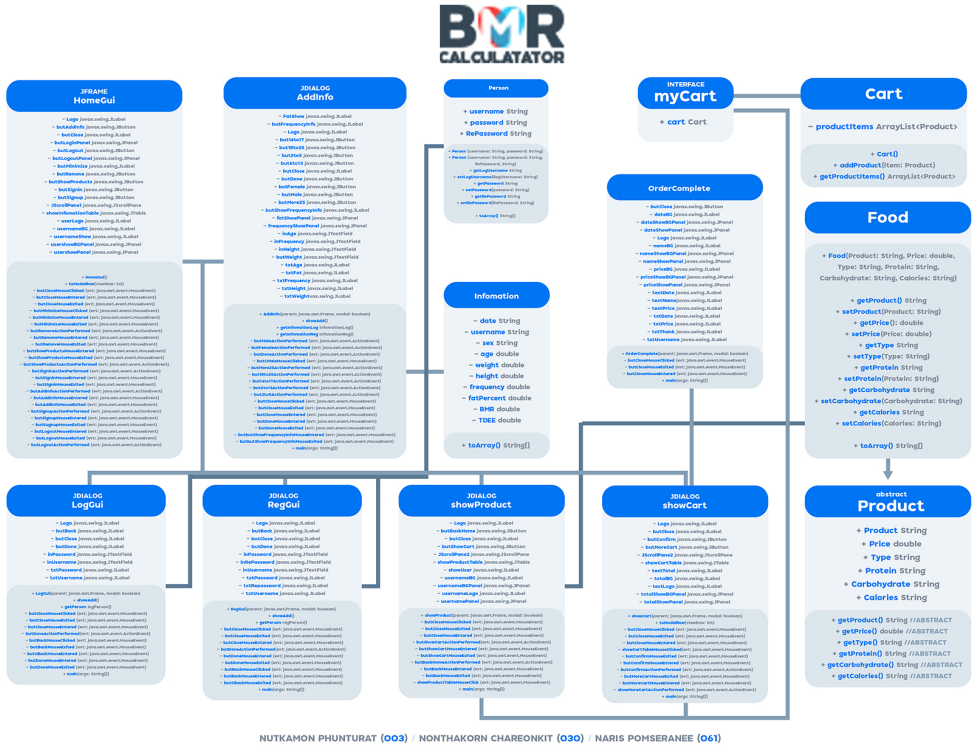
FINAL PROJECT



NUTKAMON PHUNTURAT (003) / NONTHAKORN CHAREONKIT (030) / NARIS POMSERANEE (061)

MEMBERS

NUTKAMON PHUNTURAT 003 NONTHAKORN CHAREONKIT 030 NARIS POMSERANEE 061

FINAL PROJECT

ENCAPSULATION

```
ublic class Infomation {
    private String date;
    private String username;
    private String sex;
    private double age;
    private double weight;
    private double height;
    private double frequency;
    private double fatPercent;
    private double BMR;
    private double TDEE;

    public Infomation(String date, String username, String sex, double age, double weight, double height,
        this.date = date;
        this.username = Person.username;
        this.sex = sex;
        this.age = age;
        this.weight = weight;
        this.height = height;
        this.frequency = frequency;
        this.fatPercent = fatPercent;
        this.BMR = BMR;
        this.TDEE = TDEE;
    }

    public String getDate() {
        return date;
    }

    public void setDate(String date) {
        this.date = date;
    }

    public String getUsername() {
        return username;
    }
```

INHERITAGE

```
ublic class Food extends Product {

    public Food (String product, String protein, String carbohydrate, String cal
        super.Product = product;
        super.Type = type;
        super.Price = price;
        super.Protein = protein;
        super.Carbohydrate = carbohydrate;
        super.Calories = calories;
    }

    public String getProduct() {
        return Product;
    }

    public void setProduct(String Product) {
        this.Product = Product;
    }

    public double getPrice() {
        return Price;
    }

    public void setPrice(double Price) {
        this.Price = Price;
    }
```

ABSTRACTION / INTERFACE

```
public abstract class Product {
    public String Product;
    public double Price;
    public String Type;
    public String Protein;
    public String Carbohydrate;
    public String Calories;

    public abstract String getProduct();
    public abstract double getPrice();
    public abstract String getType();
    public abstract String getProtein();
    public abstract String getCarbohydrate();
    public abstract String getCalories();
}
```

```
public interface myCart {
    public Cart cart = new Cart();
}
```

NUTKAMON PHUNTURAT (003) / NONTHAKORN CHAREONKIT (030) / NARIS POMSERANEE (061)

FINAL PROJECT

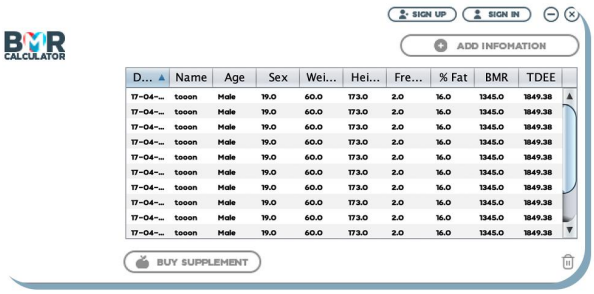
ADDING, UPDATE, DELETE FILE

```
private void butCloseMouseClicked(java.awt.event.MouseEvent evt) {
    Formatter outFile = null;

    try {
        outFile = new Formatter(FILE_NAME);
        for (int row = 0; row < showInfomationTable.getRowCount(); row++) {
            outFile.format("%s,%s,%s,%s,%s,%s,%s,%s,%s,%s\n",
                    dtm.getValueAt(row, 0),
                    dtm.getValueAt(row, 1),
                    dtm.getValueAt(row, 2),
                    dtm.getValueAt(row, 3),
                    dtm.getValueAt(row, 4),
                    dtm.getValueAt(row, 5),
                    dtm.getValueAt(row, 6),
                    dtm.getValueAt(row, 7),
                    dtm.getValueAt(row, 8),
                    dtm.getValueAt(row, 9));
        }

    } catch (Exception e) {
        e.printStackTrace();
        return;
    } finally {
        if (outFile != null) {
            outFile.close();
        }
    }
```

ARRAYLIST

```
public class Cart {
    private ArrayList<Product> productItems;

    public Cart(){
        productItems = new ArrayList<>();
    }

    public void addProduct(Product item) {
        productItems.add(item);
    }

    public ArrayList<Product> getProduct(){
        return productItems;
    }
}
```

GUI



NUTKAMON PHUNTURAT (003) / NONTHAKORN CHAREONKIT (030) / NARIS POMSERANEE (061)

FINAL PROJECT

```
private void butCloseMouseClicked(java.awt.event.MouseEvent evt) {
    Formatter outFile = null;

    try {
        outFile = new Formatter(FILE_NAME);
        for (int row = 0; row < showInfomationTable.getRowCount(); row++) {
            outFile.format("%s,%s,%s,%s,%s,%s,%s,%s,%s,%s\n",
                    dtm.getValueAt(row, 0),
                    dtm.getValueAt(row, 1),
                    dtm.getValueAt(row, 2),
                    dtm.getValueAt(row, 3),
                    dtm.getValueAt(row, 4),
                    dtm.getValueAt(row, 5),
                    dtm.getValueAt(row, 6),
                    dtm.getValueAt(row, 7),
                    dtm.getValueAt(row, 8),
                    dtm.getValueAt(row, 9));
        }

    } catch (Exception e) {
        e.printStackTrace();
        return;
    } finally {
        if (outFile != null) {
            outFile.close();
        }
    }
    System.exit(0);
}
```

ButClose @HomeGui

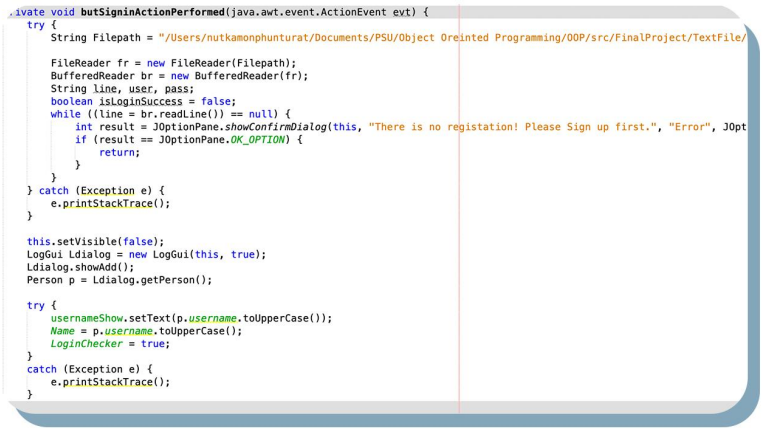
เมื่อกดปุ่มปิด จะนำข้อมูลในตารางลงใน Text File แล้วก็ปิดการทำงานของโปรแกรม

```
private void butShowProductsActionPerformed(java.awt.event.ActionEvent evt) {
    Formatter outFile = null;

    try {
        outFile = new Formatter(FILE_NAME);
        for (int row = 0; row < showInfomationTable.getRowCount(); row++) {
            outFile.format("%s,%s,%s,%s,%s,%s,%s,%s,%s,%s\n",
                    dtm.getValueAt(row, 0),
                    dtm.getValueAt(row, 1),
                    dtm.getValueAt(row, 2),
                    dtm.getValueAt(row, 3),
                    dtm.getValueAt(row, 4),
                    dtm.getValueAt(row, 5),
                    dtm.getValueAt(row, 6),
                    dtm.getValueAt(row, 7),
                    dtm.getValueAt(row, 8),
                    dtm.getValueAt(row, 9));
        }

    } catch (Exception e) {
        e.printStackTrace();
        return;
    } finally {
        if (outFile != null) {
            outFile.close();
        }
    }

    this.setVisible(false);
    showProduct sp = new showProduct(this, true);
    sp.setVisible(true);
}
```

ButShowProduct @HomeGui

เมื่อกดปุ่มปิด จะนำข้อมูลในตารางลงใน Text File แล้วก็เปิดหน้าแสดงรายการสินค้า

FINAL PROJECT



```
ivate void butSigninActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        String Filepath = "/Users/nutkamonphunturat/Documents/PSU/Object Oreinted Programming/OOP/src/FinalProject/TextFile/
        FileReader fr = new FileReader(Filepath);
        BufferedReader br = new BufferedReader(fr);
        String line, user, pass;
        boolean isLoginSuccess = false;
        while ((line = br.readLine()) == null) {
            int result = JOptionPane.showConfirmDialog(this, "There is no registation! Please Sign up first.", "Error", JOpt
            if (result == JOptionPane.OK_OPTION) {
                return;
            }
        }
    } catch (Exception e) {
        e.printStackTrace();
    }

    this.setVisible(false);
    LogGui Ldialog = new LogGui(this, true);
    Ldialog.showAdd();
    Person p = Ldialog.getPerson();

    try {
        usernameShow.setText(p.username.toUpperCase());
        Name = p.username.toUpperCase();
        LoginChecker = true;
    }
    catch (Exception e) {
        e.printStackTrace();
    }
```

ButSignin @HomeGui

เมื่อกดปุ่มจะทำการตรวจสอบประวัติการสมัครทั้งหมดในไฟล์ ถ้าไม่มีขึ้นข้อความให้สมัคร
หากมีบัญชีในไฟล์ จะเปิดหน้า Dialog Login ขึ้นมาให้ Login โดยเก็บข้อมูลโดย Class Person

```
private void butAddInfoActionPerformed(java.awt.event.ActionEvent evt) {
    AddInfo Adddialog = new AddInfo(this, true);
    this.setVisible(false);
    Adddialog.showAdd();
    Infomation info = Adddialog.getInfomation();
    if (info != null) {
        dtm.addRow(info.toArray());
    }
```

ButAddInfo @HomeGui

เมื่อกดปุ่มปิด จะเปิดหน้า Dialog หน้าเพิ่มข้อมูล เก็บข้อมูลโดย Class Infomation พอใส่ข้อมูลเสร็จ
จะมีการเช็ค ถ้า Info ไม่ว่างให้เพิ่มข้อมูลลงตาราง

```
private void butSignupActionPerformed(java.awt.event.ActionEvent evt) {
    this.setVisible(false);
    RegGui Rdialog = new RegGui(this, true);
    Rdialog.showAdd();
    Person r = Rdialog.getPerson();

    String FilePath = "/Users/nutkamonphunturat/Documents/PSU/Object Oreinte
    if (r != null) {
        try {
            LoginChecker = false;
            usernameShow.setText(r.username.toUpperCase());
            Name = r.username.toUpperCase();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

ButSignup @HomeGui

เมื่อกดปุ่มจะเปิดหนเาต่างการสมัครขึ้นมา เมื่อใส่ข้อมูลเสร็จจะเก็บข้อมูลโดย Class Infomation
และ เขียน username กับ password ลงไปในไฟล์เพื่อเอาไปใช้ในการ Login ครั้งต่อไป

NUTKAMON PHUNTURAT (003) / NONTHAKORN CHAREONKIT (030) / NARIS POMSERANEE (061)

FINAL PROJECT

```
ivate void butLogoutActionPerformed(java.awt.event.ActionEvent evt) {

  int result = JOptionPane.showConfirmDialog(this, "Do you want to Logout?", "LOGOUT", JOptionPane.OK_CANCEL_OPTION);

  if (result == JOptionPane.YES_OPTION) {
      Formatter outFile = null;
      try {
          outFile = new Formatter(FILE_NAME);
          for (int row = 0; row < showInfomationTable.getRowCount(); row++) {
              outFile.format("%s,%s,%s,%s,%s,%s,%s,%s,%s,%s\n",
                      dtm.getValueAt(row, 0),
                      dtm.getValueAt(row, 1),
                      dtm.getValueAt(row, 2),
                      dtm.getValueAt(row, 3),
                      dtm.getValueAt(row, 4),
                      dtm.getValueAt(row, 5),
                      dtm.getValueAt(row, 6),
                      dtm.getValueAt(row, 7),
                      dtm.getValueAt(row, 8),
                      dtm.getValueAt(row, 9));
          }

      } catch (Exception e) {
          e.printStackTrace();
      } finally {
          if (outFile != null) outFile.close();
      }

      HomeGui hgui = new HomeGui();
      hgui.setVisible(true);

      this.dispose();
  }
```

ButLogout @HomeGui

เมื่อกดปุ่ม จะทำการนำข้อมูลในตารางลงไปใน Text File แล้วเปิดหน้า HomeGui ใหม่อีกครั้ง

```
rivate void showProductTableMouseClicked(java.awt.event.MouseEvent evt) {
    int index = showProductTable.getSelectedRow();
    TableModel model = showProductTable.getModel();

    String product = model.getValueAt(index ,0).toString();
    String protein = model.getValueAt(index, 1).toString();
    String carbohydrate = model.getValueAt(index, 2).toString();
    String calories = model.getValueAt(index, 3).toString();
    String type = model.getValueAt(index, 4).toString();
    double price = Double.parseDouble(model.getValueAt(index, 5).toString());


    int result = JOptionPane.showConfirmDialog(this,
                                               "Do you want to add " + product + " ?",
                                               "BMR Shop",
                                               JOptionPane.YES_NO_OPTION,
                                               JOptionPane.QUESTION_MESSAGE);
    if (result == JOptionPane.YES_OPTION) {
            Food food = new Food(product ,protein, carbohydrate, calories, type, price);
            cart.addProduct(food);
            Price = Double.toString(price);
    }
```

showProductTableClick @showProduct

เมื่อคลิกข้อมูลในตาราง ที่ทำการดึงมาจาก File Product List จะทำการถามว่าจะเพิ่มสินค้าลงในตะกร้าหรือไม่ เมื่อตอบว่าใช่จะทำการเพิ่มลงตะกร้า

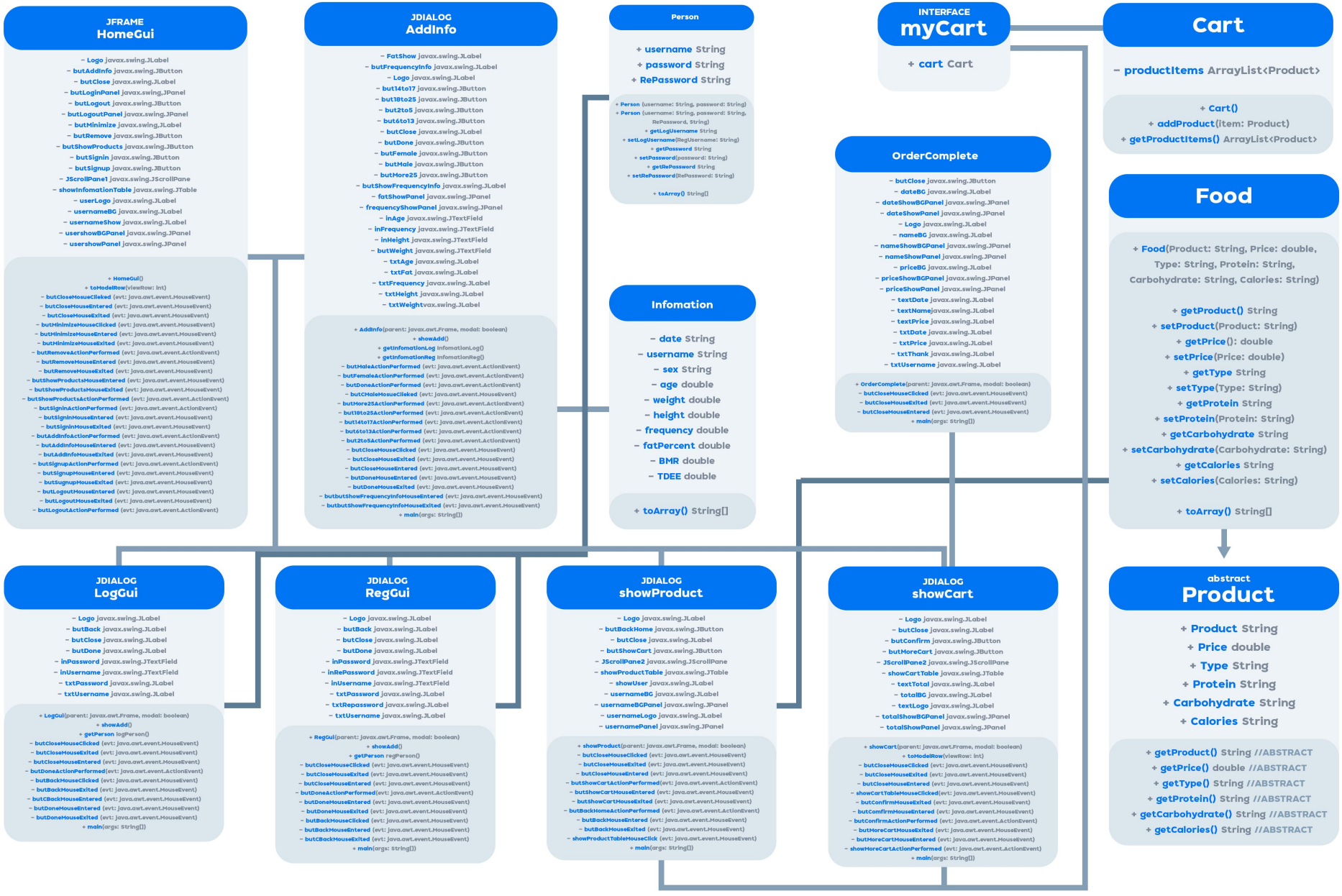
```
ivate void butConfirmActionPerformed(java.awt.event.ActionEvent evt) {
  Formatter outFile = null;
  LocalDate myTime = LocalDate.now();
  String myFormatTime = myTime.format(DateTimeFormatter.ofPattern("dd-MM-yy"));

  try {
      FileWriter writer = new FileWriter(FILE_NAME, true);
      BufferedWriter buffered = new BufferedWriter(writer);
      for (int row = 0; row < showCartTable.getRowCount(); row++) {
              buffered.write(myFormatTime + "," + HomeGui.Name + "," + dtm.getValueAt(row, 0) + "," + dtm.getValueAt(row, 1) +
                      + dtm.getValueAt(row, 3) + "," + dtm.getValueAt(row, 4) + "," + dtm.getValueAt(row, 5) + "\n");
              buffered.flush();
      }
      buffered.close();

  } catch (Exception e) {
      e.printStackTrace();
      return;
  } finally {
      if (outFile != null) {
          outFile.close();
      }
  }

  this.dispose();
  OrderComplete oc = new OrderComplete(HomeGui.Home, true);
  oc.setVisible(true);
```

butComfirm @showCart

เมื่อกดปุ่ม จะทำการนำข้อมูลในตะกร้าลงไปใน File แล้วก็จะเปิดหน้าสรุปและขอบคุณ

NUTKAMON PHUNTURAT (003) / NONTHAKORN CHAREONKIT (030) / NARIS POMSERANEE (061)

BMR CALCULATATOR



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