

"""

Project = Third Eye : Surveillance System

Developer = Vikas Patel

"""

```
from PyQt5 import QtCore, QtGui, QtWidgets
from PyQt5.QtCore import QUrl, QPointF
from PyQt5.QtGui import QDesktopServices, QColor
from PyQt5.QtWidgets import QGraphicsDropShadowEffect
import surveillanceTest as surv
from Databases.database import SettingsDatabase

class Ui_MainWindow(object):

    def setupUi(self, MainWindow):
        self.s = None
        self.shadow = QGraphicsDropShadowEffect(blurRadius=18, offset=
QPointF(0.0, 0.0),color=QColor("#009dff"))
        self.btnShadow1 = QGraphicsDropShadowEffect(blurRadius=20, offset=
QPointF(0.0, 0.0),color=QColor("#e5ff00"))
        self.btnShadow2 = QGraphicsDropShadowEffect(blurRadius=20, offset=
QPointF(0.0, 0.0),color=QColor("#077a05"))
        self.btnShadow3 = QGraphicsDropShadowEffect(blurRadius=20, offset=
QPointF(0.0, 0.0),color=QColor("#ff1500"))
        # Setting Database
        self.sdb = SettingsDatabase()
        # Thresh Hold value
        self.thresh = self.sdb.get_sensitivity()
        # admin password
        self.passwd = self.sdb.get_password()
        # camera ip
        self.camera_ip = 0

        # Style Sheet
        self.style_sheet = """
        QPushButton{
            border: 1px solid #009dff;
            border-radius :1px 5px 5px 1px;
            background-color:#ffffff;
        }
        QPushButton:hover{
            background-color:#009dff;
```

```
        border-radius :15px;
        color: #ffffff;
        font-weight: 200;
        border-color: transparent;
    }

QPushButton#btn_alarm,QPushButton#btn_start_system,QPushButton#b
nt_stop_system{
    border-radius :10px 15px 15px 10px;
}

QPushButton#btn_alarm:hover,QPushButton#btn_start_system:hover,Q
PushButton#bnt_stop_system:hover{
    border-color:transparent;
    border-radius :20px 20px 50px 50px;
}
QPushButton#btn_alarm{
    border: 1px solid #e5ff00;
}
QPushButton#btn_start_system{
    border: 1px solid #3dfc03;
}
QPushButton#bnt_stop_system{
    border: 1px solid #fc7844;
}
QPushButton#btn_github:hover{
    background-color:#000000;
    color:#ffffff;
}
QPushButton#btn_apppage:hover{
    background-color:#6d1bfa;
    color:#ffffff;
}
QPushButton#btn_blog:hover{
    background-color:#fa691b;
    color:#ffffff;
}

QLineEdit{
    border: 1px solid #009dff;
    border-radius: 10px;
}
#toolBox{
    background-color : #d4eeff;
    border: 1px solid #032473;
```

```
    }  
    ""  
  
    MainWindow.setObjectName("MainWindow")  
    MainWindow.resize(640, 480)  
    MainWindow.setMinimumSize(QtCore.QSize(640, 480))  
    MainWindow.setMaximumSize(QtCore.QSize(640, 480))  
    icon = QtGui.QIcon()  
    icon.addPixmap(QtGui.QPixmap("Assets/PNGs/camera.png"), QtGui.QIcon.  
        .Normal, QtGui.QIcon.Off)  
    MainWindow.setWindowIcon(icon)  
    MainWindow.setTabShape(QtWidgets.QTabWidget.Rounded)  
    MainWindow.setDockNestingEnabled(True)  
    MainWindow.setUnifiedTitleAndToolBarOnMac(True)  
    MainWindow.setGraphicsEffect(self.shadow)  
    self.centralwidget = QtWidgets.QWidget(MainWindow)  
    self.centralwidget.setObjectName("centralwidget")  
    self.tab_group = QtWidgets.QTabWidget(self.centralwidget)  
    self.tab_group.setGeometry(QtCore.QRect(10, 0, 621, 431))  
    self.tab_group.setObjectName("tab_group")  
    self.tab_group.setGraphicsEffect(self.shadow)  
    self.shadow.setEnabled(True)  
    self.tab_home = QtWidgets.QWidget()  
    self.tab_home.setObjectName("tab_home")  
    self.frame_home = QtWidgets.QFrame(self.tab_home)  
    self.frame_home.setGeometry(QtCore.QRect(-10, -10, 631, 411))  
    self.frame_home.setStyleSheet("")  
    self.frame_home setFrameShape(QtWidgets.QFrame.StyledPanel)  
    self.frame_home setFrameShadow(QtWidgets.QFrame.Raised)  
    self.frame_home.setObjectName("frame_home")  
    self.btn_alarm = QtWidgets.QPushButton(self.frame_home)  
    self.btn_alarm.setGeometry(QtCore.QRect(440, 180, 161, 41))  
    self.btn_alarm.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))  
    self.btn_alarm.setAutoFillBackground(False)  
    icon1 = QtGui.QIcon()  
    icon1.addPixmap(QtGui.QPixmap(  
        ":/PICTURES/PNGs/Icon-material-access-alarm.png"), QtGui.QIcon.  
        Normal, QtGui.QIcon.On)  
    self.btn_alarm.setIcon(icon1)  
    self.btn_alarm.setIconSize(QtCore.QSize(32, 32))  
    self.btn_alarm.setAutoRepeat(False)  
    self.btn_alarm.setAutoDefault(False)  
    self.btn_alarm.setDefault(False)  
    self.btn_alarm.setFlat(False)  
    self.btn_alarm.setObjectName("btn_alarm")
```

```
self.btn_alarm.setGraphicsEffect(self.btnShadow1)
self.btn_start_system = QtWidgets.QPushButton(self.frame_home)
self.btn_start_system.setGeometry(QtCore.QRect(440, 240, 161, 41))
self.btn_start_system.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))
self.btn_start_system.setAutoFillBackground(False)
icon2 = QtGui.QIcon()
icon2.addPixmap(QtGui.QPixmap(":/home/32x32/search.png"), QtGui.
QIcon.Normal, QtGui.QIcon.Off)
self.btn_start_system.setIcon(icon2)
self.btn_start_system.setIconSize(QtCore.QSize(48, 48))
self.btn_start_system.setAutoRepeat(False)
self.btn_start_system.setAutoDefault(False)
self.btn_start_system.setDefault(False)
self.btn_start_system.setFlat(False)
self.btn_start_system.setObjectName("btn_start_system")
self.btn_start_system.setGraphicsEffect(self.btnShadow2)
self.home_picture = QtWidgets.QLabel(self.frame_home)
self.home_picture.setGeometry(QtCore.QRect(20, 40, 371, 321))
self.home_picture.setText("")
self.home_picture.setPixmap(QtGui.QPixmap(":/PICTURES/PNGs/Group
9.png"))
self.home_picture.setScaledContents(True)
self.home_picture.setObjectName("home_picture")
self.bnt_stop_system = QtWidgets.QPushButton(self.frame_home)
self.bnt_stop_system.setGeometry(QtCore.QRect(440, 300, 161, 41))
self.bnt_stop_system.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))
self.bnt_stop_system.setLayoutDirection(QtCore.Qt.LeftToRight)
self.bnt_stop_system.setAutoFillBackground(False)
icon3 = QtGui.QIcon()
icon3.addPixmap(QtGui.QPixmap(":/All/32x32/busy.png"), QtGui.QIcon.
Normal, QtGui.QIcon.Off)
self.bnt_stop_system.setIcon(icon3)
self.bnt_stop_system.setIconSize(QtCore.QSize(48, 48))
self.bnt_stop_system.setAutoRepeat(False)
self.bnt_stop_system.setAutoDefault(False)
self.bnt_stop_system.setDefault(False)
self.bnt_stop_system.setFlat(False)
self.bnt_stop_system.setObjectName("bnt_stop_system")
self.bnt_stop_system.setGraphicsEffect(self.btnShadow3)
self.logo = QtWidgets.QLabel(self.frame_home)
self.logo.setGeometry(QtCore.QRect(370, 40, 251, 91))
self.logo.setText("")
self.logo.setPixmap(QtGui.QPixmap(":/PICTURES/PNGs/logo.png"))
```

```
self.logo.setScaledContents(True)
self.logo.setObjectName("logo")
icon4 = QtGui.QIcon()
icon4.addPixmap(QtGui.QPixmap(":/home/32x32/home.png"), QtGui.QIcon.
.Normal, QtGui.QIcon.Off)
self.tab_group.addTab(self.tab_home, icon4, "")
self.tab_settings = QtWidgets.QWidget()
self.tab_settings.setObjectName("tab_settings")
self.frame_settings = QtWidgets.QFrame(self.tab_settings)
self.frame_settings.setGeometry(QtCore.QRect(10, -10, 631, 411))
self.frame_settings.setFrameShape(QtWidgets.QFrame.StyledPanel)
self.frame_settings.setFrameShadow(QtWidgets.QFrame.Raised)
self.frame_settings.setObjectName("frame_settings")
self.toolBox = QtWidgets.QToolBox(self.frame_settings)
self.toolBox.setGeometry(QtCore.QRect(20, 40, 411, 311))
font = QtGui.QFont()
font.setPointSize(12)
self.toolBox.setFont(font)
self.toolBox.setFrameShape(QtWidgets.QFrame.NoFrame)
self.toolBox.setObjectName("toolBox")
self.page = QtWidgets.QWidget()
self.page.setGeometry(QtCore.QRect(0, 0, 411, 212))
self.page.setObjectName("page")
self.label_2 = QtWidgets.QLabel(self.page)
self.label_2.setGeometry(QtCore.QRect(20, 20, 141, 31))
self.label_2.setFrameShape(QtWidgets.QFrame.NoFrame)
self.label_2.setObjectName("label_2")
self.ip_input = QtWidgets.QLineEdit(self.page)
self.ip_input.setGeometry(QtCore.QRect(170, 20, 231, 31))
self.ip_input.setObjectName("ip_input")
self.label_4 = QtWidgets.QLabel(self.page)
self.label_4.setGeometry(QtCore.QRect(20, 120, 141, 31))
self.label_4.setFrameShape(QtWidgets.QFrame.NoFrame)
self.label_4.setObjectName("label_4")
self.layoutWidget = QtWidgets.QWidget(self.page)
self.layoutWidget.setGeometry(QtCore.QRect(170, 120, 231, 31))
self.layoutWidget.setObjectName("layoutWidget")
self.horizontalLayout_3 = QtWidgets.QHBoxLayout(self.layoutWidget)
self.horizontalLayout_3.setSizeConstraint(QtWidgets.QLayout.
SetNoConstraint)
self.horizontalLayout_3.setContentsMargins(0, 0, 0, 0)
self.horizontalLayout_3.setSpacing(3)
self.horizontalLayout_3.setObjectName("horizontalLayout_3")
self.threshOP_low = QtWidgets.QLabel(self.layoutWidget)
self.threshOP_low.setEnabled(True)
```

```
font = QtGui.QFont()
font.setFamily("Lucida Sans Unicode")
self.threshOP_low.setFont(font)
self.threshOP_low.setFrameShape(QtWidgets.QFrame.NoFrame)
self.threshOP_low.setAlignment(QtCore.Qt.AlignCenter)
self.threshOP_low.setObjectName("threshOP_low")
self.horizontalLayout_3.addWidget(self.threshOP_low)
self.threshIN = QtWidgets.QSlider(self.layoutWidget)
self.threshIN.setMouseTracking(False)
self.threshIN.setMinimum(1)
self.threshIN.setMaximum(500)
self.threshIN.setOrientation(QtCore.Qt.Horizontal)
self.threshIN.setTickPosition(QtWidgets.QSlider.TicksAbove)
self.threshIN.setObjectName("threshIN")
self.threshIN.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))

self.horizontalLayout_3.addWidget(self.threshIN)
self.threshOP_high = QtWidgets.QLabel(self.layoutWidget)
self.threshOP_high.setEnabled(True)
font = QtGui.QFont()
font.setFamily("Lucida Sans Unicode")
self.threshOP_high.setFont(font)
self.threshOP_high.setFrameShape(QtWidgets.QFrame.NoFrame)
self.threshOP_high.setAlignment(QtCore.Qt.AlignCenter)
self.threshOP_high.setObjectName("threshOP_high")
self.horizontalLayout_3.addWidget(self.threshOP_high)
self.threshOP = QtWidgets.QLabel(self.layoutWidget)
self.threshOP.setEnabled(True)
font = QtGui.QFont()
font.setFamily("Lucida Sans Unicode")
self.threshOP.setFont(font)
self.threshOP.setFrameShape(QtWidgets.QFrame.Panel)
self.threshOP.setFrameShadow(QtWidgets.QFrame.Raised)
self.threshOP.setAlignment(QtCore.Qt.AlignCenter)
self.threshOP.setObjectName("threshOP")
self.horizontalLayout_3.addWidget(self.threshOP)
self.btn_reset_thresh = QtWidgets.QPushButton(self.page)
self.btn_reset_thresh.setGeometry(QtCore.QRect(240, 160, 111, 31))
font = QtGui.QFont()
font.setPointSize(10)
self.btn_reset_thresh.setFont(font)
self.btn_reset_thresh.setObjectName("btn_reset_thresh")
self.btn_reset_thresh.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))
```



```
self.btn_ip = QtWidgets.QPushButton(self.page)
self.btn_ip.setGeometry(QtCore.QRect(240, 60, 111, 31))
self.btn_ip.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
font = QtGui.QFont()
font.setPointSize(10)
self.btn_ip.setFont(font)
self.btn_ip.setObjectName("btn_ip")
self.line = QtWidgets.QFrame(self.page)
self.line.setGeometry(QtCore.QRect(10, 100, 391, 16))
self.line.setFrameShape(QtWidgets.QFrame.HLine)
self.line.setFrameShadow(QtWidgets.QFrame.Sunken)
self.line.setObjectName("line")
self.line_2 = QtWidgets.QFrame(self.page)
self.line_2.setGeometry(QtCore.QRect(0, 200, 411, 16))
self.line_2.setFrameShape(QtWidgets.QFrame.HLine)
self.line_2.setFrameShadow(QtWidgets.QFrame.Sunken)
self.line_2.setObjectName("line_2")
icon5 = QtGui.QIcon()
icon5.addPixmap(QtGui.QPixmap(":/PICTURES/PNGs/camera-vector.jpg"),
    QtGui.QIcon.Normal, QtGui.QIcon.Off)
self.toolBox.addItem(self.page, icon5, "")
self.page_2 = QtWidgets.QWidget()
self.page_2.setGeometry(QtCore.QRect(0, 0, 411, 212))
self.page_2.setObjectName("page_2")
self.label_3 = QtWidgets.QLabel(self.page_2)
self.label_3.setGeometry(QtCore.QRect(20, 10, 141, 31))
self.label_3.setFrameShape(QtWidgets.QFrame.StyledPanel)
self.label_3.setObjectName("label_3")
self.mobile_in = QtWidgets.QLineEdit(self.page_2)
self.mobile_in.setGeometry(QtCore.QRect(170, 10, 231, 31))
self.mobile_in.setObjectName("mobile_in")
self.label_5 = QtWidgets.QLabel(self.page_2)
self.label_5.setGeometry(QtCore.QRect(20, 60, 141, 31))
self.label_5.setFrameShape(QtWidgets.QFrame.StyledPanel)
self.label_5.setObjectName("label_5")
self.msg_in = QtWidgets.QLineEdit(self.page_2)
self.msg_in.setGeometry(QtCore.QRect(170, 60, 231, 31))
self.msg_in.setObjectName("msg_in")
self.label_6 = QtWidgets.QLabel(self.page_2)
self.label_6.setGeometry(QtCore.QRect(20, 110, 141, 31))
self.label_6.setFrameShape(QtWidgets.QFrame.StyledPanel)
self.label_6.setObjectName("label_6")
self.email_in = QtWidgets.QLineEdit(self.page_2)
self.email_in.setGeometry(QtCore.QRect(170, 110, 231, 31))
self.email_in.setObjectName("email_in")
```

```
self.line_3 = QtWidgets.QFrame(self.page_2)
self.line_3.setGeometry(QtCore.QRect(0, 200, 411, 16))
self.line_3.setFrameShape(QtWidgets.QFrame.HLine)
self.line_3.setFrameShadow(QtWidgets.QFrame.Sunken)
self.line_3.setObjectName("line_3")
icon6 = QtGui.QIcon()
icon6.addPixmap(QtGui.QPixmap(":/All/32x32/future-projects.png"),
QtGui.QIcon.Normal, QtGui.QIcon.Off)
self.toolbox.addItem(self.page_2, icon6, "")
self.page_3 = QtWidgets.QWidget()
self.page_3.setObjectName("page_3")
self.label_7 = QtWidgets.QLabel(self.page_3)
self.label_7.setGeometry(QtCore.QRect(10, 10, 141, 31))
self.label_7.setFrameShape(QtWidgets.QFrame.StyledPanel)
self.label_7.setObjectName("label_7")
self.pass_in = QtWidgets.QLineEdit(self.page_3)
self.pass_in.setGeometry(QtCore.QRect(160, 10, 231, 31))
self.pass_in.setObjectName("pass_in")
self.line_4 = QtWidgets.QFrame(self.page_3)
self.line_4.setGeometry(QtCore.QRect(0, 170, 411, 16))
self.line_4.setFrameShape(QtWidgets.QFrame.HLine)
self.line_4.setFrameShadow(QtWidgets.QFrame.Sunken)
self.line_4.setObjectName("line_4")
icon7 = QtGui.QIcon()
icon7.addPixmap(QtGui.QPixmap(":/All/32x32/lock.png"), QtGui.QIcon.
Normal, QtGui.QIcon.Off)
self.toolbox.addItem(self.page_3, icon7, "")
self.btn_setting_save = QtWidgets.QPushButton(self.frame_settings)
self.btn_setting_save.setGeometry(QtCore.QRect(450, 270, 141, 51))

font = QtGui.QFont()
font.setPointSize(12)
font.setBold(False)
font.setItalic(False)
font.setWeight(50)
self.btn_setting_save.setFont(font)
self.btn_setting_save.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))
icon8 = QtGui.QIcon()
icon8.addPixmap(QtGui.QPixmap(":/All/32x32/check.png"), QtGui.QIcon
.Normal, QtGui.QIcon.Off)
self.btn_setting_save.setIcon(icon8)
self.btn_setting_save.setObjectName("btn_setting_save")
self.btn_settings_reset = QtWidgets.QPushButton(self.frame_settings)
self.btn_settings_reset.setGeometry(QtCore.QRect(450, 200, 141, 51))
```



```
font = QtGui.QFont()
font.setPointSize(12)
font.setBold(False)
font.setItalic(False)
font.setWeight(50)
self.btn_settings_reset.setFont(font)
self.btn_settings_reset.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))
self.btn_settings_reset.setObjectName("btn_settings_reset")
self.label_8 = QtWidgets.QLabel(self.frame_settings)
self.label_8.setGeometry(QtCore.QRect(30, 370, 551, 31))
font = QtGui.QFont()
font.setPointSize(12)
self.label_8.setFont(font)
self.label_8.setObjectName("label_8")
self.label_9 = QtWidgets.QLabel(self.frame_settings)
self.label_9.setGeometry(QtCore.QRect(450, 60, 151, 91))
self.label_9.setText("")
self.label_9.setPixmap(QtGui.QPixmap(":/PICTURES/PNGs/Group 10.png"
))
self.label_9.setScaledContents(True)
self.label_9.setObjectName("label_9")
icon9 = QtGui.QIcon()
icon9.addPixmap(QtGui.QPixmap(":/settings/32x32/config.png"), QtGui
.QIcon.Normal, QtGui.QIcon.Off)
self.tab_group.addTab(self.tab_settings, icon9, "")
self.tab_about = QtWidgets.QWidget()
self.tab_about.setObjectName("tab_about")
self.frame_about = QtWidgets.QFrame(self.tab_about)
self.frame_about.setGeometry(QtCore.QRect(-10, -10, 631, 421))
self.frame_about.setFrameShape(QtWidgets.QFrame.StyledPanel)
self.frame_about.setFrameShadow(QtWidgets.QFrame.Raised)
self.frame_about.setObjectName("frame_about")
self.btn_github = QtWidgets.QPushButton(self.frame_about)
self.btn_github.setGeometry(QtCore.QRect(420, 300, 81, 31))
self.btn_github.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))

font = QtGui.QFont()
font.setPointSize(12)
self.btn_github.setFont(font)
self.btn_github.setObjectName("btn_github")
self.label = QtWidgets.QLabel(self.frame_about)
self.label.setGeometry(QtCore.QRect(400, 20, 211, 211))
```

```
self.label.setText("")
self.label.setPixmap(QtGui.QPixmap(
    ":/PICTURES/Pictures/vikas_icon.jpg"))
self.label.setScaledContents(True)
self.label.setObjectName("label")
self.textEdit = QtWidgets.QTextEdit(self.frame_about)
self.textEdit.setGeometry(QtCore.QRect(20, 20, 371, 271))
font = QtGui.QFont()
font.setPointSize(14)
self.textEdit.setFont(font)
self.textEdit.setObjectName("textEdit")
self.textBrowser = QtWidgets.QTextBrowser(self.frame_about)
self.textBrowser.setGeometry(QtCore.QRect(80, 240, 256, 71))
self.textBrowser.setObjectName("textBrowser")
self.btn_twitter = QtWidgets.QPushButton(self.frame_about)
self.btn_twitter.setGeometry(QtCore.QRect(516, 300, 81, 31))
self.btn_twitter.setCursor(QtGui.QCursor(QtCore.Qt.
    PointingHandCursor))

font = QtGui.QFont()
font.setPointSize(12)
self.btn_twitter.setFont(font)
self.btn_twitter.setObjectName("btn_twitter")
self.btn_blog = QtWidgets.QPushButton(self.frame_about)
self.btn_blog.setGeometry(QtCore.QRect(420, 262, 81, 31))
self.btn_blog.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))

font = QtGui.QFont()
font.setPointSize(12)
self.btn_blog.setFont(font)
self.btn_blog.setObjectName("btn_blog")
self.btn_apppage = QtWidgets.QPushButton(self.frame_about)
self.btn_apppage.setGeometry(QtCore.QRect(516, 262, 81, 31))
self.btn_apppage.setCursor(QtGui.QCursor(QtCore.Qt.
    PointingHandCursor))

font = QtGui.QFont()
font.setPointSize(12)
self.btn_apppage.setFont(font)
self.btn_apppage.setObjectName("btn_apppage")
icon10 = QtGui.QIcon()
icon10.addPixmap(QtGui.QPixmap(":/about-person/32x32/user.png"),
    QtGui.QIcon.Normal, QtGui.QIcon.Off)
self.tab_group.addTab(self.tab_about, icon10, "")
self.tab_contact = QtWidgets.QWidget()
```

```
self.tab_contact.setObjectName("tab_contact")
self.frame_contact = QtWidgets.QFrame(self.tab_contact)
self.frame_contact.setGeometry(QtCore.QRect(-10, -10, 631, 421))
self.frame_contact setFrameShape(QtWidgets.QFrame.StyledPanel)
self.frame_contact setFrameShadow(QtWidgets.QFrame.Raised)
self.frame_contact.setObjectName("frame_contact")
self.groupBox = QtWidgets.QGroupBox(self.frame_contact)
self.groupBox.setGeometry(QtCore.QRect(30, 30, 571, 71))
font = QtGui.QFont()
font.setPointSize(12)
self.groupBox.setFont(font)
self.groupBox.setObjectName("groupBox")
self.plainTextEdit = QtWidgets.QPlainTextEdit(self.groupBox)
self.plainTextEdit.setGeometry(QtCore.QRect(60, 30, 261, 31))
self.plainTextEdit.setObjectName("plainTextEdit")
self.btn_email = QtWidgets.QPushButton(self.groupBox)
self.btn_email.setGeometry(QtCore.QRect(380, 30, 131, 31))
self.btn_email.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
```

```
font = QtGui.QFont()
font.setPointSize(12)
self.btn_email.setFont(font)
self.btn_email.setObjectName("btn_email")
self.groupBox_2 = QtWidgets.QGroupBox(self.frame_contact)
self.groupBox_2.setGeometry(QtCore.QRect(30, 110, 571, 71))
font = QtGui.QFont()
font.setPointSize(12)
self.groupBox_2.setFont(font)
self.groupBox_2.setObjectName("groupBox_2")
self.plainTextEdit_2 = QtWidgets.QPlainTextEdit(self.groupBox_2)
self.plainTextEdit_2.setGeometry(QtCore.QRect(60, 30, 261, 31))
self.plainTextEdit_2.setObjectName("plainTextEdit_2")
self.btn_website = QtWidgets.QPushButton(self.groupBox_2)
self.btn_website.setGeometry(QtCore.QRect(380, 30, 131, 31))
self.btn_website.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
```

```
font = QtGui.QFont()
font.setPointSize(12)
self.btn_website.setFont(font)
self.btn_website.setObjectName("btn_website")
self.groupBox_3 = QtWidgets.QGroupBox(self.frame_contact)
self.groupBox_3.setGeometry(QtCore.QRect(30, 190, 571, 161))
font = QtGui.QFont()
```

```
font.setPointSize(12)
self.groupBox_3.setFont(font)
self.groupBox_3.setObjectName("groupBox_3")
self.plainTextEdit_3 = QtWidgets.QPlainTextEdit(self.groupBox_3)
self.plainTextEdit_3.setGeometry(QtCore.QRect(60, 30, 261, 31))
self.plainTextEdit_3.setObjectName("plainTextEdit_3")
self.btn_twitter_2 = QtWidgets.QPushButton(self.groupBox_3)
self.btn_twitter_2.setGeometry(QtCore.QRect(380, 30, 131, 31))
self.btn_twitter_2.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))

font = QtGui.QFont()
font.setPointSize(12)
self.btn_twitter_2.setFont(font)
self.btn_twitter_2.setObjectName("btn_twitter_2")
self.plainTextEdit_4 = QtWidgets.QPlainTextEdit(self.groupBox_3)
self.plainTextEdit_4.setGeometry(QtCore.QRect(60, 70, 261, 31))
self.plainTextEdit_4.setObjectName("plainTextEdit_4")
self.btn_github_2 = QtWidgets.QPushButton(self.groupBox_3)
self.btn_github_2.setGeometry(QtCore.QRect(380, 70, 131, 31))
self.btn_github_2.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))

font = QtGui.QFont()
font.setPointSize(12)
self.btn_github_2.setFont(font)
self.btn_github_2.setObjectName("btn_github_2")
self.btn_instamojo = QtWidgets.QPushButton(self.groupBox_3)
self.btn_instamojo.setGeometry(QtCore.QRect(380, 110, 131, 31))
self.btn_instamojo.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))

font = QtGui.QFont()
font.setPointSize(12)
self.btn_instamojo.setFont(font)
self.btn_instamojo.setObjectName("btn_instamojo")
self.plainTextEdit_5 = QtWidgets.QPlainTextEdit(self.groupBox_3)
self.plainTextEdit_5.setGeometry(QtCore.QRect(60, 110, 261, 31))
self.plainTextEdit_5.setObjectName("plainTextEdit_5")
icon11 = QtGui.QIcon()
icon11.addPixmap(QtGui.QPixmap(":/home/32x32/contact.png"), QtGui.
QIcon.Normal, QtGui.QIcon.Off)
self.tab_group.addTab(self.tab_contact, icon11, "")
self.tab_donate = QtWidgets.QWidget()
self.tab_donate.setObjectName("tab_donate")
```

```
self.frame_donate = QtWidgets.QFrame(self.tab_donate)
self.frame_donate.setGeometry(QtCore.QRect(-10, -10, 631, 421))
self.frame_donate.setFrameShape(QtWidgets.QFrame.StyledPanel)
self.frame_donate.setFrameShadow(QtWidgets.QFrame.Raised)
self.frame_donate.setObjectName("frame_donate")
self.groupBox_4 = QtWidgets.QGroupBox(self.frame_donate)
self.groupBox_4.setGeometry(QtCore.QRect(30, 40, 571, 71))
font = QtGui.QFont()
font.setPointSize(12)
self.groupBox_4.setFont(font)
self.groupBox_4.setObjectName("groupBox_4")
self.plainTextEdit_6 = QtWidgets.QPlainTextEdit(self.groupBox_4)
self.plainTextEdit_6.setGeometry(QtCore.QRect(60, 30, 261, 31))
self.plainTextEdit_6.setObjectName("plainTextEdit_6")
self.btn_paypal = QtWidgets.QPushButton(self.groupBox_4)
self.btn_paypal.setGeometry(QtCore.QRect(380, 30, 131, 31))
self.btn_paypal.setCursor(QtGui.QCursor(QtCore.Qt.
PointingHandCursor))

font = QtGui.QFont()
font.setPointSize(12)
self.btn_paypal.setFont(font)
self.btn_paypal.setObjectName("btn_paypal")
self.groupBox_5 = QtWidgets.QGroupBox(self.frame_donate)
self.groupBox_5.setGeometry(QtCore.QRect(30, 130, 571, 71))
font = QtGui.QFont()
font.setPointSize(12)
self.groupBox_5.setFont(font)
self.groupBox_5.setObjectName("groupBox_5")
self.plainTextEdit_7 = QtWidgets.QPlainTextEdit(self.groupBox_5)
self.plainTextEdit_7.setGeometry(QtCore.QRect(60, 30, 261, 31))
self.plainTextEdit_7.setObjectName("plainTextEdit_7")
icon12 = QtGui.QIcon()
icon12.addPixmap(QtGui.QPixmap(":/home/32x32/donate.png"), QtGui.
QIcon.Normal, QtGui.QIcon.Off)
self.tab_group.addTab(self.tab_donate, icon12, "")
MainWindow.setCentralWidget(self.centralwidget)
self.menubar = QtWidgets.QMenuBar(MainWindow)
self.menubar.setGeometry(QtCore.QRect(0, 0, 640, 23))
self.menubar.setObjectName("menubar")
MainWindow.setMenuBar(self.menubar)
self.statusBar = QtWidgets.QStatusBar(MainWindow)
self.statusBar.setObjectName("statusBar")
MainWindow.setStatusBar(self.statusBar)
MainWindow.setStyleSheet(self.style_sheet)
```

```

self.statusBar.showMessage('Services Started | Click Start System
to Start the Serveillance System')

""" bind buttons with actions """
#####

self.threshIN.setValue(int(self.thresh))
self.threshOP.setText(self.thresh)

self.btn_blog.clicked.connect(self.openBlog)
self.btn_website.clicked.connect(self.openBlog)
self.btn_apppage.clicked.connect(self.openAppPage)
self.btn_twitter.clicked.connect(self.openTwitter)
self.btn_twitter_2.clicked.connect(self.openTwitter)
self.btn_github.clicked.connect(self.openGithub)
self.btn_github_2.clicked.connect(self.openGithub)
self.btn_instamojo.clicked.connect(self.openInstamojo)
self.btn_paypal.clicked.connect(self.openPaypal)
self.btn_email.clicked.connect(self.sendEmail)

self.btn_start_system.clicked.connect(self.startSystem) # start
system
self.bnt_stop_system.clicked.connect(self.stopSystem) # stop system
self.btn_alarm.clicked.connect(self.startAlarm) # start alarm

self.btn_ip.clicked.connect(self.saveCameraIP) # connect
self.btn_reset_thresh.clicked.connect(self.resetThresh) #
resetThresh
self.btn_settings_reset.clicked.connect(self.cancelIt) # cancel
self.btn_setting_save.clicked.connect(self.saveSettings) # save
Settings
self.threshIN.valueChanged.connect(self.getThresh) # Sensitivity
slider
self.btn_alarm.setEnabled(False)
self.bnt_stop_system.setEnabled(False)

#####

self.retranslateUi(MainWindow)
self.tab_group.setCurrentIndex(0)
self.toolBox.setCurrentIndex(0)

```



```
self.threshIN.valueChanged['int'].connect(self.threshOP.setNum)
QtCore.QMetaObject.connectSlotsByName(MainWindow)
```

```
#####
```

```
def openBlog(self):
```

```
    docDir = "www.villageprogrammer.blogspot.com/"
    QDesktopServices.openUrl(QUrl(docDir))
```

```
def openAppPage(self):
```

```
    docDir = "www.villageprogrammer.blogspot.com/"
    QDesktopServices.openUrl(QUrl(docDir))
```

```
def openGithub(self):
```

```
    docDir = "https://www.github.com/vikaspatelp83"
    QDesktopServices.openUrl(QUrl(docDir))
```

```
def openTwitter(self):
```

```
    docDir = "https://www.twitter.com/devdp430"
    QDesktopServices.openUrl(QUrl(docDir))
```

```
def openInstamojo(self):
```

```
    docDir = "https://www.instamojo.com/villageprogrammer"
    QDesktopServices.openUrl(QUrl(docDir))
```

```
def openPaypal(self):
```

```
    docDir = "https://www.paypal.me/vikaspatelp83"
    QDesktopServices.openUrl(QUrl(docDir))
```

```
def sendEmail(self):
```

```
    docDir =
    'mailto:vikaspatelp83@gmail.com?Subject=Hello%20from%20third%20eye!'
    QDesktopServices.openUrl(QUrl(docDir))
```

```
#####
```

```
def saveCameraIP(self):
```

```
    ip = self.ip_input.text()
```

```
    if ip!=" " or ip!="":
```

```
        self.camera_ip = ip
```

```
    else:
```

```
        self.camera_ip = 0
```

```
    print(self.camera_ip)
```

```
    self.statusBar.showMessage("ðŸ“‘ Video Feed Address Saved : "+str(
    self.camera_ip))
```

""" Will implement later """

```
def saveSettings(self):
    password = self.pass_in.text()
    thresh = self.thresh
    mob = self.mobile_in.text()
    email = self.email_in.text()
    msg = self.msg_in.text()
    print(email)
    if not thresh==" and not mob==" and not email==" and not msg=="":
        if password == self.passwd:
            self.sdb.set_sensitivity(thresh)
            self.sdb.set_mobile(mob)
            self.sdb.set_email(email)
            self.sdb.set_message(msg)
            print("Saving settings")
            self.statusBar.showMessage("ðŸ’¼ Settings Saved")
        else:
            self.statusBar.showMessage("â€œâ€œâ€œâ€œWrong Password")
    elif not thresh==" and mob==" and email==" and msg=="":
        if password == self.passwd:
            self.sdb.set_sensitivity(thresh)
            print("Sensitivity Updated")
            self.statusBar.showMessage("ðŸ’¼ Sensitivity Updated")
        else:
            self.statusBar.showMessage("â€œâ€œâ€œâ€œ Wrong Password")
    else:
        self.statusBar.showMessage("Empty Input Field. Please fill the correct info.")

    print(self.sdb.getAll())

def getThresh(self,value):
    self.thresh = value
    print(self.thresh)

def resetThresh(self):
    print(self.thresh)
    self.sdb.set_sensitivity(20)
    self.statusBar.showMessage("Sensitivity Set to Default")
```

```
def cancelIt(self):
    pass
```

```
"""
```

```
Main Actions
```

```
"""
```

```
def startAlarm(self):
    surv.start_alarm(self.s)
    print("Alarm Started")
    self.statusBar.showMessage("⚠ Alarm Started")
```

```
def startSystem(self):
    self.s = surv.start_system(self.camera_ip)
    self.btn_alarm.setEnabled(True)
    self.bnt_stop_system.setEnabled(True)
    self.btn_start_system.setEnabled(False)
    print("System started")
    self.statusBar.showMessage("💻 System Started")
```

```
def stopSystem(self):
    surv.stop_system(self.s)
    self.btn_start_system.setEnabled(True)
    self.btn_alarm.setEnabled(False)
    self.bnt_stop_system.setEnabled(False)
    print("system stopped")
    self.statusBar.showMessage("⏹ System Stopped")
```

```
#####
```

```
def retranslateUi(self, MainWindow):
    _translate = QtCore.QCoreApplication.translate
    MainWindow.setWindowTitle(_translate("MainWindow", "Third Eye :
    Surveillance System"))
    self.btn_alarm.setText(_translate("MainWindow", "    START ALARM"))
    self.btn_start_system.setText(_translate("MainWindow", "    START
    SYSTEM"))
    self.bnt_stop_system.setText(_translate("MainWindow", "    STOP
    SYSTEM"))
    self.tab_group.setTabText(self.tab_group.indexOf(self.tab_home),
```

```

_translate("MainWindow", "Home"))
self.label_2.setText(_translate("MainWindow", "IP Address"))
self.label_4.setText(_translate("MainWindow", "Sensitivity"))
self.threshOP_low.setText(_translate("MainWindow", "0"))
self.threshOP_high.setText(_translate("MainWindow", "500"))
self.threshOP.setText(_translate("MainWindow", str(self.thresh)))
self.btn_reset_thresh.setText(_translate("MainWindow", "Reset
Sensitivity"))
self.btn_ip.setText(_translate("MainWindow", "Connect"))
self.toolBox.setItemText(self.toolBox.indexOf(self.page),
_translate("MainWindow", "Camera Settings"))
self.label_3.setText(_translate("MainWindow", "Mobile Number"))
self.label_5.setText(_translate("MainWindow", "Alert Message"))
self.label_6.setText(_translate("MainWindow", "Alert Email"))
self.toolBox.setItemText(self.toolBox.indexOf(self.page_2),
_translate("MainWindow", "Alert Settings"))
self.label_7.setText(_translate("MainWindow", "Password"))
self.toolBox.setItemText(self.toolBox.indexOf(self.page_3),
_translate("MainWindow", "Admin Password"))
self.btn_setting_save.setText(_translate("MainWindow", "Save
Settings"))
self.btn_settings_reset.setText(_translate("MainWindow", "Cancel"))
self.label_8.setText(_translate("MainWindow", "Enter your admin
password and click \"Save Settings\" to save new settings.))
self.tab_group.setTabText(self.tab_group.indexOf(self.tab_settings
), _translate("MainWindow", "Settings"))
self.btn_github.setText(_translate("MainWindow", "GitHub"))
self.textEdit.setHtml(_translate("MainWindow", "<!DOCTYPE HTML
PUBLIC \"-//W3C//DTD HTML 4.0//EN\"
\"http://www.w3.org/TR/REC-html40/strict.dtd\">\n"

```

```

"<html><head><meta name=\"qrichtext\" content=\"1\" /><style
type=\"text/css\">\n"

```

```

"p, li { white-space: pre-wrap; }\n"

```

```

"</style></head><body style=\" font-family:\'MS Shell Dlg 2\';
font-size:14pt; font-weight:400; font-style:normal;\">>\n"

```

```

"<p style=\"-qt-paragraph-type:empty; margin-top:0px; margin-bottom:0px;
margin-left:0px; margin-right:0px; -qt-block-indent:0;
text-indent:0px;\">><br /></p>\n"

```

```

"<p style=\" margin-top:0px; margin-bottom:0px; margin-left:0px;
margin-right:0px; -qt-block-indent:0; text-indent:0px;\">><span style=\"
font-weight:600;\">>Third Eye</span> is a Surveillance System. Capable of
detecting motion and will alert you in case of security breach using SMS,
Email and Alarm System.</p>\n"

```

```

"<p style=\" margin-top:0px; margin-bottom:0px; margin-left:0px;
margin-right:0px; -qt-block-indent:0; text-indent:0px;\">>Third Eye is

```

developed by <a href=\"https://www.github.com/vikaspatelp83\"><span style=\" font-weight:600; text-decoration: underline; color:#0000ff;\">Vikas Patel </span></a>at DTech Software aka Villageprogrammer.</p></body></html>"))

```
self.textBrowser.setHtml(_translate("MainWindow", "<!DOCTYPE HTML
PUBLIC \"-//W3C//DTD HTML 4.0//EN\"
\"http://www.w3.org/TR/REC-html40/strict.dtd\">\n"
```

```
"<html><head><meta name=\"qrichtext\" content=\"1\" /><style
type=\"text/css\">\n"
```

```
"p, li { white-space: pre-wrap; }\n"
```

```
"</style></head><body style=\" font-family:\'MS Shell Dlg 2\';
font-size:8.25pt; font-weight:400; font-style:normal;\">\n"
```

```
"<p style=\" margin-top:0px; margin-bottom:0px; margin-left:0px;
margin-right:0px; -qt-block-indent:0; text-indent:0px;\"><span style=\"
font-size:16pt; font-weight:600;\">Open Source
Software</span></p></body></html>"))
```

```
self.btn_twitter.setText(_translate("MainWindow", "Twitter"))
```

```
self.btn_blog.setText(_translate("MainWindow", "Blog"))
```

```
self.btn_apppage.setText(_translate("MainWindow", "App Page"))
```

```
self.tab_group.setTabText(self.tab_group.indexOf(self.tab_about),
_translate("MainWindow", "About"))
```

```
self.groupBox.setTitle(_translate("MainWindow", "Email Me"))
```

```
self.plainTextEdit.setPlainText(_translate("MainWindow",
"vikaspatelp83@gmail.com"))
```

```
self.btn_email.setText(_translate("MainWindow", "Send Email"))
```

```
self.groupBox_2.setTitle(_translate("MainWindow", "Website"))
```

```
self.plainTextEdit_2.setPlainText(_translate("MainWindow",
"www.villageprogrammer.tech"))
```

```
self.btn_website.setText(_translate("MainWindow", "Open in Browser"
))
```

```
self.groupBox_3.setTitle(_translate("MainWindow", "Follow Me"))
```

```
self.plainTextEdit_3.setPlainText(_translate("MainWindow",
"Twitter"))
```

```
self.btn_twitter_2.setText(_translate("MainWindow", "Open in
Browser"))
```

```
self.plainTextEdit_4.setPlainText(_translate("MainWindow", "Git Hub"
))
```

```
self.btn_github_2.setText(_translate("MainWindow", "Open in
Browser"))
```

```
self.btn_instamojo.setText(_translate("MainWindow", "Open in
Browser"))
```

```
self.plainTextEdit_5.setPlainText(_translate("MainWindow", "Buy
Books at Instamojo"))
```

```
self.tab_group.setTabText(self.tab_group.indexOf(self.tab_contact),
_translate("MainWindow", "Contact"))
```

```
self.groupBox_4.setTitle(_translate("MainWindow", "Paypal"))
self.plainTextEdit_6.setPlainText(_translate("MainWindow",
"www.paypal.me/vikaspatelp83"))
self.btn_paypal.setText(_translate("MainWindow", "Open Paypal"))
self.groupBox_5.setTitle(_translate("MainWindow", "Paytm"))
self.plainTextEdit_7.setPlainText(_translate("MainWindow",
"9575357966"))
self.tab_group.setTabText(self.tab_group.indexOf(self.tab_donate),
_translate("MainWindow", "Donate"))
```

```
# import Image Resources
import resource_icons
```

```
if __name__ == "__main__":
    import sys
    app = QtWidgets.QApplication(sys.argv)
    app.setStyle('Fusion')
    MainWindow = QtWidgets.QMainWindow()
    ui = Ui_MainWindow()
    ui.setupUi(MainWindow)
    MainWindow.show()
    sys.exit(app.exec_())
```