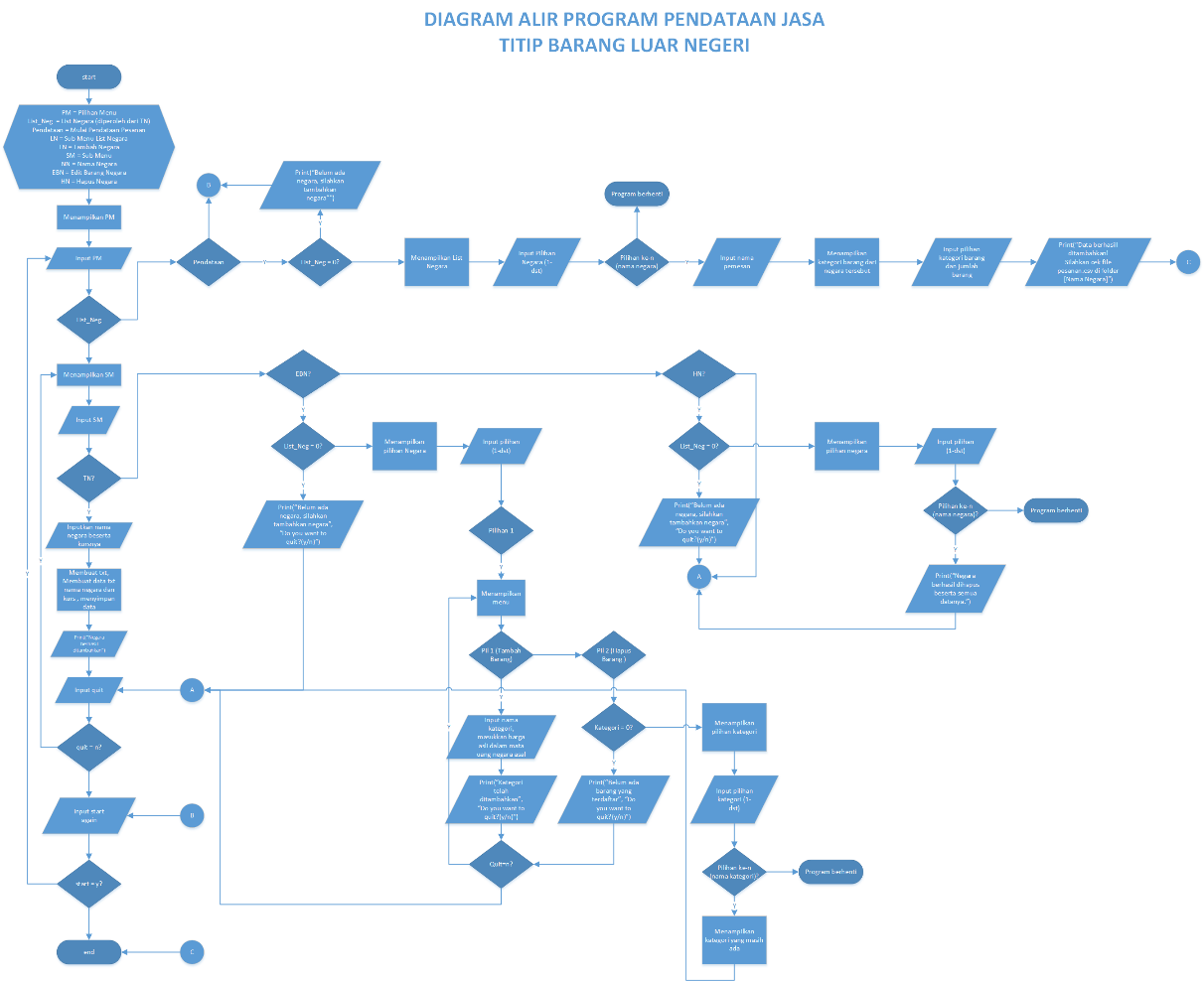
**LAPORAN TUGAS PEMROGRAMAN KOMPUTER KELOMPOK 4 (PROGRAM PENDATAAN JASA TITIP LUAR NEGERI)**

**1. Penjelasan Singkat Program dan Algoritma**

Program aplikasi pendataan jasa titip luar negeri dirancang khusus bagi pengguna yang memiliki usaha jasa titip barang dari luar negeri. Dengan adanya program ini, diharapkan pelaku jastip lebih mudah, cepat, dan efisien dalam merekap transaksi pesanan dari pembeli yang berada di Indonesia. Untuk menghindari kesalahan dalam pembelian barang oleh pelaku jastip, program aplikasi ini mampu mengelompokkan pesanan berdasarkan jenis barang dan negara tujuan barang yang dipesan oleh *customer.* Selain itu, tersedia juga layanan konversi mata uang, sehingga pelaku jastip tidak perlu kesulitan dalam mengonversi mata uang luar negeri ke rupiah. Beberapa fitur yang ditawarkan oleh program ini, yaitu :

1. Melakukan pencatatan pesananAnda
2. Melihat pesanansecara langsung
3. Menyimpan database pesanan dan pelanggan dalam bentuk csv/excel

Alur dari program yang telah dibuat adalah sebagai berikut.



**2. Python Code**

**Person.py**

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| import os  class Person:  \_person\_name = ""  \_name\_kategori\_file = ""  def \_\_init\_\_(self, country, person\_name):  # create folder if not exist  if not os.path.exists(country):  os.makedirs(country)  self.\_person\_name = country  self.\_name\_kategori\_file = os.path.join(country, person\_name + ".txt")  # create file first if not exist  \_\_file = open(self.\_name\_kategori\_file, "a")  \_\_file.close()  def add\_product(self, product, amount):  if product not in self.\_get\_list\_product():  \_\_file = open(self.\_name\_kategori\_file, "a")  \_\_file.write(product + "," + str(amount) + "\n")  \_\_file.close()  else:  print("Produk sudah ditambahkan")  def get\_raw\_product(self):  \_\_file = open(self.\_name\_kategori\_file, "r")  return \_\_file.readlines()  def \_get\_list\_product(self):  \_\_file = open(self.\_name\_kategori\_file, "r")  list\_beli = \_\_file.readlines()  for index, item in enumerate(list\_beli):  list\_beli[index] = item.split(",")[0]  return list\_beli    def delete\_product(self,product\_name):  if product\_name in self.\_get\_list\_product():  index\_product = self.\_get\_list\_product().index(product\_name)  list\_raw = self.get\_raw\_product()  del list\_raw[index\_product]  self.\_update\_product(list\_raw)    def \_update\_product(self, list\_product):  \_\_file = open(self.\_name\_kategori\_file, "w")  \_\_file.writelines(list\_product)  \_\_file.close() |

**Barang.py**

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| import os  import shutil  from Person import Person  class BarangJual:  \_name\_kategori\_file = ""  \_country\_name = ""  def \_\_init\_\_(self, country):  # create folder if not exist  if not os.path.exists(country):  os.makedirs(country)  self.\_country\_name = country  self.\_name\_kategori\_file = os.path.join(country, "barang.txt")  # create file first if not exist  \_\_file = open(self.\_name\_kategori\_file, "a")  \_\_file.close()  def switch(self, kode):  return getattr(self, "\_menu\_" + str(kode), lambda: self.\_default)()  def listBarang(self):  print("Daftar kategori : ")  kategori = self.get\_kategori()  if len(kategori) != 0:  for index, text in enumerate(self.get\_kategori()):  print("\t" + str(index + 1) + ". " + text)  else:  print("Kategori kosong")  def \_menu\_1(self):  name = input("Masukkan nama kategori : ")  harga = float(input("Masukkan harga(" + self.\_country\_name + ") : "))  if self.\_add\_kategori(name, harga):  print("Kategori telah di tambahkan :")  for index, text in enumerate(self.get\_kategori()):  print("\t" + str(index + 1) + ". " + text)  print("\n")  else:  print("Kategori sudah ada")  def \_menu\_2(self):  if len(self.get\_kategori()) != 0:  index\_barang = int(input("Pilih barang yang ingin di hapus: ")) - 1  list\_raw = self.get\_raw\_kategori()  list\_person = self.\_get\_list\_person(self.\_country\_name)  if len(list\_person)!=0:  for person in list\_person:  Person(self.\_country\_name,person.replace("\n","")).delete\_product(self.get\_kategori()[index\_barang])  del list\_raw[index\_barang]  self.\_update\_barang(list\_raw)  self.listBarang()    else:  print("Belum ada barang yg terdaftar")  def \_default(self):  print("invalid code, pick again")  def \_update\_barang(self, list\_barang):  \_\_file = open(self.\_name\_kategori\_file, "w")  \_\_file.writelines(list\_barang)  \_\_file.close()  def get\_raw\_kategori(self):  \_\_file = open(self.\_name\_kategori\_file, "r")  return \_\_file.readlines()  def get\_kategori(self):  \_\_file = open(self.\_name\_kategori\_file, "r")  list\_barang = \_\_file.readlines()  for index, barang in enumerate(list\_barang):  list\_barang[index] = barang.split(",")[0]  return list\_barang  def delete\_country(self):  shutil.rmtree(self.\_country\_name)  def \_add\_kategori(self, kategori, harga):  if len(self.get\_kategori()) == 0 or kategori not in self.get\_kategori():  \_\_file = open(self.\_name\_kategori\_file, "a")  \_\_file.write(kategori + "," + str(harga) + "\n")  \_\_file.close()  return True  else:  return False    def \_get\_list\_person(self,country\_name):  \_file = open(os.path.join(country\_name, "person.txt"),"a+")  \_file.seek(0)  return \_file.readlines() |

**MenuNegara.py**

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| from os import system  from Barang import BarangJual  class MenuNegara:  def \_\_init\_\_(self):  \_\_file = open("country\_list.txt", "a")  \_\_file.close()  def switch(self, kode):  return getattr(self, "\_menu\_" + str(kode), lambda: self.\_default)()  def \_default(self):  print("invalid code, pick again")  def \_menu\_1(self):  system("cls")  country\_name = input("Masukkan nama negara : ")  country\_kurs = float(input("Masukkan nilai kurs ke INA : "))  if country\_name not in self.listNegara():  \_\_file = open("country\_list.txt", "a")  \_\_file.write(country\_name + "," + str(country\_kurs) + "\n")  \_\_file.close()  print("Berhasil menambahkan negara")  else:  print("Negara sudah ada")  def \_menu\_2(self):  system("cls")  if len(self.listNegara())!=0:  print("Pilih Negara yang ingin di edit barangnya: ")  for index, country in enumerate(self.listNegara()):  print("\t" + str(index + 1) + ". " + country)  index\_country = int(input("Pilihan : ")) - 1  iterasi = True  while iterasi:  self.\_menuEditBarangNegara(index\_country)  iterasi = True if input("do you want to quit? (y/n)") == "n" else False  else:  print("Negara belum ada, silahkan menambahkan negara terlebih dahulu")  def \_menu\_3(self):  system("cls")  if len(self.listNegara()) != 0:  print("Pilih Negara yang ingin di hapus: ")  for index, country in enumerate(self.listNegara()):  print("\t" + str(index + 1) + ". " + country)  index\_country = int(input("Pilihan : ")) - 1  list\_raw = self.get\_raw\_country()  barang\_country = BarangJual(self.listNegara()[index\_country])  barang\_country.delete\_country()  del list\_raw[index\_country]  self.\_update\_country(list\_raw)  print("Berhasil menghapus negara beserta semua datanya")  else:  print("Negara belum ada, silahkan menambahkan negara terlebih dahulu")  def \_update\_country(self, list):  \_\_file = open("country\_list.txt", "w")  \_\_file.writelines(list)  \_\_file.close()  def get\_raw\_country(self):  \_\_file = open("country\_list.txt", "r")  return \_\_file.readlines()  def listNegara(self):  \_\_file = open("country\_list.txt", "r")  country\_list = \_\_file.readlines()  \_\_file.close()  for index, country in enumerate(country\_list):  country\_list[index] = country.split(",")[0]  return country\_list  def \_menuEditBarangNegara(self, index\_country):  print("\n")  menu\_barang = BarangJual(self.listNegara()[index\_country])  menu\_barang.listBarang()  print("1. Tambah Barang")  print("2. Hapus Barang")  code\_menu = input("Pilihan : ")  menu\_barang.switch(code\_menu) |

**MenuPesanan.py**

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| import csv  import os  from os import system  from Barang import BarangJual  from MenuNegara import MenuNegara  from Person import Person  class MenuPesanan:  \_country\_name = ""  \_file\_person\_name = ""  \_file\_pesanan\_csv = ""  def \_\_init\_\_(self, country):  self.\_file\_person\_name = os.path.join(country, "person.txt")  self.\_file\_pesanan\_csv = os.path.join(country, "pesanan.csv")  \_file = open(self.\_file\_person\_name, "a")  \_file.close()  self.\_country\_name = country  def switch(self, kode):  return getattr(self, "\_menu\_" + str(kode), lambda: self.\_default)()  def \_default(self):  print("invalid code, pick again")  def \_menu\_1(self):  name\_person = input("Masukkan nama pemesan : ")  if (name\_person+"\n") not in self.get\_list\_person():  \_file = open(self.\_file\_person\_name, "a")  \_file.write(name\_person + "\n")  \_file.close()  produk\_iterasi = True  while produk\_iterasi:  system("cls")  print("\tPesanan untuk " + name\_person)  menuBarang = BarangJual(self.\_country\_name)  menuPerson = Person(self.\_country\_name, name\_person)  print("Pilih Produk :")  for index, product in enumerate(menuBarang.get\_kategori()):  print(str(index + 1) + ". " + product)  index\_product = int(input("Pilihan : ")) - 1  jumlah\_barang = int(input("Jumlah barang : "))  menuPerson.add\_product(menuBarang.get\_kategori()[index\_product], jumlah\_barang)  print("Berhasil menambahkan data!")    with open(self.\_file\_pesanan\_csv, mode="w", newline="") as \_file\_open:  \_header = ["No", "Nama", "Barang", "Harga Barang", "Jumlah", "Total Harga(" + self.\_country\_name + ")",  "Total Harga(INA)"]  \_writer = csv.DictWriter(\_file\_open, \_header)  \_writer.writeheader()  \_count = 1  for index, name in enumerate(self.get\_list\_person()):  \_name = name.replace("\n", "")  menuPerson = Person(self.\_country\_name, \_name)  for index, product in enumerate(menuPerson.get\_raw\_product()):  \_item = product.split(",")[0]  \_amount = product.split(",")[1].replace("\n", "")  menuBarang = BarangJual(self.\_country\_name)  \_index\_barang = menuBarang.get\_kategori().index(\_item)  \_price = menuBarang.get\_raw\_kategori()[\_index\_barang].split(",")[1].replace("\n", "")  menuNegara = MenuNegara()  index\_negara = menuNegara.listNegara().index(self.\_country\_name)  \_kurs = menuNegara.get\_raw\_country()[index\_negara].split(",")[1].replace("\n", "")  \_input = {  "No": \_count,  "Nama": \_name,  "Barang": \_item,  "Harga Barang": \_price,  "Jumlah": \_amount,  "Total Harga(" + self.\_country\_name + ")": float(\_price) \* int(\_amount),  "Total Harga(INA)": float(\_price) \* int(\_amount) \* float(\_kurs)  }  \_writer.writerow(\_input)  \_count += 1  print("\tCetak list pesanan berdasarkan")  print("\tSilahkan cek file pesanan.csv di folder [" + self.\_country\_name + "]")  produk\_iterasi = True if input("ingin menambah barang lagi?(y,n)") == "y" else False  def get\_list\_person(self):  \_file = open(self.\_file\_person\_name, "r")  return \_file.readlines() |

**main.py**

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| from os import system  from MenuPesanan import MenuPesanan  from MenuNegara import MenuNegara  class MainMenu:  def switch(self, kode):  return getattr(self, "\_menu\_" + str(kode), lambda: self.\_default)()  def \_default(self):  print("invalid code, pick the correct code")  def \_menu\_1(self):  print("\n\n")  \_iterasi = True  menuNegara = MenuNegara()  while \_iterasi:  system("cls")  print("\tNegara JasTip")  if len(menuNegara.listNegara()) != 0:  for index, country in enumerate(menuNegara.listNegara()):  print(str(index + 1) + ". " + country)  else:  print("--Masih Kosong--")  print("Pilih Menu:")  print("\t1. Tambah Negara\n"  "\t2. Edit Barang Negara\n"  "\t3. Hapus Negara")  menu\_code = int(input("PIlihan : "))  menuNegara.switch(menu\_code)  \_iterasi = True if (input("do you want to quit?(y/n) ") == "n") else False  def \_menu\_2(self):  print("\n\n")  menuNegara = MenuNegara()  if len(menuNegara.listNegara()) == 0:  print("Belum ada negara yg terdaftar, silahkan menambahkan negara terlebih dahulu")  else:  iterasi = True  while iterasi:  system("cls")  print("\tJasa Titip Antar Negara")  for index, country in enumerate(menuNegara.listNegara()):  print(str(index + 1) + ". " + country)  index\_country = int(input("Pilih negara tujuan : ")) - 1  print("\n")  print("\t JasTip Negara " + menuNegara.listNegara()[index\_country] + "\n")  menu\_code = 1  menu\_pesanan = MenuPesanan(menuNegara.listNegara()[index\_country])  menu\_pesanan.switch(menu\_code)  iterasi = True if (input("do you want to quit?(y/n) ") == "n") else False  if \_\_name\_\_ == "\_\_main\_\_":  menu = MainMenu()  iterasi = True  print("------------------------------------------------------------------------------")  print("----------SELAMAT DATANG DI PENDATAAN JASA TITIP BARANG LUAR NEGERI-----------")  print("------------------------------------------------------------------------------")  while iterasi:  print("\tPilihan menu")  print("\t 1. List Negara\n"  "\t 2. Mulai Pendataan Pesanan")  menu\_kode = int(input("Pilih menu : "))  menu.switch(menu\_kode)  iterasi = True if (input("start again?(y/n) ") == "y") else False |