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OS Report

1) From lines 130 to 132 Under the “Transfer” menu, I add the following menu items which are

a. Process Queue
b. Default File exist action...
c. Transfer Type

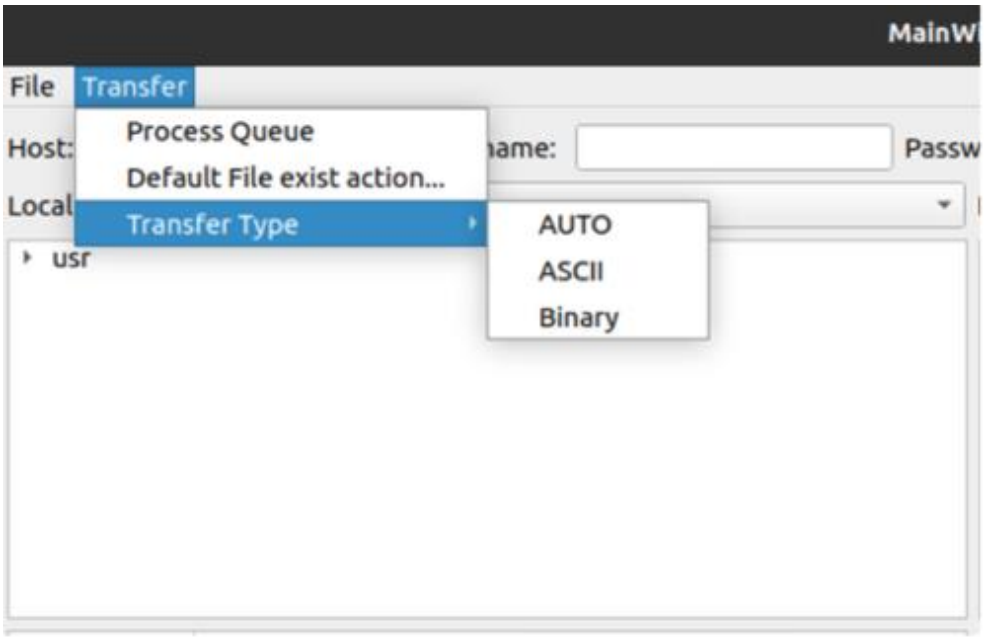
under the “Transfer Type” menu, from lines 133 to 135 I add the following submenu items which are

i. AUTO (provided in the code)
ii. ii. ASCII
iii. iii. Binary

Here is the screenshot:

```
127     ui->menubar->addMenu(menu);
128
129     auto transfer_menu = new QMenu("Transfer");
130     transfer_menu->addAction("Process Queue");
131     transfer_menu->addAction("Default File exist action...");
132     auto tr_submenu = transfer_menu->addMenu("Trnasfer Type");
133     tr_submenu->addAction("AUTO");
134     tr_submenu->addAction("ASCII");
135     tr_submenu->addAction("Binary");
136     ui->menubar->addMenu(transfer_menu);
137 }
```

Here is the figure:



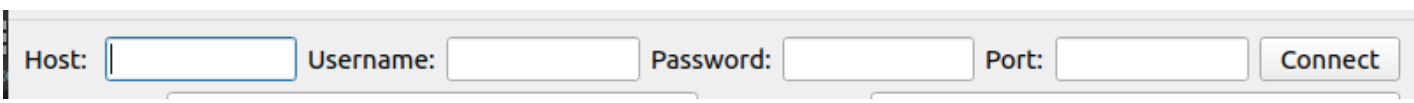
2) I added the input fields for the connection parameters and the "Connect" button in the input_field() function.
   a) From lines 145 to 151, I implement the label (QLabel) "Host:"(provided in the code), "Username:", "Password:" and "Port:", and each label follows a line edit(QLineEdit) component.
   b) In line 153, I added the “Connect” button (QButton) to the right of the last label.

      Here is the screenshot of the code:

```
QHBoxLayout* MainWindow::input_field()
{
    //input field

    auto input_horizon = new QHBoxLayout();
    std::vector<QWidget*> userinput_field;
    userinput_field.push_back(new QLabel("Host: "));
    userinput_field.push_back(new QLineEdit());
    userinput_field.push_back(new QLabel("Username:"));
    userinput_field.push_back(new QLineEdit());
    userinput_field.push_back(new QLabel("Password:"));
    userinput_field.push_back(new QLineEdit());
    userinput_field.push_back(new QLabel("Port:"));
    userinput_field.push_back(new QLineEdit());
    userinput_field.push_back(new QPushButton("Connect"));
    for(auto uf : userinput_field)
        input_horizon-> addWidget(uf);
    return input_horizon;
}
```

Here is the figure:



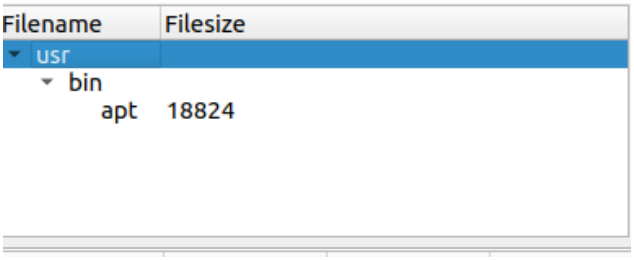
3) Local file view (in local_view() function)

From lines 163 to 167 I added an item to represent file “apt” under bin/ with file size 18824

Here is the screenshot of the code:

```
163 void MainWindow::local_view()
164 {
165     local_site->header()->hide();
166
167     auto first_layer = new QTreeWidgetItem(*new QStringList() << "usr",_DIR);
168     local_site->addTopLevelItem(first_layer);
169     auto second_layer = new QTreeWidgetItem(*new QStringList() << "bin",_DIR);
170     first_layer->addChild(second_layer);
171     second_layer->addChild(new QTreeWidgetItem(*new QStringList() << "apt"<<"18824",_FILE));
172
```

Here is the figure:



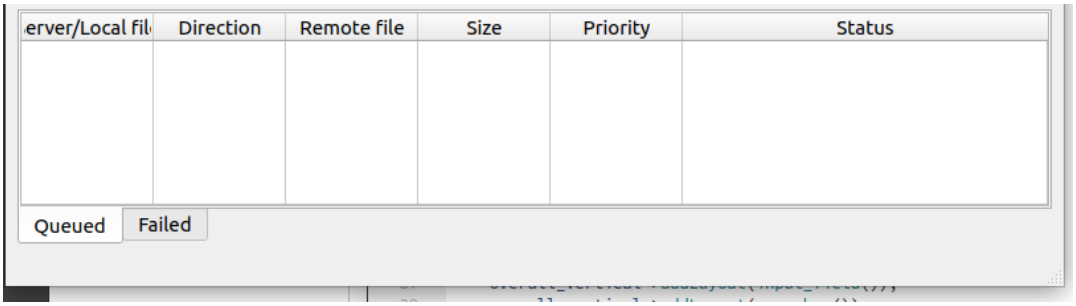
4) Status_view(in status() function)

In line 234, I set the header of QTableWidget in tab “Queued” to "Server/Local file", "Direction", "Remote file", "Size", "Priority" and "Status". In line 238 add a null tab page with the tab name “Failed”

Here is the screenshot:

```
231
232
233
234     queue->setHorizontalHeaderLabels(*new QStringList()<< "Server/Local file" << "Direction" << "Remote file" <<"Size"<< "Priority" << "Status");
235     queue->verticalHeader()->hide();
236     transfer_status->setTabPosition(QTabWidget::South);
237     transfer_status ->addTab(queue,"Queued");
238     transfer_status ->addTab(new QWidget(),"Failed");
239
240     queue->horizontalHeader()->setStretchLastSection(true);
241     queue->verticalHeader()->setStretchLastSection(true);
242
243     return transfer_status;
244
245 }
246 MainWindow::~MainWindow()
247 {
248     delete ui;
249 }
250
251
```

Here is the figure:



5)
Signal and Slot(in mainmenu function)
From lines 124 to 125 I added the menu item “Exit” to the “File” menu; after I finished the implementation of the signal and slot so that the window will get closed when
“Exit” is clicked.

Here is the screenshot:

```
119     auto menu = new QMenu("File");
120     auto submenu = menu->addMenu("New");
121     submenu -> addAction("New tab");
122     menu->addMenu(submenu);
123
124    auto act= menu -> addAction("Exit");
125    connect(act, SIGNAL(triggered()), this, SLOT(close()));
126
```

Here is the figure:

the window will get closed when
“Exit” is clicked.