

LAPORAN TUGAS AHIR

Mata Kuliah Pemrograman Berorientasi Objek

Judul Proyek

MANAGEMENT HOTEL MADRIDISTAS



Disusun Oleh:

- | | |
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**PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNIK DAN ILMU KOMPUTER
UNIVERSITAS NUSANTARA PGRI KEDIRI
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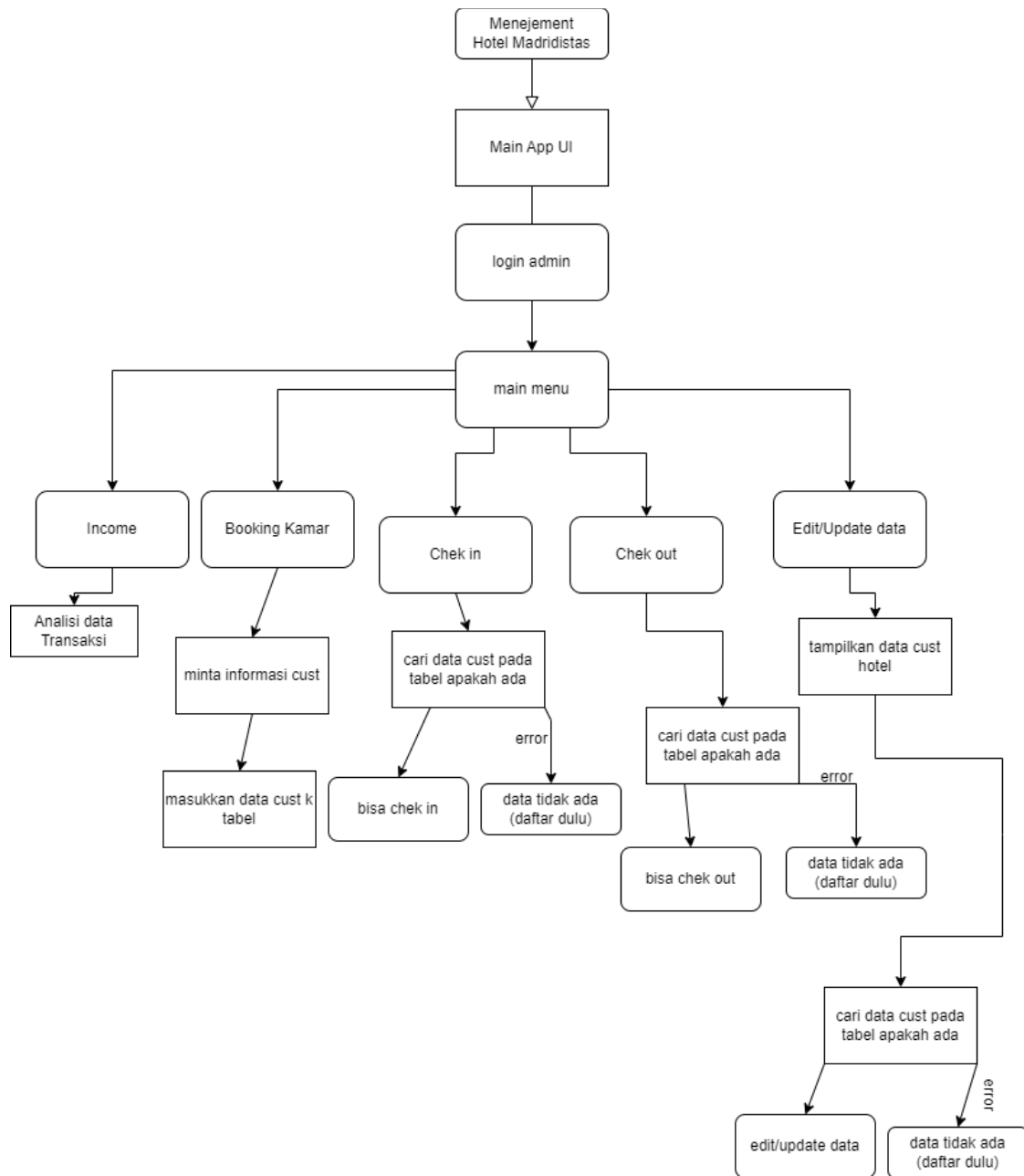
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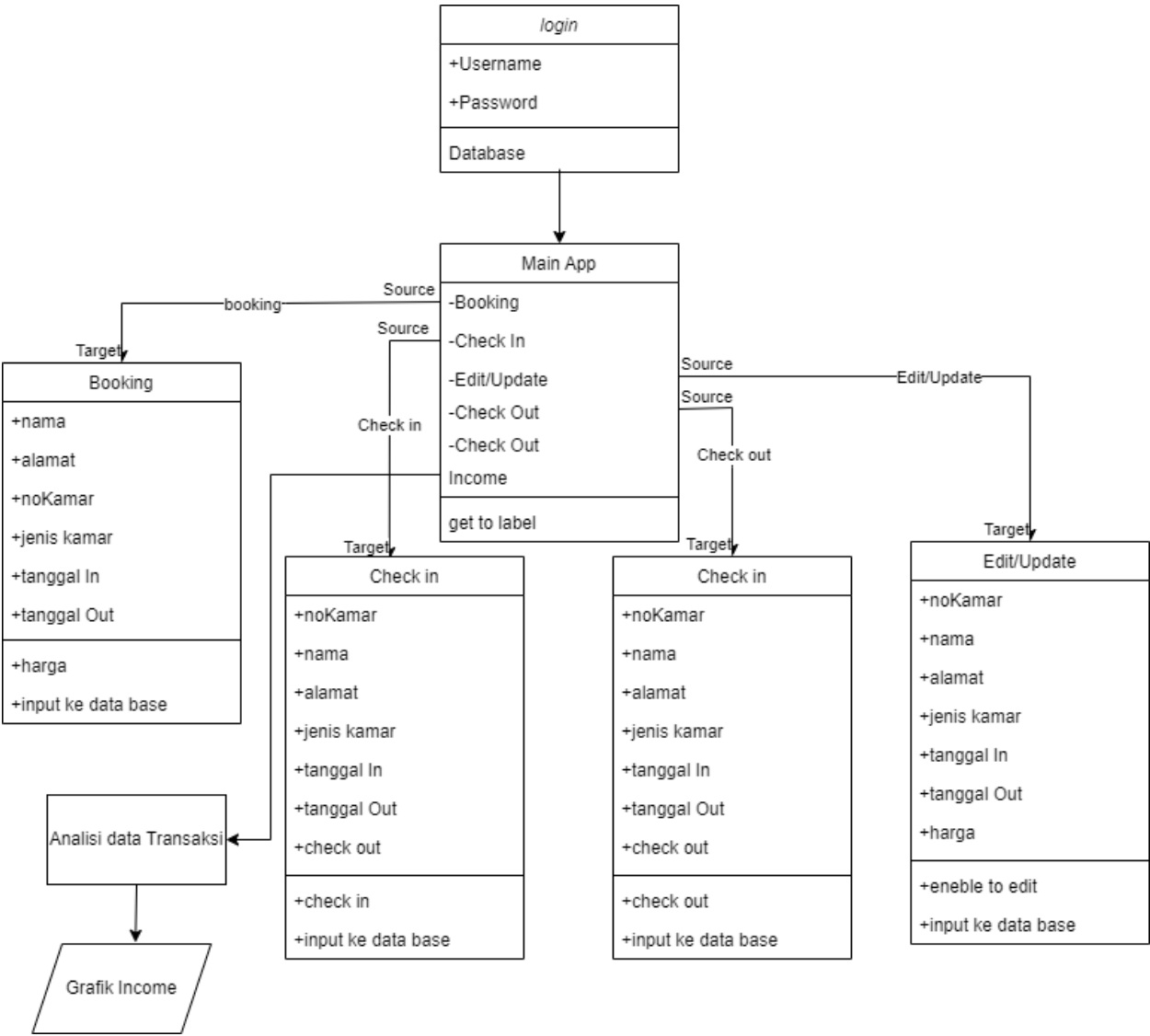
FLOWCHAT SISTEM MENEJEMENT

HOTEL MADRIDISTAS



CLASS DIAGRAM MENEAGEMENT

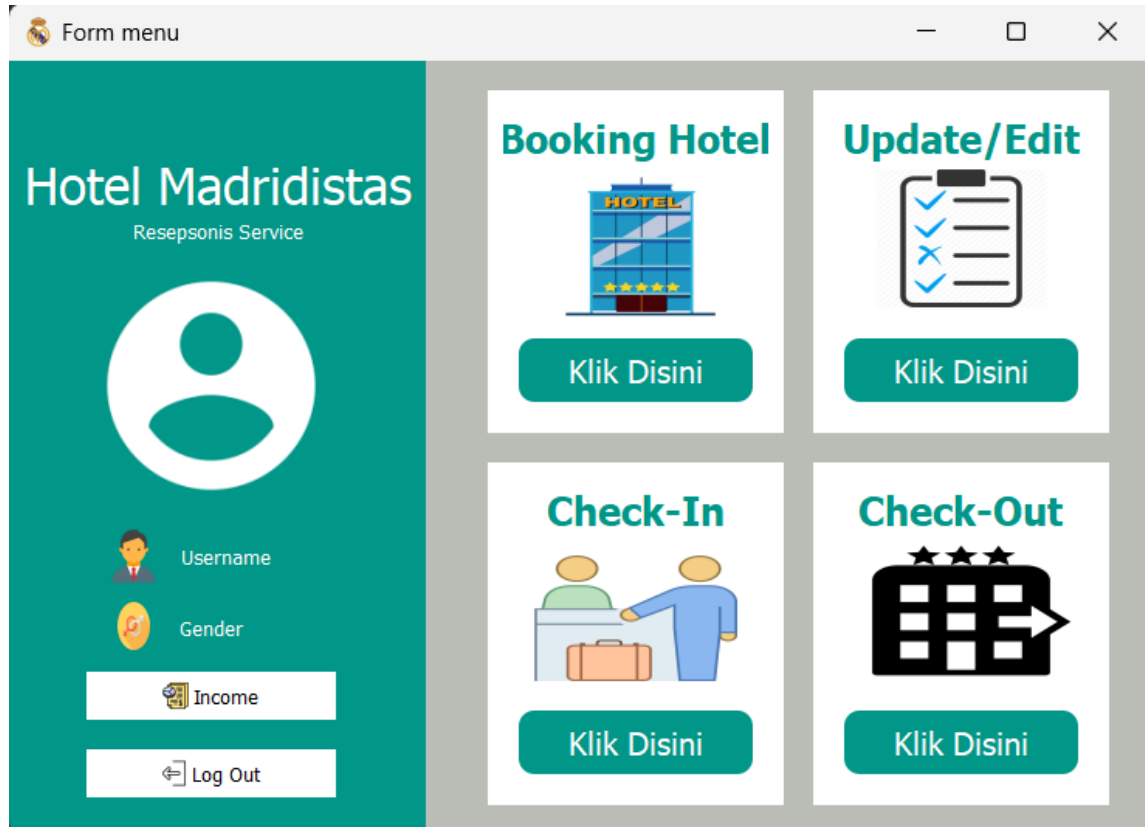
HOTEL MADRIDISTAS



HASIL PROGRAM DAN PENJELASAN

1. Main Menu

a) Tampilan



b) Deskripsi Main menu

Tampilan dari menu ini adalah antarmuka pengguna (UI) untuk suatu aplikasi atau sistem yang terdiri dari dua bagian utama. Bagian pertama terletak di sebelah kiri dan diberi nama "FrameAkun," sementara bagian kedua terletak di sebelah kanan dan disebut "FrameMenu."

Semua elemen pada antarmuka ini dirancang dengan warna latar belakang putih dan warna teks hitam atau sesuai spesifikasi tertentu. Selain itu, terdapat ikon dan gambar yang memberikan tampilan visual pada setiap bagian menu.

c) Detail Main Menu

- Komponen Visual, text dan Variabel

Komponen Visual	Text	Variabel
Logo Hotel	-	-
Title Hotel	Hotel Madridistas	-
Logo User	-	-
Username	Username	-
BtnIncome	Income	PopLapIncome
BtnBoking	Booking	MenuBooking()
Logo Booking	-	-
BtnCheckin	Check In	MenuCheckIn()
Logo Check in	-	-
BtnLogOut	Logout	PopUpLogOut()
BtnUpdate	Edit/update	MenuEdit()
Logo Update	-	-
BtnCheck Out	Check Out	PopCheckout
Logo Check Out	-	-

- Source Code

1. Tombol Income

Buat Tampilan

```
self.BtnIncome = QtWidgets.QPushButton(self.FrameAkun)
    self.BtnIncome.setGeometry(QtCore.QRect(50, 395, 161, 31))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    self.BtnIncome.setFont(font)
    self.BtnIncome.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
```

```

        self.BtnIncome.setStyleSheet("QPushButton{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(204, 0, 0);\n"
"color:white;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color: rgb(255, 255, 255);\n"
"}")

        icon = QtGui.QIcon()
        icon.addPixmap(QtGui.QPixmap("C:\\Users\\shafira\\Documents\\New folder\\project
pbo\\fix\\img\\income.png"), QtGui.QIcon.Normal, QtGui.QIcon.Off)

        self.BtnIncome.setIcon(icon)

        self.BtnIncome.setIconSize(QtCore.QSize(19, 19))

        self.BtnIncome.setObjectName("BtnLapIncome")

        self.BtnIncome.clicked.connect(self.PopLapIncome)

```

Fungsi Tombol

```

def PopLapIncome(self):
    self.windowLapIncome = QtWidgets.QWidget()
    self.LaporanIncome = LaporanIncome()
    self.LaporanIncome.plot_monthly_income()
    self.windowLapIncome.show()

```


2. Tombol LogOut

Buat Tampilan

```
self.BtnLogOut = QtWidgets.QPushButton(self.FrameAkun)

self.BtnLogOut.setGeometry(QtCore.QRect(50, 445, 161, 31))

font = QtGui.QFont()
font.setFamily("Sans Serif")
self.BtnLogOut.setFont(font)

self.BtnLogOut.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))

self.BtnLogOut.setStyleSheet("QPushButton{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(204, 0, 0);\n"
"color:white;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color: rgb(255, 255, 255);\n"
"}")

icon = QtGui.QIcon()
icon.addPixmap(QtGui.QPixmap("C:\\Users\\shafira\\Documents\\New folder\\project
pbo\\fix\\img/logout.png"), QtGui.QIcon.Normal, QtGui.QIcon.Off)

self.BtnLogOut.setIcon(icon)

self.BtnLogOut.setIconSize(QtCore.QSize(19, 19))

self.BtnLogOut.setObjectName("BtnLogOut")

self.BtnLogOut.clicked.connect(self.PopUpLogOut)
```

Fungsi Tombol

```
def PopUpLogOut(self):
    msg = QtWidgets.QMessageBox()
    msg.setWindowTitle("Log Out Hotel Madridistas")
    msg.setText("Are you sure log out?")
    msg.setIcon(QtWidgets.QMessageBox.Question)
    msg.setStandardButtons(QtWidgets.QMessageBox.Cancel
QtWidgets.QMessageBox.Yes)
    msg.setDefaultButton(QtWidgets.QMessageBox.Cancel)
    msg.buttonClicked.connect(self.LogOut)

    x = msg.exec_()

def LogOut(self, i):
    if i.text() == "&Yes":
        QtWidgets.QApplication.quit()
```

3. Menu Booking

Buat Tampilan

```
self.BtnBooking = QtWidgets.QPushButton(self.FrameBooking)
self.BtnBooking.setGeometry(QtCore.QRect(20, 160, 151, 41))
font = QtGui.QFont()
font.setFamily("Sans Serif")
font.setPointSize(12)
self.BtnBooking.setFont(font)
self.BtnBooking.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
self.BtnBooking.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
```

```

"color:white;\n"
"border-style:outset;\n"
"border-radius:10px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:10px;\n"
"border-color: rgb(0, 150, 136);\n"
"}")

self.BtnBooking.setObjectName("BtnBooking")
self.BtnBooking.clicked.connect(self.MenuBooking)
self.TitleBooking = QtWidgets.QLabel(self.FrameBooking)
self.TitleBooking.setGeometry(QtCore.QRect(10, 10, 171, 41))
font = QtGui.QFont()
font.setFamily("Sans Serif")
font.setPointSize(15)
font.setBold(True)
font.setWeight(75)
self.TitleBooking.setFont(font)
self.TitleBooking.setStyleSheet("color: rgb(0, 150, 136);")
self.TitleBooking.setAlignment(QtCore.Qt.AlignCenter)
self.TitleBooking.setObjectName("TitleBooking")

self.LogoBooking = QtWidgets.QLabel(self.FrameBooking)
self.LogoBooking.setGeometry(QtCore.QRect(20, 50, 151, 101))
self.LogoBooking.setText("")

self.LogoBooking.setPixmap(QtGui.QPixmap("C:\\Users\\shafira\\Documents\\N

```

```
ew folder\\project pbo\\fix\\img\\booking.png"))
    self.LogoBooking.setScaledContents(True)
    self.LogoBooking.setObjectName("LogoBooking")
```

Fungsi Tombol

```
def MenuBooking(self):
    self.windowBooking = QtWidgets.QWidget()
    self.uiBooking = Ui_Booking()
    self.uiBooking.setupUi(self.windowBooking)
    self.windowBooking.show()
```

4. Menu Edit

Buat Tampilan

```
self.FrameDaftar = QtWidgets.QFrame(self.FrameMenu)
    self.FrameDaftar.setGeometry(QtCore.QRect(250, 20, 191, 221))
    self.FrameDaftar.setStyleSheet("background-color: rgb(255, 255, 255);")
    self.FrameDaftar.setFrameShape(QtWidgets.QFrame.StyledPanel)
    self.FrameDaftar.setFrameShadow(QtWidgets.QFrame.Raised)
    self.FrameDaftar.setObjectName("FrameDaftar")
    self.BtnDaftar = QtWidgets.QPushButton(self.FrameDaftar)
    self.BtnDaftar.setGeometry(QtCore.QRect(20, 160, 151, 41))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    font.setPointSize(12)
    self.BtnDaftar.setFont(font)
    self.BtnDaftar.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
    self.BtnDaftar.setStyleSheet("QPushButton{\n"
```

```

"background-color: rgb(0, 150, 136);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:10px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:10px;\n"
"border-color: rgb(0, 150, 136);\n"
"}")

    self.BtnDaftar.setObjectName("BtnDaftar")
    self.BtnDaftar.clicked.connect(self.MenuEdit)
    self.LogoDaftar = QtWidgets.QLabel(self.FrameDaftar)
    self.LogoDaftar.setGeometry(QtCore.QRect(40, 50, 111, 91))
    self.LogoDaftar.setText("")

self.LogoDaftar.setPixmap(QtGui.QPixmap("C:\\Users\\shafira\\Documents\\New
folder\\project pbo\\fix\\img\\Daftar.png"))
    self.LogoDaftar.setScaledContents(True)
    self.LogoDaftar.setObjectName("LogoDaftar")
    self.TitleDaftar = QtWidgets.QLabel(self.FrameDaftar)
    self.TitleDaftar.setGeometry(QtCore.QRect(10, 10, 171, 41))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    font.setPointSize(15)
    font.setBold(True)
    font.setWeight(75)
    self.TitleDaftar.setFont(font)

```

```
self.TitleDaftar.setStyleSheet("color: rgb(0, 150, 136);")
self.TitleDaftar.setAlignment(QtCore.Qt.AlignCenter)
self.TitleDaftar.setObjectName("TitleDaftar")
```

Fungsi Tombol

```
def MenuEdit(self):
    self.windowEdit = QtWidgets.QWidget()
    self.uiEdit = Ui_Edit()
    self.uiEdit.setupUi(self.windowEdit)
    self.windowEdit.show()
```

5. Menu Check in

Buat Tampilan

```
self.FrameCheckIn = QtWidgets.QFrame(self.FrameMenu)
self.FrameCheckIn.setGeometry(QtCore.QRect(40, 260, 191, 221))
self.FrameCheckIn.setStyleSheet("background-color: rgb(255, 255, 255);")
self.FrameCheckIn setFrameShape(QtWidgets.QFrame.StyledPanel)
self.FrameCheckIn setFrameShadow(QtWidgets.QFrame.Raised)
self.FrameCheckIn.setObjectName("FrameCheckIn")
self.BtnCheckIn = QtWidgets.QPushButton(self.FrameCheckIn)
self.BtnCheckIn.setGeometry(QtCore.QRect(20, 160, 151, 41))
font = QtGui.QFont()
font.setFamily("Sans Serif")
font.setPointSize(12)
self.BtnCheckIn.setFont(font)
self.BtnCheckIn.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
self.BtnCheckIn.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
```

```

"color:white;\n"
"border-style:outset;\n"
"border-radius:10px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:10px;\n"
"border-color: rgb(0, 150, 136);\n"
"}")

    self.BtnCheckIn.setObjectName("BtnCheckIn")
    self.BtnCheckIn.clicked.connect(self.MenuCheckIn)
    self.LogoCheckIn = QtWidgets.QLabel(self.FrameCheckIn)
    self.LogoCheckIn.setGeometry(QtCore.QRect(30, 60, 131, 81))
    self.LogoCheckIn.setText("")

self.LogoCheckIn.setPixmap(QtGui.QPixmap("C:\\Users\\shafira\\Documents\\New folder\\project pbo\\fix\\img\\checkin.png"))
    self.LogoCheckIn.setScaledContents(True)
    self.LogoCheckIn.setObjectName("LogoCheckIn")
    self.TitleCheckIn = QtWidgets.QLabel(self.FrameCheckIn)
    self.TitleCheckIn.setGeometry(QtCore.QRect(10, 10, 171, 41))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    font.setPointSize(15)
    font.setBold(True)
    font.setWeight(75)
    self.TitleCheckIn.setFont(font)
    self.TitleCheckIn.setStyleSheet("color: rgb(0, 150, 136);")

```

```
self.TitleCheckIn.setAlignment(QtCore.Qt.AlignCenter)
self.TitleCheckIn.setObjectName("TitleCheckIn")
```

Fungsi Tombol

```
def MenuCheckIn(self):
    self.windowCheckIn = QtWidgets.QWidget()
    self.uiCheckIn = Ui_ChekIn()
    self.uiCheckIn.setupUi(self.windowCheckIn)
    self.windowCheckIn.show()
```

6. Menu Check Out

Buat Tampilan

```
self.FrameCheckOut = QtWidgets.QFrame(self.FrameMenu)
self.FrameCheckOut.setGeometry(QtCore.QRect(250, 260, 191, 221))
self.FrameCheckOut.setStyleSheet("background-color: rgb(255, 255, 255);")
self.FrameCheckOut.setFrameShape(QtWidgets.QFrame.StyledPanel)
self.FrameCheckOut.setFrameShadow(QtWidgets.QFrame.Raised)
self.FrameCheckOut.setObjectName("FrameCheckOut")
self.BtnCheckOut = QtWidgets.QPushButton(self.FrameCheckOut)
self.BtnCheckOut.setGeometry(QtCore.QRect(20, 160, 151, 41))
font = QtGui.QFont()
font.setFamily("Sans Serif")
font.setPointSize(12)
self.BtnCheckOut.setFont(font)

self.BtnCheckOut.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
self.BtnCheckOut.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
```



```

"color:white;\n"
"border-style:outset;\n"
"border-radius:10px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:10px;\n"
"border-color: rgb(0, 150, 136);\n"
"}")

self.BtnCheckOut.setObjectName("BtnCheckOut")
self.BtnCheckOut.clicked.connect(self.MenuCheckOut)
self.TitleCheckOut = QtWidgets.QLabel(self.FrameCheckOut)
self.TitleCheckOut.setGeometry(QtCore.QRect(10, 10, 171, 41))
font = QtGui.QFont()
font.setFamily("Sans Serif")
font.setPointSize(15)
font.setBold(True)
font.setWeight(75)
self.TitleCheckOut.setFont(font)
self.TitleCheckOut.setStyleSheet("color: rgb(0, 150, 136);")
self.TitleCheckOut.setAlignment(QtCore.Qt.AlignCenter)
self.TitleCheckOut.setObjectName("TitleCheckOut")
self.LogoCheckOut = QtWidgets.QLabel(self.FrameCheckOut)
self.LogoCheckOut.setGeometry(QtCore.QRect(20, 50, 151, 91))
self.LogoCheckOut.setText("")

self.LogoCheckOut.setPixmap(QtGui.QPixmap("C:\\Users\\shafira\\Documents\\
New folder\\project pbo\\fix\\img\\checkout.png"))

```

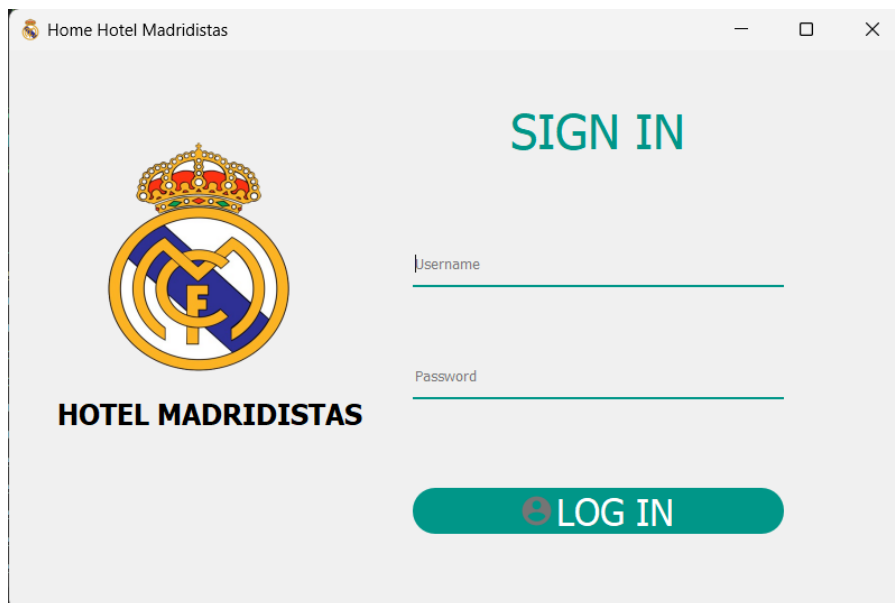
```
self.LogoCheckOut.setScaledContents(True)
self.LogoCheckOut.setObjectName("LogoCheckOut")
```

Fungsi Tombol

```
def MenuCheckOut(self):
    self.windowCheckOut = QtWidgets.QWidget()
    self.uiChekcOut = Ui_CheckOut()
    self.uiChekcOut.setupUi(self.windowCheckOut)
    self.windowCheckOut.show()
```

2. Form Login

a) Tampilan



b) Deskripsi Form Login

Form ini berfungsi untuk masuk user yang sudah ada pada database aplikasi dan juga masuk aplikasi. Dengan menggunakan tombol login untuk masuk ke aplikasi yakni href ke tampilan main menu

c) Detai Aplikasi

- Tabel komponen Visual, Text dan Variabel

Komponen Visual	Text	Variabel
Self.username	Username	Username
Self.password	Password	Password
Self.buttonLogIn	Login	-

- Source Code

- Tombol Login

Buat tampilan tombol

```
self.ButtonLogIn = QtWidgets.QPushButton(LogInMenu)
    self.ButtonLogIn.setGeometry(QtCore.QRect(360, 390, 331, 41))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    font.setPointSize(20)
    self.ButtonLogIn.setFont(font)
self.ButtonLogIn.setCursor(QtGui.QCursor(QtCore.Qt.PointingHand
Cursor))
    self.ButtonLogIn.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(0,150,136);\n"
"}")
    icon1 = QtGui.QIcon()
    icon1.addPixmap(QtGui.QPixmap("C:\\Users\\shafira\\Documents\\N
ew folder\\project pbo\\fix\\img\\akun.png"), QtGui.QIcon.Normal,
QtGui.QIcon.Off)
    self.ButtonLogIn.setIcon(icon1)
    self.ButtonLogIn.setIconSize(QtCore.QSize(31, 31))
```

```
self.ButtonLogIn.setObjectName("ButtonLogIn")
self.ButtonLogIn.clicked.connect(self.LogInClicked)
```

Fungsi tombol

```
def LogInClicked(self):
    _translate = QtCore.QCoreApplication.translate

    cursor = self.db.cursor()
    infoAdmin = ("SELECT `username`, `password` FROM Admin")
    cursor.execute(infoAdmin)

    infoUser = False
    infoPass = False

    for (username, password) in cursor:
        if self.username.text() == username:
            infoUser = True
        if self.password.text() == password:
            infoPass = True

    if infoPass == True and infoUser == True:
        self.openMainWindow()
    elif infoUser == False:
        self.EHUsername.setText(_translate("LogInMenu", "<font
color='red'>Username anda salah</font>"))
        self.EHPassword.setText(_translate("LogInMenu", "<font
color='red'>Password anda salah</font>"))
    else :
        self.EHUsername.setText(_translate("LogInMenu", "<font
color='red'> </font>"))
        self.EHPassword.setText(_translate("LogInMenu", "<font
```

color=\"red\">Password anda salah"))

2. Form Transaksi

A. Booking Kamar

1. Nama Form: Booking

No. Kamar	Nama	Alamat	Jenis Kamar	Tanggal In	Tanggal Out
1 212	Ichans	jdoaidj	VVIP	2023-12-18	2023-12-19
2 202	Nurhadi	Jl. Diponegoro ...	VVIP	2020-07-03	2020-07-04
3 546	Ichsan	Jl. koplo	VVIP	2023-12-19	2023-12-20
4 888	Iodjsaodj	skdjnsau	Ekonomi	2023-12-18	2023-12-19
5 123	Ichsan Ga	Jl. Surapto	Ekonomi	2023-12-18	2023-12-19
6 542	Ichsan Azala	Jl. Suka kamu	VVIP	2023-12-18	2023-12-19
7 135	Jhsdbjhas	dsnsfjdj	VVIP	2023-12-18	2023-12-19
8 314	Sapira A	Jl. Flamboyan	Ekonomi	2023-12-19	2023-12-20

Total Income: Rp. 8,100,000.00

2. Deskripsi

Form ini berfungsi sebagai transaksi pemesanan kamar dan juga pengolahan data berupa penjumlahan harga yang harus dibayarkan oleh pelanggan. Dengan menggunakan tombol submit untuk melakukan input data dan tombol reload untuk mereload atau refresh tampilan dashboard

3. Detail Aplikasi

- Komponen Visual, Text dan Variabel

Komponen Visual	Text	Variabel
Self.labelnama	Kosongkan	Nama
Self.lineAlamat	Kosongkan	Alamat
Self.labelkamar	Kosongkan	No. Kamar
Self.radioEkonomi	Kosongkan	Ekonomi

Self.radioVVIP	Kosongkan	VVIP
Self.dateIn	Date time now	TanggalIn
Self.dateOut	Date time now	TanggalOut
Self.fromharga	Harga	Harga
Self.BtnEdit	Submit	Submit
Self.BtnReload	Reload	Reload
Self.BtnExit	Exit App	Exit

- Source Code

1. Tombol Submit

Buat tampilan tombol

```

self.BtnEdit = QtWidgets.QPushButton(Form)
    self.BtnEdit.setGeometry(QtCore.QRect(20, 480, 161, 41))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    font.setPointSize(17)
    font.setBold(False)
    font.setWeight(50)
    self.BtnEdit.setFont(font)

self.BtnEdit.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
    self.BtnEdit.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"

```



```

"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(0,150,136);\n"
"}")

self.BtnEdit.setObjectName("BtnEdit")
self.BtnEdit.clicked.connect(self.clickedSubmit)

```

Fungsi tombol

```

def clickedSubmit(self):
    db = mysql.connector.connect(user="root", database="Hotel")
    cursor = db.cursor()
    conn = pymysql.connect(user="root", db="Hotel", autocommit=True)
    cur = conn.cursor()

    DateIn = self.DateIn.date().toString("yyyy-MM-dd")
    formatted_date_in = datetime.datetime.strptime(DateIn, "%Y-%m-%d").date()

    DateOut = self.DateOut.date().toString("yyyy-MM-dd")
    formatted_date_out = datetime.datetime.strptime(DateOut, "%Y-%m-%d").date()

    # Extracting dates from the date edit widgets
    date_in = self.DateIn.date().toPyDate()
    date_out = self.DateOut.date().toPyDate()

```

```

# Calculating the number of days
num_days = (date_out - date_in).days


id_tamu = 0
id_transaksi = 0
query1 = ("SELECT `Tamu`.`id_tamu`, `Transaksi`.`id_transaksi`
FROM Transaksi, Tamu WHERE Tamu.id_tamu =
Transaksi.id_tamuFK")
cursor.execute(query1)
for (dataTamu, dataTransaksi) in cursor:
    id_tamu = int(dataTamu)
    id_transaksi = int(dataTransaksi)


harga = 0
if self.infoRadio == "Ekonomi":
    harga = 300000
else :
    harga = 400000


total_cost = harga * num_days


query2 = ("INSERT INTO Tamu(id_tamu, nama_tamu, alamat)
VALUES(%s, %s, %s)")
cur.execute(query2, (id_tamu+1, self.FormNama.text(),
self.LineAlamat.text()))

query3 = ("INSERT INTO Kamar(no_kamar, id_tamuFK,
jenis_kamar) VALUES(%s, %s, %s)")
cur.execute(query3, (self.FormNoKamar.text(), id_tamu+1,
self.infoRadio))

```

```

        query4 = ("INSERT INTO Transaksi(id_transaksi, id_tamuFK,
no_kamarFK, tanggal_in, tanggal_out, jumlah) VALUES(%s, %s, %s, %s,
%s, %s)")

        cur.execute(query4, (id_transaksi+1, id_tamu+1,
self.FormNoKamar.text(), formatted_date_in, formatted_date_out,
total_cost))

        db.commit()
        cursor.close()
        cur.close()
        conn.close()
        db.close()

        self.ReloadData()
        self.show_message("Submit Tamu", f"Data tamu sudah tersubmit.
Total cost: Rp. {total_cost:,.2f}")

```

2. Tombol reload

Tampilan Tombol

```

self.BtnReload = QtWidgets.QPushButton(Form)
self.BtnReload.setGeometry(QtCore.QRect(190, 480, 161, 41))
font = QtGui.QFont()
font.setFamily("Sans Serif")
font.setPointSize(17)
font.setBold(False)
font.setWeight(50)
self.BtnReload.setFont(font)

self.BtnReload.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))

```

```

)

self.BtnReload.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(0,150,136);\n"
"}")

self.BtnReload.setObjectName("BtnReload")
self.BtnReload.clicked.connect(self.clickedReload)

```

Fungsi Tombol

```

def ReloadData(self):
    db = mysql.connector.connect(user="root", database="Hotel")
    cursor = db.cursor()
    query = ("SELECT `Kamar`.`no_kamar`, `Tamu`.`nama_tamu`,
`Tamu`.`alamat`, `Kamar`.`jenis_kamar`, `Transaksi`.`tanggal_in`,
`Transaksi`.`tanggal_out`, `Transaksi`.`jumlah` FROM Transaksi, Kamar,
Tamu WHERE Kamar.no_kamar = Transaksi.no_kamarFK AND
Tamu.id_tamu = Transaksi.id_tamuFK")
    cursor.execute(query)
    self.TableInform.setRowCount(0)
    for row_number, row_data in enumerate(cursor):

```

```

        self.TableInform.insertRow(row_number)
        for column_number, data in enumerate(row_data):
            self.TableInform.setItem(row_number, column_number,
QtWidgets.QTableWidgetItem(str(data)))

        total_income = self.calculate_total_income() # Add this line
        self.LabelTotalIncome.setText(f"Total Income: Rp.
{total_income:,.2f}") # Update this line

        db.commit()
        cursor.close()
        db.close()

```

3. Tombol Exit App

Tampilan Tombol

```

self.BtnExit = QtWidgets.QPushButton(Form)
self.BtnExit.setGeometry(QtCore.QRect(110, 540, 151, 41))
font = QtGui.QFont()
font.setPointSize(17)
self.BtnExit.setFont(font)

self.BtnExit.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
self.BtnExit.setStyleSheet("QPushButton{\n"
"background-color: rgb(204, 0, 0);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"

```

```

"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(204, 0, 0);\n"
"}")
    self.BtnExit.setObjectName("BtnExit")
    self.BtnExit.clicked.connect(self.ClickedExit)

```

Fungsi Tombol

```

def ClickedExit(self):
    msg = QtWidgets.QMessageBox()
    msg.setWindowTitle("Exit Application")
    msg.setText("Are you sure exit?")
    msg.setIcon(QtWidgets.QMessageBox.Question)
    msg.setStandardButtons(QtWidgets.QMessageBox.Cancel |
QtWidgets.QMessageBox.Yes)
    msg.setDefaultButton(QtWidgets.QMessageBox.Cancel)
    msg.buttonClicked.connect(self.LogOut)

    x = msg.exec_()

```

B. Edit / Update

1. Nama Form: Edit

2. Deskripsi

Form ini berfungsi sebagai transaksi pengeditan pemesanan kamar dan juga update dari pengolahan data berupa penjumlahan harga yang harus dibayarkan oleh pelanggan yang telah di edit. Dengan menggunakan tombol submit untuk melakukan input data, tombol reload untuk mereload atau refresh tampilan dashboard dan delete untuk menghapus data

3. Detail Aplikasi

- Komponen Visual, Text dan Variabel

Komponen Visual	Text	Variabel
Self.labelnama	Kosongkan	Nama
Self.lineAlamat	Kosongkan	Alamat
Self.labelkamar	Kosongkan	No. Kamar
Self.radioEkonomi	Kosongkan	Ekonomi
Self.radioVVIP	Kosongkan	VVIP

Self.dateIn	Date time now	TanggalIn
Self.dateOut	Date time now	TanggalOut
Self.fromharga	Harga	Harga
Self.BtnEdit	Submit	Submit
Self.BtnReload	Reload	Reload
Self.BtnExit	Exit App	Exit
Self.lebelSearch	No. Kamar	Search
Self.ComboBoxSortBy	No. Kamar", "Nama", "Tanggal In", "Tanggal Out"	Item
Self.ComboBoxSortOrder	"ASC", "DESC"	Item
Self.BtnSort	Cari	-

- Source Code

1. Tombol Submit

Buat tampilan tombol

```

self.BtnEdit = QtWidgets.QPushButton(Form)
    self.BtnEdit.setGeometry(QtCore.QRect(20, 480, 161, 41))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    font.setPointSize(17)
    font.setBold(False)
    font.setWeight(50)
    self.BtnEdit.setFont(font)

self.BtnEdit.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))

```



```

        self.BtnEdit.setStyleSheet("QPushButton{\n"
        "background-color: rgb(0, 150, 136);\n"
        "color:white;\n"
        "border-style:outset;\n"
        "border-radius:20px;\n"
        "}\n"
        "QPushButton::hover{\n"
        "background-color: rgb(255, 255, 255);\n"
        "color:black;\n"
        "border-style:outset;\n"
        "border-width:2px;\n"
        "border-radius:20px;\n"
        "border-color:rgb(0,150,136);\n"
        "}")
        self.BtnEdit.setObjectName("BtnEdit")
        self.BtnEdit.clicked.connect(self.clickedSubmit)

```

Fungsi tombol

```

def clickedSubmit(self):
    db = mysql.connector.connect(user="root", database="Hotel")
    cursor = db.cursor()
    conn = pymysql.connect(user="root", db="Hotel", autocommit=True)
    cur = conn.cursor()

    DateIn = self.DateIn.date().strftime("yyyy-MM-dd")
    formatted_date_in = datetime.datetime.strptime(DateIn, "%Y-%m-%d").date()

    DateOut = self.DateOut.date().strftime("yyyy-MM-dd")
    formatted_date_out = datetime.datetime.strptime(DateOut, "%Y-%m-%d").date()

```

```
%d").date()
```

```
# Extracting dates from the date edit widgets
```

```
date_in = self.DateIn.date().toPyDate()
```

```
date_out = self.DateOut.date().toPyDate()
```

```
# Calculating the number of days
```

```
num_days = (date_out - date_in).days
```

```
id_tamu = 0
```

```
id_transaksi = 0
```

```
query1 = ("SELECT `Tamu`.`id_tamu`, `Transaksi`.`id_transaksi`  
FROM Transaksi, Tamu WHERE Tamu.id_tamu =  
Transaksi.id_tamuFK")
```

```
cursor.execute(query1)
```

```
for (dataTamu, dataTransaksi) in cursor:
```

```
    id_tamu = int(dataTamu)
```

```
    id_transaksi = int(dataTransaksi)
```

```
harga = 0
```

```
if self.infoRadio == "Ekonomi":
```

```
    harga = 300000
```

```
else :
```

```
    harga = 400000
```

```
total_cost = harga * num_days
```

```
query2 = ("INSERT INTO Tamu(id_tamu, nama_tamu, alamat)  
VALUES(%s, %s, %s)")
```

```

        cur.execute(query2, (id_tamu+1, self.FormNama.text(),
self.LineAlamat.text()))

        query3 = ("INSERT INTO Kamar(no_kamar, id_tamuFK,
jenis_kamar) VALUES(%s, %s, %s)")

        cur.execute(query3, (self.FormNoKamar.text(), id_tamu+1,
self.infoRadio))

        query4 = ("INSERT INTO Transaksi(id_transaksi, id_tamuFK,
no_kamarFK, tanggal_in, tanggal_out, jumlah) VALUES(%s, %s, %s, %s,
%s, %s)")

        cur.execute(query4, (id_transaksi+1, id_tamu+1,
self.FormNoKamar.text(), formatted_date_in, formatted_date_out,
total_cost))

        db.commit()
        cursor.close()
        cur.close()
        conn.close()
        db.close()

        self.ReloadData()

        self.show_message("Submit Tamu", f"Data tamu sudah tersubmit.
Total cost: Rp. {total_cost:,.2f}")

```

2. Tombol reload

Tampilan Tombol

```

self.BtnReload = QtWidgets.QPushButton(Form)
self.BtnReload.setGeometry(QtCore.QRect(190, 480, 161, 41))
font = QtGui.QFont()
font.setFamily("Sans Serif")

```

```

        font.setPointSize(17)
        font.setBold(False)
        font.setWeight(50)
        self.BtnReload.setFont(font)

self.BtnReload.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor)
)

        self.BtnReload.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(0,150,136);\n"
"}")

        self.BtnReload.setObjectName("BtnReload")
        self.BtnReload.clicked.connect(self.clickedReload)

```

Fungsi Tombol

```

def ReloadData(self):
    db = mysql.connector.connect(user="root", database="Hotel")
    cursor = db.cursor()

    query = ("SELECT `Kamar`.`no_kamar`, `Tamu`.`nama_tamu`,
`Tamu`.`alamat`, `Kamar`.`jenis_kamar`, `Transaksi`.`tanggal_in`,

```

```

`Transaksi`.`tanggal_out`, `Transaksi`.`jumlah` FROM Transaksi, Kamar,
Tamu WHERE Kamar.no_kamar = Transaksi.no_kamarFK AND
Tamu.id_tamu = Transaksi.id_tamuFK")

cursor.execute(query)
self.TableInform.setRowCount(0)
for row_number, row_data in enumerate(cursor):
    self.TableInform.insertRow(row_number)
    for column_number, data in enumerate(row_data):
        self.TableInform.setItem(row_number, column_number,
QtWidgets.QTableWidgetItem(str(data)))

total_income = self.calculate_total_income() # Add this line
self.LabelTotalIncome.setText(f"Total Income: Rp.
{total_income:,.2f}") # Update this line

db.commit()
cursor.close()
db.close()

```

3. Tombol Exit App

Tampilan Tombol

```

self.BtnExit = QtWidgets.QPushButton(Form)
self.BtnExit.setGeometry(QtCore.QRect(110, 540, 151, 41))
font = QtGui.QFont()
font.setPointSize(17)
self.BtnExit.setFont(font)

self.BtnExit.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
self.BtnExit.setStyleSheet("QPushButton{\n"

```

```

"background-color: rgb(204, 0, 0);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(204, 0, 0);\n"
"}")

self.BtnExit.setObjectName("BtnExit")
self.BtnExit.clicked.connect(self.ClickedExit)

```

Fungsi Tombol

```

def ClickedExit(self):
    msg = QtWidgets.QMessageBox()
    msg.setWindowTitle("Exit Application")
    msg.setText("Are you sure exit?")
    msg.setIcon(QtWidgets.QMessageBox.Question)
    msg.setStandardButtons(QtWidgets.QMessageBox.Cancel |
QtWidgets.QMessageBox.Yes)
    msg.setDefaultButton(QtWidgets.QMessageBox.Cancel)
    msg.buttonClicked.connect(self.LogOut)

    x = msg.exec_()

```

4. Tombol Delete

Buat Tampilan Tombol

```
self.BtnDelete = QtWidgets.QPushButton(Form)
    self.BtnDelete.setGeometry(QtCore.QRect(190, 480, 151, 41))
    font = QtGui.QFont()
    font.setPointSize(17)
    self.BtnDelete.setFont(font)

self.BtnDelete.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))
    self.BtnDelete.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(204, 0, 0);\n"
"color:white;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(0, 150, 136);\n"
"}")
    self.BtnDelete.setObjectName("BtnDelete")
    self.BtnDelete.clicked.connect(self.ClickedDelete)
```

Fungsi Tombol

```
def ClickedDelete(self):
    msg = QtWidgets.QMessageBox()
```

```

msg.setWindowTitle("Delete Data")
msg.setText("Are you sure delete this data?")
msg.setIcon(QtWidgets.QMessageBox.Question)
msg.setStandardButtons(QtWidgets.QMessageBox.Cancel |
QtWidgets.QMessageBox.Yes)
msg.setDefaultButton(QtWidgets.QMessageBox.Cancel)
msg.buttonClicked.connect(self.DeleteData)

x = msg.exec_()

def DeleteData(self, i):
    if i.text() == "&Yes":
        conn = pymysql.connect(user="root", db="Hotel", autocommit=True)
        cursor = conn.cursor()

        query = ("SELECT id_transaksi, id_tamuFK, no_kamarFK FROM
Transaksi WHERE no_kamarFK = %s")
        cursor.execute(query, self.SelectedItems())

        id_transaksi = 0
        id_tamu = 0
        id_kamar = 0

        for (id_data1, id_data2, id_data3) in cursor:
            id_transaksi = int(id_data1)
            id_tamu = int(id_data2)
            id_kamar = int(id_data3)

        query2 = ("DELETE FROM Transaksi WHERE id_transaksi = %s")
        cursor.execute(query2, id_transaksi)
        query3 = ("DELETE FROM Tamu WHERE id_tamu = %s")

```



```
cursor.execute(query3, id_tamu)
query4 = ("DELETE FROM Kamar WHERE no_kamar = %s")
cursor.execute(query4, id_kamar)

cursor.close()
conn.close()

self.ReloadData()
```

5. Tombol Cari

Buat Tampilan Tombol

```
self.BtnSort = QtWidgets.QPushButton(Form)
self.BtnSort.setGeometry(QtCore.QRect(650, 50, 101, 31))
self.BtnSort.setObjectName("BtnSort")
self.BtnSort.setText("Cari")
self.BtnSort.clicked.connect(self.SortData)
```

Fungsi Tombol

```
def SortData(self):
    sort_column = self.ComboBoxSortBy.currentText()
    sort_order = self.ComboBoxSortOrder.currentText()

    # Perform sorting based on selected criteria
    self.BubbleSort(sort_column, sort_order)

def BubbleSort(self, sort_column, sort_order):
    rows = self.TableInform.rowCount()
```

```

        cols = self.TableInform.columnCount()

        data = [[self.TableInform.item(row, col).text() for col in range(cols)]
for row in range(rows)]

        # Get the column index for sorting
        column_index = self.get_column_index(sort_column)

        # Bubble Sort Implementation
        for i in range(rows - 1):
            for j in range(0, rows - i - 1):
                if (sort_order == "ASC" and data[j][column_index] > data[j +
1][column_index]) or \
                    (sort_order == "DESC" and data[j][column_index] < data[j
+ 1][column_index]):
                    data[j], data[j + 1] = data[j + 1], data[j]

        # Update the table after sorting
        for row in range(rows):
            for col in range(cols):
                self.TableInform.setItem(row, col,
QtWidgets.QTableWidgetItem(str(data[row][col])))

```

6. Sorting by

Buat Tampilan

```

self.ComboBoxSortBy = QtWidgets.QComboBox(Form)
self.ComboBoxSortBy.setGeometry(QtCore.QRect(370, 50, 131, 31))
self.ComboBoxSortBy.setObjectName("ComboBoxSortBy")

```

```
self.ComboBoxSortBy.addItem(["No. Kamar", "Nama", "Tanggal In",  
"Tanggal Out"])
```

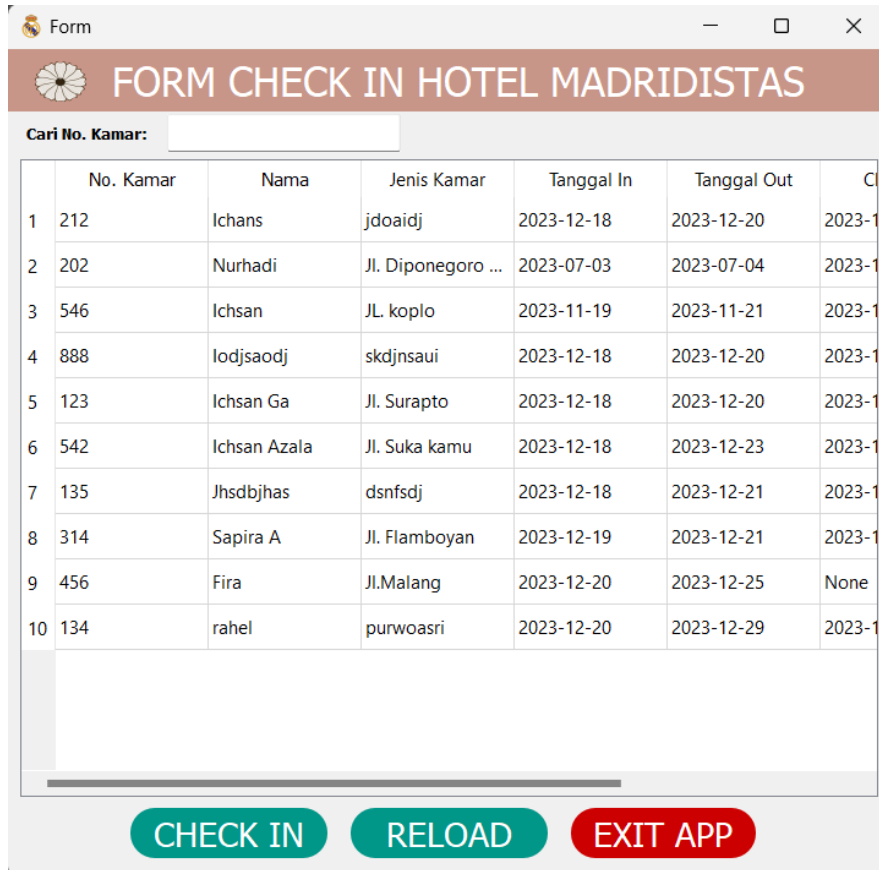
7. Sorting order

Buat Tampilan

```
self.ComboBoxSortOrder = QtWidgets.QComboBox(Form)  
self.ComboBoxSortOrder.setGeometry(QtCore.QRect(510, 50, 81, 31))  
self.ComboBoxSortOrder.setObjectName("ComboBoxSortOrder")  
self.ComboBoxSortOrder.addItem(["ASC", "DESC"])
```

3. Form Chek In/Out

a) Tampilan



	No. Kamar	Nama	Jenis Kamar	Tanggal In	Tanggal Out	C
1	212	Ichans	jdoaidj	2023-12-18	2023-12-20	2023-1
2	202	Nurhadi	Jl. Diponegoro ...	2023-07-03	2023-07-04	2023-1
3	546	Ichsan	Jl. koplo	2023-11-19	2023-11-21	2023-1
4	888	Iodjsaodj	skdjnsau	2023-12-18	2023-12-20	2023-1
5	123	Ichsan Ga	Jl. Surapto	2023-12-18	2023-12-20	2023-1
6	542	Ichsan Azala	Jl. Suka kamu	2023-12-18	2023-12-23	2023-1
7	135	Jhsdbjhas	dsnfsdj	2023-12-18	2023-12-21	2023-1
8	314	Sapira A	Jl. Flamboyan	2023-12-19	2023-12-21	2023-1
9	456	Fira	Jl.Malang	2023-12-20	2023-12-25	None
10	134	rahel	purwoasri	2023-12-20	2023-12-29	2023-1

b) Deskripsi Form Check In/Out

Form ini berfungsi untuk check in/out pesanan yang menandakan bahwa memulai / Mengakhiri durasi waktu sewa sudah habis. Dengan menggunakan tombol check in/out untuk mencatat bahwa kamar telah di pakai atau sedang ada orang di dalam nya.

c) Detail Check in/out

- Komponen Visual, Text, dan Variable

Komponen Visual	Text	Variable
-----------------	------	----------

Self.labelsearch	Cari No.Kamar	-
Self.BtnEdit_2	Check In	-
Self.BtnDelete	Exit App	-
Self.BtnReload	Reload	-

- Source Code

1. Label search

```

self.LabelSearch = QtWidgets.QLabel(Form)
    self.LabelSearch.setGeometry(QtCore.QRect(15, 53, 131, 31))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    font.setBold(True)
    font.setWeight(75)
    self.LabelSearch.setFont(font)
    self.LabelSearch.setObjectName("LabelSearch")
    self.LabelSearch.setText("Cari No. Kamar:")

```

2. Tombol Chek In

Buat Tampilan

```

self.BtnEdit_2 = QtWidgets.QPushButton(Form)
    self.BtnEdit_2.setGeometry(QtCore.QRect(100, 620, 161, 41))
    font = QtGui.QFont()
    font.setFamily("Sans Serif")
    font.setPointSize(17)
    font.setBold(False)
    font.setWeight(50)
    self.BtnEdit_2.setFont(font)

```

```

self.BtnEdit_2.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor)
)

self.BtnEdit_2.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n"
"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(0,150,136);\n"
"}")

self.BtnEdit_2.setObjectName("BtnEdit_2")
self.BtnEdit_2.clicked.connect(self.ClickedCheckIn)

```

Fungsi Tombol

```

def ClickedCheckIn(self):

    conn = pymysql.connect(user="root", db="Hotel", autocommit=True)
    cursor = conn.cursor()

    Date = datetime.datetime.now()
    Year = str(Date.year)
    Month = str(Date.month)
    Day = str(Date.day)

```

```

        equery = ("UPDATE Transaksi SET check_in = %s WHERE
no_kamarFK = %s")

        cursor.execute(equery, (Year+"-"+Month+"-"+Day,
self.SelectedItems()))

        cursor.close()
        conn.close()
        self.ReloadData()
        self.show_message("Check In", "Check In Selesai")

```

3. Tombol reload

Tampilan Tombol

```

self.BtnReload = QtWidgets.QPushButton(Form)
self.BtnReload.setGeometry(QtCore.QRect(190, 480, 161, 41))
font = QtGui.QFont()
font.setFamily("Sans Serif")
font.setPointSize(17)
font.setBold(False)
font.setWeight(50)
self.BtnReload.setFont(font)

self.BtnReload.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor)
)

self.BtnReload.setStyleSheet("QPushButton{\n"
"background-color: rgb(0, 150, 136);\n"
"color:white;\n"
"border-style:outset;\n"
"border-radius:20px;\n"
"}\n")

```

```

"QPushButton::hover{\n"
"background-color: rgb(255, 255, 255);\n"
"color:black;\n"
"border-style:outset;\n"
"border-width:2px;\n"
"border-radius:20px;\n"
"border-color:rgb(0,150,136);\n"
"}")

self.BtnReload.setObjectName("BtnReload")
self.BtnReload.clicked.connect(self.clickedReload)

```

Fungsi Tombol

```

def ReloadData(self):
    db = mysql.connector.connect(user="root", database="Hotel")
    cursor = db.cursor()
    query = ("SELECT `Kamar`.`no_kamar`, `Tamu`.`nama_tamu`,
`Tamu`.`alamat`, `Kamar`.`jenis_kamar`, `Transaksi`.`tanggal_in`,
`Transaksi`.`tanggal_out`, `Transaksi`.`jumlah` FROM Transaksi, Kamar,
Tamu WHERE Kamar.no_kamar = Transaksi.no_kamarFK AND
Tamu.id_tamu = Transaksi.id_tamuFK")
    cursor.execute(query)
    self.TableInform.setRowCount(0)
    for row_number, row_data in enumerate(cursor):
        self.TableInform.insertRow(row_number)
        for colum_number, data in enumerate(row_data):
            self.TableInform.setItem(row_number, colum_number,
QtWidgets.QTableWidgetItem(str(data)))

    total_income = self.calculate_total_income() # Add this line
    self.LabelTotalIncome.setText(f"Total Income: Rp.

```



```
{total_income:,.2f}") # Update this line
```

```
db.commit()  
cursor.close()  
db.close()
```

4. Tombol Exit app

Tampilan Tombol

```
self.BtnExit = QtWidgets.QPushButton(Form)  
    self.BtnExit.setGeometry(QtCore.QRect(110, 540, 151, 41))  
    font = QtGui.QFont()  
    font.setPointSize(17)  
    self.BtnExit.setFont(font)  
  
self.BtnExit.setCursor(QtGui.QCursor(QtCore.Qt.PointingHandCursor))  
    self.BtnExit.setStyleSheet("QPushButton{\n"  
"background-color: rgb(204, 0, 0);\n"  
"color:white;\n"  
"border-style:outset;\n"  
"border-radius:20px;\n"  
"}\n"  
"QPushButton::hover{\n"  
"background-color: rgb(255, 255, 255);\n"  
"color:black;\n"  
"border-style:outset;\n"  
"border-width:2px;\n"  
"border-radius:20px;\n"  
"border-color:rgb(204, 0, 0);\n"  
"}")
```

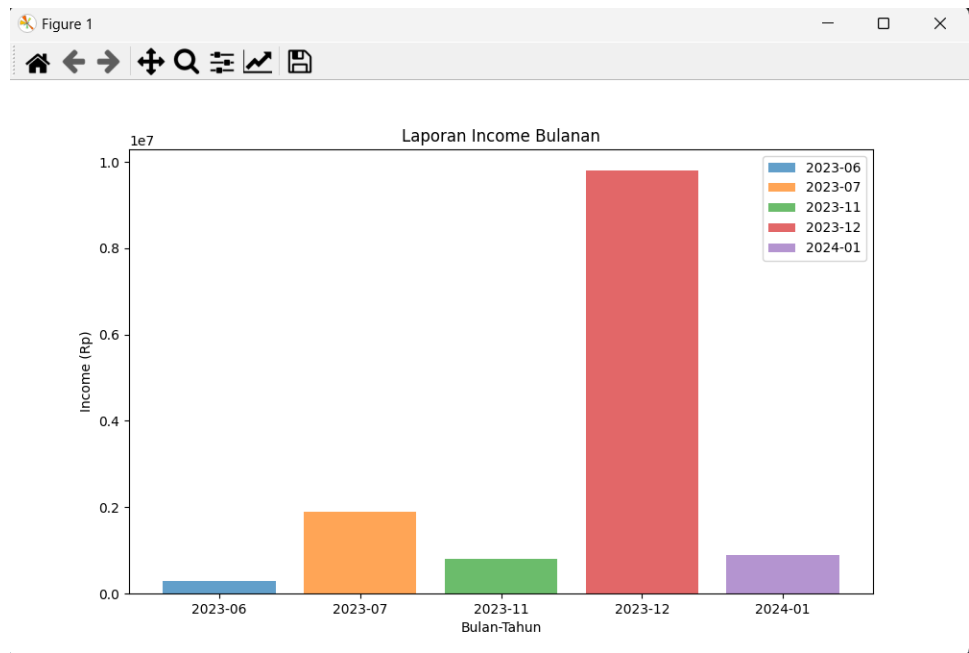
```
self.BtnExit.setObjectName("BtnExit")  
self.BtnExit.clicked.connect(self.ClickedExit)
```

Fungsi Tombol

```
def ClickedExit(self):  
    msg = QtWidgets.QMessageBox()  
    msg.setWindowTitle("Exit Aplication")  
    msg.setText("Are you sure exit?")  
    msg.setIcon(QtWidgets.QMessageBox.Question)  
    msg.setStandardButtons(QtWidgets.QMessageBox.Cancel |  
QtWidgets.QMessageBox.Yes)  
    msg.setDefaultButton(QtWidgets.QMessageBox.Cancel)  
    msg.buttonClicked.connect(self.LogOut)  
  
    x = msg.exec_()
```

4.Income / Laporan keuangan perbulan

a) Tampilan



b) Komponen Visual, Text dan Variabel

Komponen Visual	Text	Variabel
ax.set_xlabel	Bulan	-
ax.set_ylabel	Income	-
ax.set_title	Laporan Income Bulanan	-

c) Source Code

1. Tampilan form

```
def __init__(self):
    super(LaporanIncome, self).__init__()
```

```
self.central_widget = QWidget(self)
self.setCentralWidget(self.central_widget)

self.layout = QVBoxLayout(self.central_widget)
self.canvas = FigureCanvas(Figure(figsize=(10, 6)))
self.layout.addWidget(self.canvas)
self.setWindowTitle('Income Bulanan')
```

2. Gambar grafik

```
def plot_monthly_income(self):
    import matplotlib.pyplot as plt

    # Fetch monthly income data from the database
    monthly_income_data = self.fetch_monthly_income()

    # Extract years, months, and income from the data
    years_months_income = {entry[:2]: entry[2] for entry in
monthly_income_data}

    # Plotting
    fig, ax = plt.subplots(figsize=(10, 6))

    for (year, month), income in years_months_income.items():
        ax.bar(f"{year}-{month:02d}", income, label=f"{year}-{month:02d}",
alpha=0.7)

    ax.set_xlabel('Bulan-Tahun')
    ax.set_ylabel('Income (Rp)')
    ax.set_title('Laporan Income Bulanan')
    ax.legend()
```

```
# Display the plot
self.canvas.figure = fig
self.canvas.draw()
```

```
# Start Matplotlib event loop
plt.show(block=False)
```

Data Query

```
def fetch_monthly_income(self):
    db = mysql.connector.connect(user="root", database="Hotel")
    cursor = db.cursor()

    query = """
        SELECT YEAR(tanggal_in) AS year, MONTH(tanggal_in) AS
month, SUM(jumlah) AS total_income
        FROM Transaksi
        GROUP BY YEAR(tanggal_in), MONTH(tanggal_in)
    """

    cursor.execute(query)

    monthly_income_data = cursor.fetchall()

    db.commit()
    cursor.close()
    db.close()

    return monthly_income_data
```

QUERY

A. Menampilkan form

1. Booking

```
SELECT
    `Kamar`.`no_kamar`,
    `Tamu`.`nama_tamu`,
    `Tamu`.`alamat`,
    `Kamar`.`jenis_kamar`,
    `Transaksi`.`tanggal_in`,
    `Transaksi`.`tanggal_out`,
    `Transaksi`.`jumlah`
FROM
    Transaksi, Kamar, Tamu
WHERE
    Kamar.no_kamar = Transaksi.no_kamarFK AND Tamu.id_tamu =
    Transaksi.id_tamuFK;
```

2. Edit

```
SELECT
    `Kamar`.`no_kamar`,
    `Tamu`.`nama_tamu`,
    `Tamu`.`alamat`,
    `Kamar`.`jenis_kamar`,
    `Transaksi`.`tanggal_in`,
```

```
        `Transaksi`.`tanggal_out`,
        `Transaksi`.`jumlah`
FROM
        Transaksi, Kamar, Tamu
WHERE
        Kamar.no_kamar = Transaksi.no_kamarFK AND Tamu.id_tamu =
        Transaksi.id_tamuFK;
```

3. Check In/Out

```
query = ("SELECT `Kamar`.`no_kamar`, `Tamu`.`nama_tamu`,
`Tamu`.`alamat`, `Transaksi`.`tanggal_in`, `Transaksi`.`tanggal_out`,
`Transaksi`.`check_in`, `Transaksi`.`check_out` FROM Transaksi, Kamar,
Tamu WHERE Kamar.no_kamar = Transaksi.no_kamarFK AND
Tamu.id_tamu = Transaksi.id_tamuFK")
```

B. Fungsi tombol

1. Submit booking

```
query1 = ("SELECT `Tamu`.`id_tamu`, `Transaksi`.`id_transaksi` FROM
Transaksi, Tamu WHERE Tamu.id_tamu = Transaksi.id_tamuFK")
cursor.execute(query1)
for (dataTamu, dataTransaksi) in cursor:
    id_tamu = int(dataTamu)
    id_transaksi = int(dataTransaksi)

    harga = 0
```

```

        if self.infoRadio == "Ekonomi":
            harga = 300000
        else :
            harga = 400000

        total_cost = harga * num_days

        query2 = ("INSERT INTO Tamu(id_tamu, nama_tamu, alamat)
VALUES(%s, %s, %s)")
        cur.execute(query2, (id_tamu+1, self.FormNama.text(),
self.LineAlamat.text()))

        query3 = ("INSERT INTO Kamar(no_kamar, id_tamuFK, jenis_kamar)
VALUES(%s, %s, %s)")
        cur.execute(query3, (self.FormNoKamar.text(), id_tamu+1,
self.infoRadio))

        query4 = ("INSERT INTO Transaksi(id_transaksi, id_tamuFK,
no_kamarFK, tanggal_in, tanggal_out, jumlah) VALUES(%s, %s, %s, %s,
%s, %s)")
        cur.execute(query4, (id_transaksi+1, id_tamu+1,
self.FormNoKamar.text(), formatted_date_in, formatted_date_out, total_cost))

```

2. Edit

```

query = ("SELECT id_transaksi, id_tamuFK, no_kamarFK FROM Transaksi
WHERE no_kamarFK = %s")

query2 = ("UPDATE Tamu SET nama_tamu = %s, alamat = %s WHERE
id_tamu = %s")

        cursor.execute(query2, (self.FormNama.text(), self.LineAlamat.text(),
id_tamu))

```



```
query3 = ("UPDATE Kamar SET jenis_kamar = %s WHERE no_kamar = %s")
cursor.execute(query3, (self.infoRadio, id_kamar))
query4 = ("UPDATE Kamar SET no_kamar = %s WHERE no_kamar = %s")
cursor.execute(query4, (self.FormNoKamar.text(), id_kamar))
query5 = ("UPDATE Transaksi SET no_kamarFK = %s, tanggal_in = %s, tanggal_out = %s, jumlah = %s WHERE id_transaksi = %s")
cursor.execute(query5, (self.FormNoKamar.text(), DateIn, DateOut, total_cost, id_transaksi))
```

3. Delete

```
query = ("SELECT id_transaksi, id_tamuFK, no_kamarFK FROM Transaksi WHERE no_kamarFK = %s")
query2 = ("DELETE FROM Transaksi WHERE id_transaksi = %s")
cursor.execute(query2, id_transaksi)
query3 = ("DELETE FROM Tamu WHERE id_tamu = %s")
cursor.execute(query3, id_tamu)
query4 = ("DELETE FROM Kamar WHERE no_kamar = %s")
cursor.execute(query4, id_kamar)
```

4. Chek in/out

```
equery = ("UPDATE Transaksi SET check_in = %s WHERE no_kamarFK = %s")
```

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