ↪ QtWidgets.QSizePolicy.Minimum)
41         self.verticalLayout.addItem(spacerItem3)
42         self.verticalLayout_2.addLayout(self.verticalLayout)
43         self.tab1_label = QtWidgets.QLabel(self.layoutWidget)
44         sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol_
45         ↪ icy.Ignored,
46         ↪ QtWidgets.QSizePolicy.Fixed)
47         sizePolicy.setHorizontalStretch(0)
48         sizePolicy.setVerticalStretch(0)
49         sizePolicy.setHeightForWidth(self.tab1_label.sizePoli_
50         ↪ cy().hasHeightForWidth())
51         self.tab1_label.setSizePolicy(sizePolicy)
52         self.tab1_label.setMinimumSize(QtCore.QSize(256, 144))
53         self.tab1_label.setMaximumSize(QtCore.QSize(256, 144))
54         self.tab1_label.setAlignment(QtCore.Qt.AlignCenter)
55         self.tab1_label.setObjectName("tab1_label")
56         self.verticalLayout_2.addWidget(self.tab1_label)
57         self.horizontalLayout_2.addLayout(self.verticalLayout_
58         ↪ _2)
59         spacerItem4 = QtWidgets.QSpacerItem(40, 20,
60         ↪ QtWidgets.QSizePolicy.Expanding,
61         ↪ QtWidgets.QSizePolicy.Minimum)
62         self.horizontalLayout_2.addItem(spacerItem4)
63         self.tabWidget.addTab(self.tab, "")
64         self.tab_2 = QtWidgets.QWidget()
65         self.tab_2.setObjectName("tab_2")
66         self.layoutWidget_2 = QtWidgets.QWidget(self.tab_2)
67         self.layoutWidget_2.setGeometry(QtCore.QRect(0, 10,
68         ↪ 371, 211))
69         self.layoutWidget_2.setObjectName("layoutWidget_2")
70         self.horizontalLayout_7 =
71         ↪ QtWidgets.QHBoxLayout(self.layoutWidget_2)
72         self.horizontalLayout_7.setContentsMargins(0, 0, 0, 0)
73         self.horizontalLayout_7.setObjectName("horizontalLayo_
74         ↪ ut_7")

```

```
64         spacerItem5 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
65     self.horizontalLayout_7.addItem(spacerItem5)
66     self.verticalLayout_5 = QtWidgets.QVBoxLayout()
67     self.verticalLayout_5.setObjectName("verticalLayout_5")
        ↪ ")
68     self.verticalLayout_6 = QtWidgets.QVBoxLayout()
69     self.verticalLayout_6.setObjectName("verticalLayout_6")
        ↪ ")
70     self.horizontalLayout_8 = QtWidgets.QHBoxLayout()
71     self.horizontalLayout_8.setObjectName("horizontalLayo
        ↪ ut_8")
72     spacerItem6 = QtWidgets.QSpacerItem(30, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
73     self.horizontalLayout_8.addItem(spacerItem6)
74     self.tab1_combobox_3 =
        ↪ QtWidgets.QComboBox(self.layoutWidget_2)
75     sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol
        ↪ icycle.MinimumExpanding,
        ↪ QtWidgets.QSizePolicy.Fixed)
76     sizePolicy.setHorizontalStretch(0)
77     sizePolicy.setVerticalStretch(0)
78     sizePolicy.setHeightForWidth(self.tab1_combobox_3.siz
        ↪ ePolicy().hasHeightForWidth())
79     self.tab1_combobox_3.setSizePolicy(sizePolicy)
80     self.tab1_combobox_3.setObjectName("tab1_combobox_3")
81     self.horizontalLayout_8.addWidget(self.tab1_combobox_
        ↪ 3)
82     spacerItem7 = QtWidgets.QSpacerItem(30, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
83     self.horizontalLayout_8.addItem(spacerItem7)
84     self.verticalLayout_6.addLayout(self.horizontalLayout_
        ↪ _8)
85     spacerItem8 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
```

```
86         self.verticalLayout_6.addItem(spacerItem8)
87         self.verticalLayout_5.addLayout(self.verticalLayout_6)
88         self.tab1_label_3 =
89             ↳ QtWidgets.QLabel(self.layoutWidget_2)
89         sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol_
89             ↳ icy.Ignored,
89             ↳ QtWidgets.QSizePolicy.Fixed)
90         sizePolicy.setHorizontalStretch(0)
91         sizePolicy.setVerticalStretch(0)
92         sizePolicy.setHeightForWidth(self.tab1_label_3.sizePo_
92             ↳ licy().hasHeightForWidth())
93         self.tab1_label_3.setSizePolicy(sizePolicy)
94         self.tab1_label_3.setMinimumSize(QtCore.QSize(256,
94             ↳ 144))
95         self.tab1_label_3.setMaximumSize(QtCore.QSize(256,
95             ↳ 144))
96         self.tab1_label_3.setAlignment(QtCore.Qt.AlignCenter)
97         self.tab1_label_3.setObjectName("tab1_label_3")
98         self.verticalLayout_5.addWidget(self.tab1_label_3)
99         self.horizontalLayout_7.addLayout(self.verticalLayout_
99             ↳ _5)
100        spacerItem9 = QtWidgets.QSpacerItem(40, 20,
100            ↳ QtWidgets.QSizePolicy.Expanding,
100            ↳ QtWidgets.QSizePolicy.Minimum)
101        self.horizontalLayout_7.addItem(spacerItem9)
102        # self.tabWidget.addTab(self.tab_2, "")
103        self.tab_3 = QtWidgets.QWidget()
104        self.tab_3.setObjectName("tab_3")
105        self.layoutWidget_3 = QtWidgets.QWidget(self.tab_3)
106        self.layoutWidget_3.setGeometry(QtCore.QRect(0, 10,
106            ↳ 371, 211))
107        self.layoutWidget_3.setObjectName("layoutWidget_3")
108        self.horizontalLayout_4 =
108            ↳ QtWidgets.QHBoxLayout(self.layoutWidget_3)
109        self.horizontalLayout_4.setContentsMargins(0, 0, 0, 0)
110        self.horizontalLayout_4.setObjectName("horizontalLayo_
110            ↳ ut_4")
```



```

111         spacerItem10 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
112     self.horizontalLayout_4.addItem(spacerItem10)
113     self.verticalLayout_7 = QtWidgets.QVBoxLayout()
114     self.verticalLayout_7.setObjectName("verticalLayout_7")
        ↪ ")
115     self.verticalLayout_8 = QtWidgets.QVBoxLayout()
116     self.verticalLayout_8.setObjectName("verticalLayout_8")
        ↪ ")
117     self.horizontalLayout_9 = QtWidgets.QHBoxLayout()
118     self.horizontalLayout_9.setObjectName("horizontalLayo
        ↪ ut_9")
119     spacerItem11 = QtWidgets.QSpacerItem(30, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
120     self.horizontalLayout_9.addItem(spacerItem11)
121     self.tab1_combobox_4 =
        ↪ QtWidgets.QComboBox(self.layoutWidget_3)
122     sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol
        ↪ icy.MinimumExpanding,
        ↪ QtWidgets.QSizePolicy.Fixed)
123     sizePolicy.setHorizontalStretch(0)
124     sizePolicy.setVerticalStretch(0)
125     sizePolicy.setHeightForWidth(self.tab1_combobox_4.siz
        ↪ ePolicy().hasHeightForWidth())
126     self.tab1_combobox_4.setSizePolicy(sizePolicy)
127     self.tab1_combobox_4.setObjectName("tab1_combobox_4")
128     self.horizontalLayout_9.addWidget(self.tab1_combobox_
        ↪ 4)
129     spacerItem12 = QtWidgets.QSpacerItem(30, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
130     self.horizontalLayout_9.addItem(spacerItem12)
131     self.verticalLayout_8.addLayout(self.horizontalLayout
        ↪ _9)
132     spacerItem13 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)

```

```

133     self.verticalLayout_8.addItem(spacerItem13)
134     self.verticalLayout_7.addLayout(self.verticalLayout_8)
135     self.tab1_label_4 =
        ↳ QtWidgets.QLabel(self.layoutWidget_3)
136     sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePol_
        ↳ icy.Ignored,
        ↳ QtWidgets.QSizePolicy.Fixed)
137     sizePolicy.setHorizontalStretch(0)
138     sizePolicy.setVerticalStretch(0)
139     sizePolicy.setHeightForWidth(self.tab1_label_4.sizePo_
        ↳ licy().hasHeightForWidth())
140     self.tab1_label_4.setSizePolicy(sizePolicy)
141     self.tab1_label_4.setMinimumSize(QtCore.QSize(256,
        ↳ 144))
142     self.tab1_label_4.setMaximumSize(QtCore.QSize(256,
        ↳ 144))
143     self.tab1_label_4.setAlignment(QtCore.Qt.AlignCenter)
144     self.tab1_label_4.setObjectName("tab1_label_4")
145     self.verticalLayout_7.addWidget(self.tab1_label_4)
146     self.horizontalLayout_4.addLayout(self.verticalLayout_
        ↳ _7)
147     spacerItem14 = QtWidgets.QSpacerItem(40, 20,
        ↳ QtWidgets.QSizePolicy.Expanding,
        ↳ QtWidgets.QSizePolicy.Minimum)
148     self.horizontalLayout_4.addItem(spacerItem14)
149     # self.tabWidget.addTab(self.tab_3, "")
150     self.tab_4 = QtWidgets.QWidget()
151     self.tab_4.setObjectName("tab_4")
152     self.layoutWidget1 = QtWidgets.QWidget(self.tab_4)
153     self.layoutWidget1.setGeometry(QtCore.QRect(0, 10,
        ↳ 371, 211))
154     self.layoutWidget1.setObjectName("layoutWidget1")
155     self.horizontalLayout_13 =
        ↳ QtWidgets.QHBoxLayout(self.layoutWidget1)
156     self.horizontalLayout_13.setContentsMargins(0, 0, 0,
        ↳ 0)
157     self.horizontalLayout_13.setObjectName("horizontalLay_
        ↳ out_13")

```

```
158         spacerItem15 = QtWidgets.QSpacerItem(40, 40,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
159     self.horizontalLayout_13.addItem(spacerItem15)
160     self.verticalLayout_13 = QtWidgets.QVBoxLayout()
161     self.verticalLayout_13.setObjectName("verticalLayout_13")
        ↪ 13")
162     self.verticalLayout_14 = QtWidgets.QVBoxLayout()
163     self.verticalLayout_14.setObjectName("verticalLayout_14")
        ↪ 14")
164     self.horizontalLayout_14 = QtWidgets.QHBoxLayout()
165     self.horizontalLayout_14.setObjectName("horizontalLayout_14")
        ↪ out_14")
166     spacerItem16 = QtWidgets.QSpacerItem(31, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
167     self.horizontalLayout_14.addItem(spacerItem16)
168     self.tab1_combobox_7 =
        ↪ QtWidgets.QComboBox(self.layoutWidget1)
169     sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePolicy.MinimumExpanding,
        ↪ QtWidgets.QSizePolicy.Fixed)
170     sizePolicy.setHorizontalStretch(0)
171     sizePolicy.setVerticalStretch(0)
172     sizePolicy.setHeightForWidth(self.tab1_combobox_7.sizePolicy().hasHeightForWidth())
173     self.tab1_combobox_7.setSizePolicy(sizePolicy)
174     self.tab1_combobox_7.setMinimumSize(QtCore.QSize(160, 0))
175     self.tab1_combobox_7.setObjectName("tab1_combobox_7")
176     self.horizontalLayout_14.addWidget(self.tab1_combobox_7)
        ↪ _7)
177     spacerItem17 = QtWidgets.QSpacerItem(31, 20,
        ↪ QtWidgets.QSizePolicy.Maximum,
        ↪ QtWidgets.QSizePolicy.Minimum)
178     self.horizontalLayout_14.addItem(spacerItem17)
179     self.verticalLayout_14.addLayout(self.horizontalLayout_14)
        ↪ t_14)
```

```

180         spacerItem18 = QtWidgets.QSpacerItem(256, 55,
        ↪ QtWidgets.QSizePolicy.Minimum,
        ↪ QtWidgets.QSizePolicy.Minimum)
181     self.verticalLayout_14.addItem(spacerItem18)
182     self.verticalLayout_13.addLayout(self.verticalLayout_1
        ↪ 14)
183     self.progressBar =
        ↪ QtWidgets.QProgressBar(self.layoutWidget1)
184     self.progressBar.setProperty("value", 0)
185     self.progressBar.setTextVisible(False)
186     self.progressBar.setObjectName("progressBar")
187     self.verticalLayout_13.addWidget(self.progressBar)
188     spacerItem19 = QtWidgets.QSpacerItem(40, 60,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
189     self.verticalLayout_13.addItem(spacerItem19)
190     self.horizontalLayout_13.addLayout(self.verticalLayout_1
        ↪ t_13)
191     spacerItem20 = QtWidgets.QSpacerItem(40, 20,
        ↪ QtWidgets.QSizePolicy.Expanding,
        ↪ QtWidgets.QSizePolicy.Minimum)
192     self.horizontalLayout_13.addItem(spacerItem20)
193     self.tabWidget.addTab(self.tab_4, "")
194     self.OK = QtWidgets.QPushButton(Form)
195     self.OK.setGeometry(QtCore.QRect(260, 280, 111, 23))
196     self.OK.setObjectName("OK")
197     self.retranslateUi(Form)
198     self.tabWidget.setCurrentIndex(0)
199     QtCore.QMetaObject.connectSlotsByName(Form)
200     def retranslateUi(self, Form):
201         _translate = QtCore.QCoreApplication.translate
202         Form.setWindowTitle(_translate("Form",
        ↪ "音视频设备设置"))
203         self.tab1_label.setText(_translate("Form",
        ↪ "TextLabel"))
204         self.tabWidget.setTabText(self.tabWidget.indexOf(self
        ↪ .tab), _translate("Form",
        ↪ "视频源"))

```

```

205         self.tab1_label_3.setText(_translate("Form",
        ↪ "TextLabel"))
206         self.tabWidget.setTabText(self.tabWidget.indexOf(self
        ↪ .tab_2), _translate("Form",
        ↪ "面部"))
207         self.tab1_label_4.setText(_translate("Form",
        ↪ "TextLabel"))
208         self.tabWidget.setTabText(self.tabWidget.indexOf(self
        ↪ .tab_3), _translate("Form",
        ↪ "眼睛"))
209         self.tabWidget.setTabText(self.tabWidget.indexOf(self
        ↪ .tab_4), _translate("Form",
        ↪ "音频源"))
210         self.OK.setText(_translate("Form", " 确认"))

```

1.19 CvPyGui/ui/gui.py

```

1  # -*- coding: utf-8 -*-
2  # Form implementation generated from reading ui file 'gui.ui'
3  #
4  # Created by: PyQt5 UI code generator 5.9.2
5  #
6  # WARNING! All changes made in this file will be lost!
7  from PyQt5 import QtCore, QtGui, QtWidgets
8  class Ui_MainWindow(object):
9      def setupUi(self, MainWindow):
10         MainWindow.setObjectName("MainWindow")
11         MainWindow.resize(830, 578)
12         icon = QtGui.QIcon()
13         icon.addPixmap(QtGui.QPixmap("icon.ico"),
        ↪ QtGui.QIcon.Normal, QtGui.QIcon.Off)
14         MainWindow.setWindowIcon(icon)
15         self.centralwidget = QtWidgets.QWidget(MainWindow)
16         self.centralwidget.setObjectName("centralwidget")
17         self.verticalLayout_4 =
        ↪ QtWidgets.QVBoxLayout(self.centralwidget)
18         self.verticalLayout_4.setObjectName("verticalLayout_4
        ↪ ")

```

```
19         self.h_img_layout = QtWidgets.QHBoxLayout()
20         self.h_img_layout.setObjectName("h_img_layout")
21         self.original_img_v_layout = QtWidgets.QVBoxLayout()
22         self.original_img_v_layout.setObjectName("original_img_v_l
    ↪ _layout")
23         spacerItem = QtWidgets.QSpacerItem(20, 40,
    ↪ QtWidgets.QSizePolicy.Minimum,
    ↪ QtWidgets.QSizePolicy.Expanding)
24         self.original_img_v_layout.addItem(spacerItem)
25         self.original_name_label =
    ↪ QtWidgets.QLabel(self.centralwidget)
26         self.original_name_label.setScaledContents(False)
27         self.original_name_label.setAlignment(QtCore.Qt.AlignCe
    ↪ nter)
28         self.original_name_label.setObjectName("original_name_l
    ↪ bl")
29         self.original_img_v_layout.addWidget(self.original_name_
    ↪ label)
30         spacerItem1 = QtWidgets.QSpacerItem(20, 40,
    ↪ QtWidgets.QSizePolicy.Minimum,
    ↪ QtWidgets.QSizePolicy.Expanding)
31         self.original_img_v_layout.addItem(spacerItem1)
32         self.original_frame_label =
    ↪ QtWidgets.QLabel(self.centralwidget)
33         self.original_frame_label.setMinimumSize(QtCore.QSize(4
    ↪ 00,
    ↪ 240))
34         self.original_frame_label.setAlignment(QtCore.Qt.AlignC
    ↪ enter)
35         self.original_frame_label.setObjectName("original_frame
    ↪ _label")
36         self.original_img_v_layout.addWidget(self.original_frame
    ↪ _label)
37         spacerItem2 = QtWidgets.QSpacerItem(20, 40,
    ↪ QtWidgets.QSizePolicy.Minimum,
    ↪ QtWidgets.QSizePolicy.Expanding)
38         self.original_img_v_layout.addItem(spacerItem2)
39         self.h_img_layout.addLayout(self.original_img_v_layout)
40         self.processed_img_v_layout = QtWidgets.QVBoxLayout()
```

```
41     self.processed_img_v_layout.setObjectName("processed_img_v_
    ↳ _layout")
42     spacerItem3 = QtWidgets.QSpacerItem(20, 40,
    ↳ QtWidgets.QSizePolicy.Minimum,
    ↳ QtWidgets.QSizePolicy.Expanding)
43     self.processed_img_v_layout.addItem(spacerItem3)
44     self.processed_name_label =
    ↳ QtWidgets.QLabel(self.centralwidget)
45     self.processed_name_label.setAlignment(QtCore.Qt.AlignC
    ↳ enter)
46     self.processed_name_label.setObjectName("processed_name_
    ↳ _label")
47     self.processed_img_v_layout.addWidget(self.processed_nam
    ↳ e_label)
48     spacerItem4 = QtWidgets.QSpacerItem(20, 40,
    ↳ QtWidgets.QSizePolicy.Minimum,
    ↳ QtWidgets.QSizePolicy.Expanding)
49     self.processed_img_v_layout.addItem(spacerItem4)
50     self.processed_frame_label =
    ↳ QtWidgets.QLabel(self.centralwidget)
51     self.processed_frame_label.setMinimumSize(QtCore.QSize(
    ↳ 400,
    ↳ 240))
52     self.processed_frame_label.setBaseSize(QtCore.QSize(0,
    ↳ 0))
53     self.processed_frame_label.setText("")
54     self.processed_frame_label.setAlignment(QtCore.Qt.Align
    ↳ Center)
55     self.processed_frame_label.setObjectName("processed_fra
    ↳ me_label")
56     self.processed_img_v_layout.addWidget(self.processed_fra
    ↳ me_label)
57     spacerItem5 = QtWidgets.QSpacerItem(20, 40,
    ↳ QtWidgets.QSizePolicy.Minimum,
    ↳ QtWidgets.QSizePolicy.Expanding)
58     self.processed_img_v_layout.addItem(spacerItem5)
59     self.h_img_layout.addLayout(self.processed_img_v_layout)
60     self.verticalLayout_4.addLayout(self.h_img_layout)
61     self.horizontalLayout = QtWidgets.QHBoxLayout()
```

```
62         self.horizontalLayout.setObjectName("horizontalLayout_1")
        ↪     ")
63     self.verticalLayout_2 = QtWidgets.QVBoxLayout()
64     self.verticalLayout_2.setObjectName("verticalLayout_2")
        ↪     ")
65     self.label_3 = QtWidgets.QLabel(self.centralwidget)
66     self.label_3.setAlignment(QtCore.Qt.AlignCenter)
67     self.label_3.setObjectName("label_3")
68     self.verticalLayout_2.addWidget(self.label_3)
69     self.eye_lbl = QtWidgets.QLabel(self.centralwidget)
70     self.eye_lbl.setMinimumSize(QtCore.QSize(400, 240))
71     self.eye_lbl.setText("")
72     self.eye_lbl.setAlignment(QtCore.Qt.AlignCenter)
73     self.eye_lbl.setObjectName("eye_lbl")
74     self.verticalLayout_2.addWidget(self.eye_lbl)
75     self.horizontalLayout.addLayout(self.verticalLayout_2)
76     self.verticalLayout = QtWidgets.QVBoxLayout()
77     self.verticalLayout.setObjectName("verticalLayout")
78     self.label_2 = QtWidgets.QLabel(self.centralwidget)
79     self.label_2.setAlignment(QtCore.Qt.AlignCenter)
80     self.label_2.setObjectName("label_2")
81     self.verticalLayout.addWidget(self.label_2)
82     self.voice_lbl = QtWidgets.QLabel(self.centralwidget)
83     self.voice_lbl.setMinimumSize(QtCore.QSize(400, 240))
84     self.voice_lbl.setText("")
85     self.voice_lbl.setAlignment(QtCore.Qt.AlignCenter)
86     self.voice_lbl.setObjectName("voice_lbl")
87     self.verticalLayout.addWidget(self.voice_lbl)
88     self.horizontalLayout.addLayout(self.verticalLayout)
89     self.verticalLayout_4.addLayout(self.horizontalLayout)
90     self.h_btn_lay = QtWidgets.QHBoxLayout()
91     self.h_btn_lay.setObjectName("h_btn_lay")
92     self.initButton =
        ↪     QtWidgets.QPushButton(self.centralwidget)
93     self.initButton.setObjectName("initButton")
94     self.h_btn_lay.addWidget(self.initButton)
95     self.pushButton =
        ↪     QtWidgets.QPushButton(self.centralwidget)
96     self.pushButton.setObjectName("pushButton")
```



```
97         self.h_btn_layout.addWidget(self.pushButton)
98         spacerItem6 = QtWidgets.QSpacerItem(40, 20,
99         ↪ QtWidgets.QSizePolicy.Expanding,
100         ↪ QtWidgets.QSizePolicy.Minimum)
101         self.h_btn_layout.addItem(spacerItem6)
102         self.label = QtWidgets.QLabel(self.centralwidget)
103         self.label.setAlignment(QtCore.Qt.AlignRight|QtCore.Qt.
104         ↪ t.AlignTrailing|QtCore.Qt.AlignVCenter)
105         self.label.setObjectName("label")
106         self.h_btn_layout.addWidget(self.label)
107         self.lineEdit =
108         ↪ QtWidgets.QLineEdit(self.centralwidget)
109         self.lineEdit.setObjectName("lineEdit")
110         self.h_btn_layout.addWidget(self.lineEdit)
111         self.startButton =
112         ↪ QtWidgets.QPushButton(self.centralwidget)
113         self.startButton.setObjectName("startButton")
114         self.h_btn_layout.addWidget(self.startButton)
115         self.endButton =
116         ↪ QtWidgets.QPushButton(self.centralwidget)
117         self.endButton.setObjectName("endButton")
118         self.h_btn_layout.addWidget(self.endButton)
119         self.shotButton =
120         ↪ QtWidgets.QPushButton(self.centralwidget)
121         self.shotButton.setObjectName("shotButton")
122         self.h_btn_layout.addWidget(self.shotButton)
123         self.verticalLayout_4.addLayout(self.h_btn_layout)
124         self.v_filters_layout = QtWidgets.QVBoxLayout()
125         self.v_filters_layout.setObjectName("v_filters_layout")
126         self.verticalLayout_4.addLayout(self.v_filters_layout)
127         MainWindow.setCentralWidget(self.centralwidget)
128         self.menubar = QtWidgets.QMenuBar(MainWindow)
129         self.menubar.setGeometry(QtCore.QRect(0, 0, 1035, 23))
130         self.menubar.setObjectName("menubar")
131         self.menuHelp = QtWidgets.QMenu(self.menubar)
132         self.menuHelp.setObjectName("menuHelp")
133         self.menu = QtWidgets.QMenu(self.menubar)
134         self.menu.setObjectName("menu")
135         self.menu_2 = QtWidgets.QMenu(self.menubar)
```

```
129         self.menu_2.setObjectName("menu_2")
130     MainWindow.setMenuBar(self.menubar)
131     self.statusbar = QtWidgets.QStatusBar(MainWindow)
132     self.statusbar.setMinimumSize(QtCore.QSize(500, 30))
133     self.statusbar.setObjectName("statusbar")
134     MainWindow.setStatusBar(self.statusbar)
135     self.actionOpen_image = QtWidgets.QAction(MainWindow)
136     self.actionOpen_image.setObjectName("actionOpen_image")
137     self.actionSave_original_image =
138     ↪ QtWidgets.QAction(MainWindow)
139     self.actionSave_original_image.setObjectName("actionS_
140     ↪ ave_original_image")
141     self.actionSave_processed_image =
142     ↪ QtWidgets.QAction(MainWindow)
143     self.actionSave_processed_image.setObjectName("action_
144     ↪ Save_processed_image")
145     self.actionExit = QtWidgets.QAction(MainWindow)
146     self.actionExit.setObjectName("actionExit")
147     self.actionLicense = QtWidgets.QAction(MainWindow)
148     self.actionLicense.setObjectName("actionLicense")
149     self.actionAbout = QtWidgets.QAction(MainWindow)
150     self.actionAbout.setObjectName("actionAbout")
151     self.actionmanual = QtWidgets.QAction(MainWindow)
152     self.actionmanual.setObjectName("actionmanual")
153     self.action12 = QtWidgets.QAction(MainWindow)
154     self.action12.setObjectName("action12")
155     self.actionse = QtWidgets.QAction(MainWindow)
156     self.actionse.setObjectName("actionse")
157     self.menuHelp.addAction(self.actionmanual)
158     self.menuHelp.addAction(self.actionAbout)
159     self.menu_2.addAction(self.action12)
160     self.menu_2.addAction(self.actionse)
161     self.menubar.addAction(self.menu.menuAction())
162     self.menubar.addAction(self.menu_2.menuAction())
163     self.menubar.addAction(self.menuHelp.menuAction())
164     self.retranslateUi(MainWindow)
165     QtCore.QMetaObject.connectSlotsByName(MainWindow)
166     def retranslateUi(self, MainWindow):
```

```

163         _translate = QtCore.QCoreApplication.translate
164         MainWindow.setWindowTitle(_translate("MainWindow",
        ↳ "肢体表型特征采集系统---山东省精神卫生中心"))
165         self.original_name_lbl.setText(_translate("MainWindow",
        ↳ " ",
        ↳ "原始图像"))
166         self.processed_name_lbl.setText(_translate("MainWindo",
        ↳ "w",
        ↳ "肢体特征"))
167         self.label_3.setText(_translate("MainWindow",
        ↳ "标记图像"))
168         self.label_2.setText(_translate("MainWindow",
        ↳ "肢体轮廓"))
169         self.initButton.setText(_translate("MainWindow",
        ↳ "检测视频设备"))
170         self.pushButton.setText(_translate("MainWindow",
        ↳ "停用视频设备"))
171         self.label.setText(_translate("MainWindow", "样本编号:
        ↳ "))
172         self.startButton.setText(_translate("MainWindow",
        ↳ "开始录制"))
173         self.endButton.setText(_translate("MainWindow",
        ↳ "结束录制"))
174         self.shotButton.setText(_translate("MainWindow",
        ↳ "进程中止"))
175         self.menuHelp.setTitle(_translate("MainWindow",
        ↳ "帮助"))
176         self.menu.setTitle(_translate("MainWindow", " 文件"))
177         self.menu_2.setTitle(_translate("MainWindow", "设置"))
178         self.actionOpen_image.setText(_translate("MainWindow",
        ↳ "Open image"))
179         self.actionSave_original_image.setText(_translate("Ma",
        ↳ "inWindow", "Save original
        ↳ image"))
180         self.actionSave_processed_image.setText(_translate("M",
        ↳ "ainWindow", "Save processed
        ↳ image"))
181         self.actionExit.setText(_translate("MainWindow",
        ↳ "Exit"))

```

```
182         self.actionLicense.setText(_translate("MainWindow",
183             ↪ "License"))
184         self.actionAbout.setText(_translate("MainWindow",
185             ↪ "关于"))
186         self.actionmanual.setText(_translate("MainWindow",
187             ↪ "操作说明"))
188         self.action12.setText(_translate("MainWindow",
189             ↪ "设备选择"))
190         self.actionse.setText(_translate("MainWindow",
191             ↪ "文件设置"))
```
