

实习总结答辩

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项目总结

PART 01 工作概述

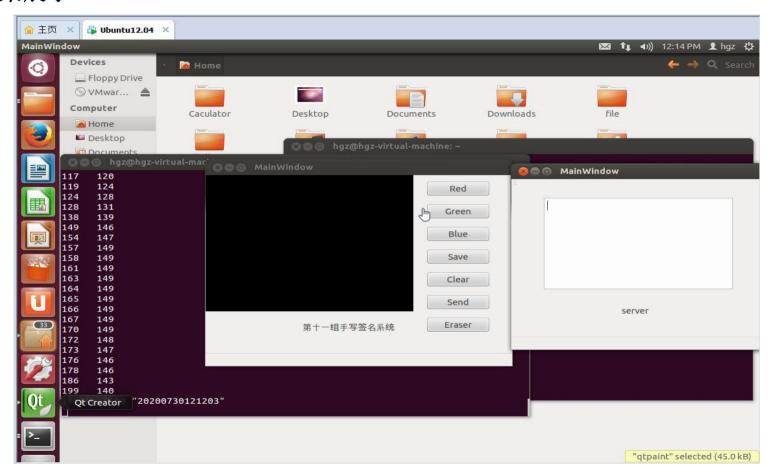
PART 02 功能展示

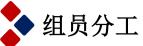
功能展示视频

PART 03 项目总结

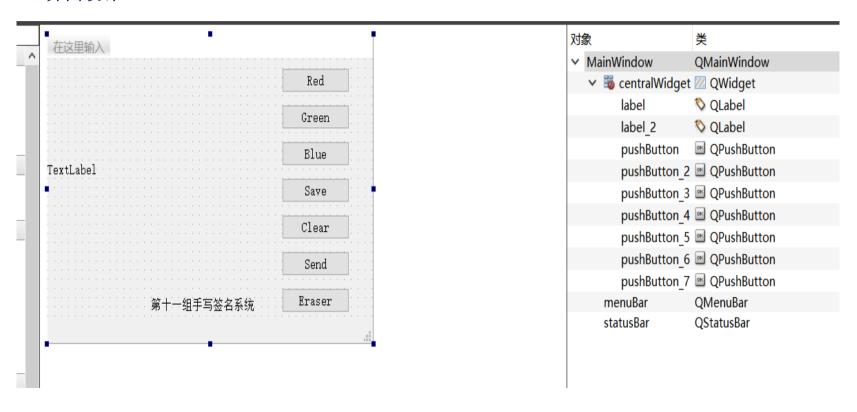


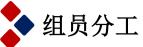
成果展示



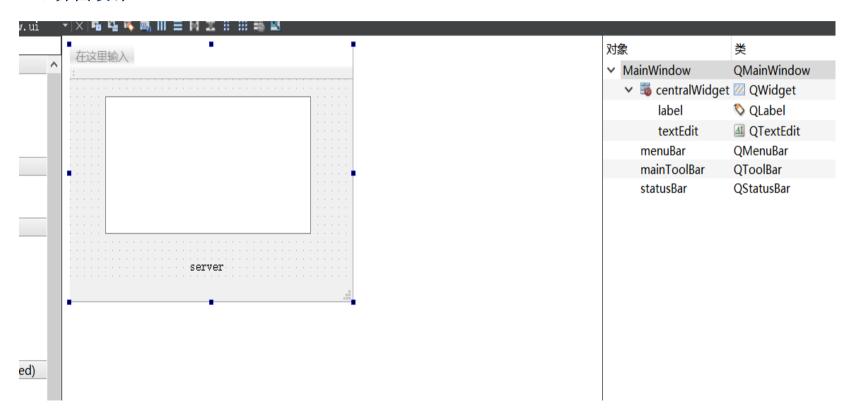


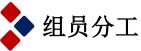
Ui界面设计:





Ui界面设计:





鼠标字迹获取代码:

```
void MainWindow::mousePressEvent(QMouseEvent * event)
     gDebug() <<event->x()<<" "<<event->v();
     int x=event->x();
     int y=event->y();
     QPainter painter(&imgpix);
     painter.setPen(pen);
     painter.drawPoint(x,y);
     ui->label->setPixmap(imgpix);
 void MainWindow::mouseMoveEvent(OMouseEvent *event)
     qDebug() <<event->pos().x()<<" "<<event->pos().y();
     int x=event->x():
     int y=event->y();
     QPainter painter(&imgpix);
     painter.setPen(pen);
     painter.drawPoint(x,y);
     ui->label->setPixmap(imgpix);
```

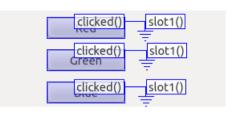
```
143
     50
     52
142
                                                             MainWindow
     54
141
     56
                                                                                                   Red
     58
     61
     64
                                                                                                  Green
     66
     68
132
                                                                                                   Blue
     70
129
                                                                                                   Save
128
127
                                                                                                   Clear
125
124
    79
122
                                                                                                   Send
     81
121
     82
120
     85
                                                                           第十一组手写签名系统
                                                                                                  Eraser
125
     90
119
     87
120
     88
191
192
```

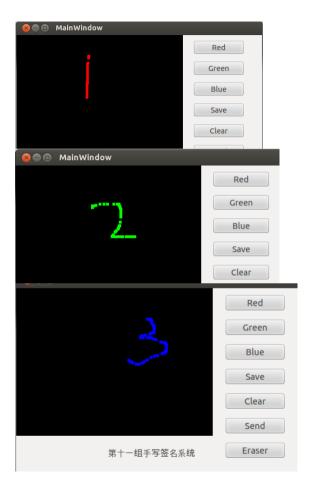


组员分工

画笔颜色按钮实现代码:

```
void MainWindow::slot1()
   QPushButton *button = (QPushButton *)sender();
   QString s = button->text();
  if(s.compare("Red")==0)
      pen.setColor(Qt::red);
      pen.setWidth(5);
  if(s.compare("Green")==0)
      pen.setColor(Qt::green);
      pen.setWidth(5);
  if(s.compare("Blue")==0)
      pen.setColor(Qt::blue);
      pen.setWidth(5);
```

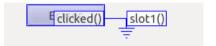




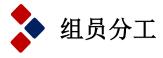


橡皮擦的实现:

```
if(s.compare("Eraser")==0)
{
    pen.setColor(Qt::black);
    pen.setWidth(25);
}
```



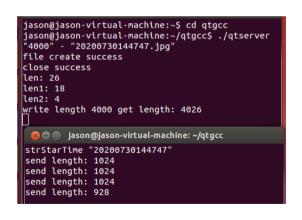




保存、清除、发送、橡皮擦按钮实现代码:

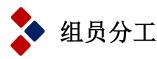
```
if(s.compare("Save")==0)
    ODateTime time=ODateTime::currentDateTime():
    strStarTime = time.toString("yyyyMMddhhmmss");
    qDebug()<<"strStarTime"<<strStarTime;</pre>
    QString filepath = "/opt/qt/";
    name = filepath+strStarTime:
    imgpix.save(name+".jpg");
if(s.compare("Clear")==0)
    imgpix.fill(Qt::black);
    ui->label->setPixmap(imqpix);
if(s.compare("Send")==0)
    sendfile();
if(s.compare("Eraser")==0)
    pen.setColor(0t::black);
    pen.setWidth(25):
```











发送实现代码:

```
void MainWindow::sendfile()
   pname = name+".jpg";
   int fd = open(pname.toStdString().c str(),0 RDONLY);
   struct stat filesata:
   stat(pname.toStdString().c str().&filesata):
   int filesize = filesata.st size:
   OString sfilesize:
   sfilesize.setNum(filesize);
   OString fileinfo = "f:"+sfilesize:
   fileinfo =fileinfo+":":
   fileinfo = fileinfo+strStarTime+".jpg";
   fileinfo = fileinfo+":":
   //send file info
   socket->write(fileinfo.toLatin1()):
   ::close(fd);
  file = new OFile(pname.toStdString().c str());
  if (!file->open(QIODevice::ReadOnly))
       return;
   while (!file->atEnd()) {
        QByteArray line = file->read(1024);
        QString s(line);
       usleep(100000):
        gDebug() <<"send length:"<< line.length();</pre>
        socket->write(line);
  file->close():
```

```
send length: 1024
send length: 1024
send length: 1024
send length: 928
```

一个小问题:

```
on 4096 7月 29 10:01 ...
on 2953 7月 29 23:40 20200729234038.jpg
on 182 7月 28 10:29 main.cpp
on 3757 7月 29 23:32 mainwindow.cpp
on 1030 7月 29 23:00 mainwindow.h
on 5102 7月 29 17:17 mainwindow.ui
on 2946 7月 29 23:40 n_20200729234038.jpg
on 319 7月 29 10:04 qtpaint.pro
```

```
new QFile(pname.toStdString().c_str());
ile->open(QIODevice::ReadOnly | QIODevice::Text))
turn;
```

```
当读取时,行结尾终止符会转换为'\n';当写入时,
QIODevice::Text 行结尾终止符会被转换为本地编码,例如在win32上
时"\r\n"
```



服务器接收部分代码:

```
void MainWindow::readData()
   QTcpSocket *client = (QTcpSocket *)sender();
   QByteArray data = client->readAll();
   QString str(data);
   ui->textEdit->append(str);
   QStringList ls = str.split(":");
   filesize = ls[1]:
   filename = ls[2]:
   qDebug()<<filesize<<"-"<<filename;</pre>
   temp = "/opt/qt/n "+filename;
   filefd = open(temp.toStdString().c str(),0 CREAT | 0 RDWR,0777);
   if(filefd>0)
       qDebug()<<"file create success";</pre>
   "5413" - "20200731101023.jpg"
   file create success
   len: 26
   len1: 18
   len2: 4
  write length 5413 get length: 5413
  over
```

```
int glength=0;
  QString chang = filename+filesize;
int len =chang.length()+4;
int len1 = filename.length();
int len2 = filesize.length();
qDebug()<<"len:"<<len;
qDebug()<<"len1:"<<len1;
qDebug()<<"len2:"<<len2;
data.remove(0,len);
glength += data.length();
write(filefd,data,data.length());
qDebug() << "write length" << data.length() << "all:" << glength;
::close(filefd);
qDebug()<<"over";</pre>
```

f:4000:20200730144747.jpg:ÿØÿà

server

THANK YOU

感谢聆听,批评指导