**4. ПРИЛОЖЕНИЯ**

**Приложение А.**

**Листинг программы**

from PyQt5 import QtCore, QtGui, QtWidgets

from os import system

from PyQt5.QtGui import QDoubleValidator

from PyQt5.QtWidgets import QTableWidgetItem

from data\_base import \*

from main\_ui import \*

# Сгенерированный графический интерфейс

class Ui\_MainWindow(object):

def setupUi(self, MainWindow):

MainWindow.setObjectName("MainWindow")

MainWindow.resize(1160, 465)

self.centralwidget = QtWidgets.QWidget(MainWindow)

self.centralwidget.setObjectName("centralwidget")

self.tableWidget = QtWidgets.QTableWidget(self.centralwidget)

self.tableWidget.setGeometry(QtCore.QRect(0, 0, 801, 411))

self.tableWidget.setObjectName("tableWidget")

self.tableWidget.setColumnCount(6)

self.tableWidget.setRowCount(1)

item = QtWidgets.QTableWidgetItem()

self.tableWidget.setVerticalHeaderItem(0, item)

item = QtWidgets.QTableWidgetItem()

self.tableWidget.setHorizontalHeaderItem(0, item)

item = QtWidgets.QTableWidgetItem()

self.tableWidget.setHorizontalHeaderItem(1, item)

item = QtWidgets.QTableWidgetItem()

self.tableWidget.setHorizontalHeaderItem(2, item)

item = QtWidgets.QTableWidgetItem()

self.tableWidget.setHorizontalHeaderItem(3, item)

item = QtWidgets.QTableWidgetItem()

self.tableWidget.setHorizontalHeaderItem(4, item)

item = QtWidgets.QTableWidgetItem()

self.tableWidget.setHorizontalHeaderItem(5, item)

self.lineEdit = QtWidgets.QLineEdit(self.centralwidget)

self.lineEdit.setGeometry(QtCore.QRect(1070, 10, 81, 22))

self.lineEdit.setInputMask("")

self.lineEdit.setObjectName("lineEdit")

self.label = QtWidgets.QLabel(self.centralwidget)

self.label.setGeometry(QtCore.QRect(810, 0, 261, 41))

font = QtGui.QFont()

font.setPointSize(10)

font.setBold(True)

font.setWeight(75)

self.label.setFont(font)

self.label.setObjectName("label")

self.pushButton = QtWidgets.QPushButton(self.centralwidget)

self.pushButton.setGeometry(QtCore.QRect(810, 40, 93, 28))

self.pushButton.setObjectName("pushButton")

self.label\_2 = QtWidgets.QLabel(self.centralwidget)

self.label\_2.setGeometry(QtCore.QRect(810, 70, 231, 41))

font = QtGui.QFont()

font.setPointSize(10)

font.setBold(True)

font.setWeight(75)

self.label\_2.setFont(font)

self.label\_2.setObjectName("label\_2")

self.lineEdit\_2 = QtWidgets.QLineEdit(self.centralwidget)

self.lineEdit\_2.setGeometry(QtCore.QRect(1040, 80, 111, 22))

self.lineEdit\_2.setInputMask("")

self.lineEdit\_2.setObjectName("lineEdit\_2")

self.label\_3 = QtWidgets.QLabel(self.centralwidget)

self.label\_3.setGeometry(QtCore.QRect(810, 100, 261, 41))

font = QtGui.QFont()

font.setPointSize(10)

font.setBold(True)

font.setWeight(75)

self.label\_3.setFont(font)

self.label\_3.setObjectName("label\_3")

self.lineEdit\_3 = QtWidgets.QLineEdit(self.centralwidget)

self.lineEdit\_3.setGeometry(QtCore.QRect(1040, 110, 111, 22))

self.lineEdit\_3.setInputMask("")

self.lineEdit\_3.setObjectName("lineEdit\_3")

self.pushButton\_2 = QtWidgets.QPushButton(self.centralwidget)

self.pushButton\_2.setGeometry(QtCore.QRect(810, 140, 93, 28))

self.pushButton\_2.setObjectName("pushButton\_2")

MainWindow.setCentralWidget(self.centralwidget)

self.menubar = QtWidgets.QMenuBar(MainWindow)

self.menubar.setGeometry(QtCore.QRect(0, 0, 1160, 26))

self.menubar.setObjectName("menubar")

self.menu = QtWidgets.QMenu(self.menubar)

self.menu.setObjectName("menu")

MainWindow.setMenuBar(self.menubar)

self.statusbar = QtWidgets.QStatusBar(MainWindow)

self.statusbar.setObjectName("statusbar")

MainWindow.setStatusBar(self.statusbar)

self.action = QtWidgets.QAction(MainWindow)

self.action.setObjectName("action")

self.action\_2 = QtWidgets.QAction(MainWindow)

self.action\_2.setObjectName("action\_2")

self.action\_3 = QtWidgets.QAction(MainWindow)

self.action\_3.setObjectName("action\_3")

self.action\_4 = QtWidgets.QAction(MainWindow)

self.action\_4.setObjectName("action\_4")

self.menu.addAction(self.action\_4)

self.menu.addAction(self.action\_2)

self.menu.addAction(self.action\_3)

self.menubar.addAction(self.menu.menuAction())

self.retranslateUi(MainWindow)

QtCore.QMetaObject.connectSlotsByName(MainWindow)

def retranslateUi(self, MainWindow):

\_translate = QtCore.QCoreApplication.translate

MainWindow.setWindowTitle(\_translate("MainWindow", "Baggage"))

item = self.tableWidget.verticalHeaderItem(0)

item.setText(\_translate("MainWindow", "1"))

item = self.tableWidget.horizontalHeaderItem(0)

item.setText(\_translate("MainWindow", "Фамилия"))

item = self.tableWidget.horizontalHeaderItem(1)

item.setText(\_translate("MainWindow", "Имя"))

item = self.tableWidget.horizontalHeaderItem(2)

item.setText(\_translate("MainWindow", "Отчество"))

item = self.tableWidget.horizontalHeaderItem(3)

item.setText(\_translate("MainWindow", "Кол-во"))

item = self.tableWidget.horizontalHeaderItem(4)

item.setText(\_translate("MainWindow", "Вес багажа"))

item = self.tableWidget.horizontalHeaderItem(5)

item.setText(\_translate("MainWindow", "Цена багажа"))

self.lineEdit.setText(\_translate("MainWindow", "100"))

self.label.setText(\_translate("MainWindow", "Введите цену за 1кг багажа:"))

self.pushButton.setText(\_translate("MainWindow", "Рассчитать"))

self.label\_2.setText(\_translate("MainWindow", "Общий вес всего багажа:"))

self.lineEdit\_2.setText(\_translate("MainWindow", "0"))

self.label\_3.setText(\_translate("MainWindow", "Стоимость всего багажа:"))

self.lineEdit\_3.setText(\_translate("MainWindow", "0"))

self.pushButton\_2.setText(\_translate("MainWindow", "Диаграмма"))

self.menu.setTitle(\_translate("MainWindow", "Файл"))

self.action.setText(\_translate("MainWindow", "Инструкция"))

self.action\_2.setText(\_translate("MainWindow", "О программе"))

self.action\_3.setText(\_translate("MainWindow", "Выход"))

self.action\_4.setText(\_translate("MainWindow", "Открыть файл"))

class MyWin(QtWidgets.QMainWindow):

def \_\_init\_\_(self, parent=None):

QtWidgets.QWidget.\_\_init\_\_(self, parent)

self.ui = Ui\_MainWindow()

self.ui.setupUi(self)

# Установить валидатор

pDoubleLineEdit = self.ui.lineEdit

pDoubleValidator = QDoubleValidator(self)

pDoubleLineEdit.setValidator(pDoubleValidator)

p2DoubleLineEdit = self.ui.lineEdit\_2

p2DoubleValidator = QDoubleValidator(self)

p2DoubleLineEdit.setValidator(p2DoubleValidator)

p3DoubleLineEdit = self.ui.lineEdit\_3

p3DoubleValidator = QDoubleValidator(self)

p3DoubleLineEdit.setValidator(p3DoubleValidator)

# Обработка кнопок

self.ui.pushButton.clicked.connect(self.create\_table)

self.ui.pushButton\_2.clicked.connect(self.creat\_diagrama)

self.ui.action\_3.triggered.connect(self.close)

self.ui.action\_2.triggered.connect(self.about)

self.ui.action\_4.triggered.connect(self.open\_file)

def creat\_diagrama(self):

system('diagrama.py')

def about(self):

system('about.py')

def open\_file(self):

system('data\_base.txt')

def create\_table(self):

global data\_base

file = "data\_base.txt"

data\_base = create\_date\_base(file)

summ = float(self.ui.lineEdit.text())

t\_w = 0 # Переменная для посчета общего веса багажа

for i in data\_base:

i.append(int(i[4]) \* summ)

t\_w += int(i[4]) # Сумируем вес багажа всех пассажиров

t\_c = t\_w \* summ # Находим стоимость всего багажа

self.ui.lineEdit\_2.setText(str(t\_w))

self.ui.lineEdit\_3.setText(str(t\_c))

data\_base.sort(key=lambda x: int(x[5]))

print(data\_base)

self.ui.tableWidget.setRowCount(len(data\_base))

h = 0

for i in data\_base:

self.ui.tableWidget.setItem(h, 0, QTableWidgetItem(i[0]))

self.ui.tableWidget.setItem(h, 1, QTableWidgetItem(i[1]))

self.ui.tableWidget.setItem(h, 2, QTableWidgetItem(i[2]))

self.ui.tableWidget.setItem(h, 3, QTableWidgetItem(i[3]))

self.ui.tableWidget.setItem(h, 4, QTableWidgetItem(i[4]))

self.ui.tableWidget.setItem(h, 5, QTableWidgetItem(str(i[5])))

h += 1

if \_\_name\_\_ == "\_\_main\_\_":

import sys

app = QtWidgets.QApplication(sys.argv)

MainWindow = QtWidgets.QMainWindow()

ui = Ui\_MainWindow()

ui.setupUi(MainWindow)

MainWindow.show()

sys.exit(app.exec\_())

**Приложение Б.**

**Дневник ошибок**

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**Приложение В.**

**Диаграмма Ганта**

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| Анализ и спецификация |  |  |  |  |  |  |  |  |  |  |  |
| Проектирование |  |  |  |  |  |  |  |  |  |  |  |
| Кодирование |  |  |  |  |  |  |  |  |  |  |  |
| Тестирование и отладка |  |  |  |  |  |  |  |  |  |  |  |
| Документация |  |  |  |  |  |  |  |  |  |  |  |
| Часы | 5 | 5 | 4 | 4 | 2 | 5 | 5 | 5 | 5 | 4 | 2 |