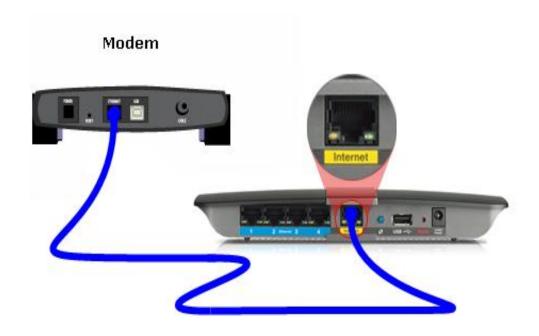


ROYAUME DU MAROC UNIVERSITÉ ABDELMALEK ESSAÂDI FACULTÉ DES SCIENCES ET TECHNIQUES TANGER



< Mini-Projet />
< Partie IG & API-JDBC />



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Définition de JAVA SWING :

 PSwing est une bibliothèque graphique pour le langage de programmation Java, faisant partie du package Java Fondation Classes (JFC), inclus dans J2SE.

Objectifs

Création d'un application qui gestion des produits et les commandes de pharmacie.

Partie 1 : Création de la base de transaction de données

✓ Dans cette partie j'ai crée une base de donnée s'appelle
 « BaseTransaction « comme une interface pour l'implémenter par les autres classes qu'on va les voirs

```
    ✓ package ma.fstt.model;
    import java.sql.Connection;
    import java.sql.DriverManager;
    import java.sql.PreparedStatement;
    import java.sql.ResultSet;
    import java.sql.SQLException;
    import java.sql.Statement;
```

```
import java.util.List;
public abstract class BaseTranscation<T> {
 protected Connection cnx ;
 protected Statement statement;
 protected PreparedStatement preparedStatement;
 protected ResultSet resultSet;
// private String url = "jdbc:mysql://localhost:3306/GPharmacie";
// private String login = "root";
// private String pass = "";
 public BaseTranscation() throws SQLException {
   this.cnx =
DriverManager.getConnection("jdbc:mysql://localhost:3306/GPharmacie",
 public abstract void save(T object) throws SQLException;
 public abstract void update(T object) throws SQLException;
 public abstract void delete(T object) throws SQLException ;
 public abstract List<T> getAll() throws SQLException ;
 public abstract T getOne(Integer id) throws SQLException;
```

Partie 2 : Créations des classes important :

 Premièrement j'ai crée une classe s'appelle client avec leur méthodes et attributs.

```
package ma.fstt.model;
import java.util.List;
// java bean
public class Client {
 private Integer id_client;
 private String nom;
 private String email;
 private String genre;
 private String password;
 private List<Commande> lsitcmds;
 public List<Commande> getLsitcmds() {
   return lsitcmds;
```

```
public void setLsitcmds(List<Commande> lsitcmds) {
   this.lsitcmds = lsitcmds;
 public Client(int id_client, String nom, String email, String genre,
String password) {
   super();
   this.id_client = id_client;
   this.nom = nom;
   this.email = email;
   this.genre = genre;
   this.password = password;
 public Client() {
   super();
   // TODO Auto-generated constructor stub
 public Integer getId_client() {
   return id_client;
 public void setId_client(Integer id_client) {
   this.id_client = id_client;
```

```
public String getNom() {
  return nom;
public void setNom(String nom) {
 this.nom = nom;
public String getEmail() {
 return email;
public void setEmail(String email) {
 this.email = email;
public String getGenre() {
 return genre;
public void setGenre(String genre) {
 this.genre = genre;
public String getPassword() {
   return password;
public void setPassword(String password) {
   this.password = password;
@Override
public String toString() {
 return "Client [id_client=" + id_client + ", nom=" + nom + ",
```

```
email=" + email + ", genre=" + genre + "]";
}
```

et son classe de transaction est :

```
package ma.fstt.model;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;

public class ClientTransaction extends BaseTranscation<Client>{
    private CommandeTransaction commandeTransaction;

    public ClientTransaction() throws SQLException {
        super();
        // TODO Auto-generated constructor stub

        commandeTransaction = new CommandeTransaction();
    }

@Override
    public void save(Client object) throws SQLException {
String request= "insert into client (nom, email, genre) values (?,?,?)";
```

```
this.preparedStatement = this.cnx.prepareStatement(request);
 // maooing relatipon et objet table client et objet client
 this.preparedStatement.setString(1, object.getNom());
 this.preparedStatement.setString(2, object.getEmail());
 this.preparedStatement.setString(3, object.getGenre());
 this.preparedStatement.execute();
@Override
public void update(Client object) throws SQLException {
 // TODO Auto-generated method stub
@Override
public void delete(Client object) throws SQLException {
 String request= "delete from client where id_client =?";
 this.preparedStatement = this.cnx.prepareStatement(request);
 this.preparedStatement.setInt(1, object.getId_client());
 this.preparedStatement.execute();
@Override
public List<Client> getAll() throws SQLException {
 // TODO Auto-generated method stub
 List<Client> malist = new ArrayList<Client>();
```

```
String request= "select * from client ";
   this.statement = this.cnx.createStatement();
   this.resultSet = this.statement.executeQuery(request);
   while (this.resultSet.next()) {
     malist.add(new Client( this.resultSet.getInt(1),
this.resultSet.getString(2), this.resultSet.getString(3),
this.resultSet.getString(4), this.resultSet.getString(5));
   return malist:
  @Override
 public Client getOne(Integer id) throws SQLException {
   // TODO Auto-generated method stub
       String request= "select * from client where id_client =?";
       this.preparedStatement = this.cnx.prepareStatement(request);
       this.preparedStatement.setInt(1, id);
       this.resultSet = this.preparedStatement.executeQuery();
       while (this.resultSet.next()) {
```

```
Client cli = new Client( this.resultSet.getInt(1),
this.resultSet.getString(2), this.resultSet.getString(3),
this.resultSet.getString(4), this.resultSet.getString(5));

cli.setLsitcmds(commandeTransaction.getByClient(cli));

return cli;

}

return null;
}
```

- 2^e classe c'est le classe Product :

```
package ma.fstt.model;

public class Product {

    private int id;
    private String name;
    private float price;
    private String addDate;
    private final byte[] image;
    private Categorie categorie;

public Product(int id, String name, float price, String addDate,
byte[] image)
    {
        this.id = id;
        this.name = name;
        this.price = price;
        this.addDate = addDate;
        this.image = image;
    }
}
```

```
public int getId()
  return id;
public String getName()
public float getPrice()
  return price;
public String getAddDate()
  return addDate;
public byte[] getImage()
  return image;
public void setId(int id) {
  this.id = id;
public void setName(String name) {
  this.name = name;
public void setPrice(float price) {
  this.price = price;
```

```
public void setAddDate(String addDate) {
    this.addDate = addDate;
}

public void setCategorie(Categorie categorie) {
    this.categorie = categorie;
}
```

- et son classe de transaction

```
package ma.fstt.model;
import java.sql.SQLException;
import java.util.List;
public class ProductTransaction extends BaseTranscation<Product> {
  public ProductTransaction() throws Exception{
    super();
  @Override
  public void save(Product object) throws SQLException {
  @Override
  public void update(Product object) throws SQLException {
  @Override
  public void delete(Product object) throws SQLException {
```

```
@Override
public List<Product> getAll() throws SQLException {
    return null;
}

@Override
public Product getOne(Integer id) throws SQLException {
    return null;
}
```

- 3e c'est la classe commande

```
package ma.fstt.model;

public class Commande {

    private Integer id_commande;
    private String date;
    private int qtePrd;

    // Many to one
    private Client client;
    private Product product;

public Client getClient() {
    return client;
    }

public void setClient(Client client) {
    this.client = client;
    }
```

```
public Commande() {
   super();
   // TODO Auto-generated constructor stub
 public Commande(Integer id_commande, String date, int qtePrd, int
cl, int pr) {
   super();
   this.id commande = id commande;
   this.date = date:
   this.client.setId client(cl);
   this.product.setId(pr);
   this.qtePrd = qtePrd;
 public Integer getId_commande() {
   return id commande;
 public void setId_commande(Integer id_commande) {
   this.id commande = id commande;
 public String getDate() {
   return date:
 public void setDate(String date) {
   this.date = date:
 public int getQtePrd() {
   return qtePrd;
 public void setQtePrd(int qtePrd) {
   this.qtePrd = qtePrd;
 public Product getProduct() {
   return product;
```

et son classe de transaction

```
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;

public class CommandeTransaction extends BaseTranscation<Commande>
{
    public CommandeTransaction() throws SQLException {
        super();
        // TODO Auto-generated constructor stub
    }

    @Override
    public void save(Commande object) throws SQLException {
        String request = "INSERT INTO commande( numero, date , id_client )
```

```
VALUES (?,?,?)";
   this.preparedStatement = this.cnx.prepareStatement(request);
   // mapping objet relation
   this.preparedStatement.setString(2, object.getDate());
   this.preparedStatement.setInt(3, object.getClient().getId_client());
   this.preparedStatement.execute();
  @Override
 public void update(Commande object) throws SQLException {
   // TODO Auto-generated method stub
  @Override
 public void delete(Commande object) throws SQLException {
   // TODO Auto-generated method stub
  @Override
 public List<Commande> getAll() throws SQLException {
   // TODO Auto-generated method stub
List<Commande> liste = new ArrayList<Commande>();
   String request = "select * from commande ";
   this.statement = this.cnx.createStatement();
    this.resultSet = this.statement.executeQuery(request);
```

```
while ( this.resultSet.next()) {
      liste.add(new Commande(resultSet.getInt("id_commande"),
resultSet.getString("date"), resultSet.getInt("qte"),
resultSet.getInt("id_client"), resultSet.getInt("id_prod")));
   return liste:
  @Override
 public Commande getOne(Integer id) throws SQLException {
   // TODO Auto-generated method stub
   String request = "select * from commande where id_commande=?";
   this.preparedStatement = this.cnx.prepareStatement(request);
   this.preparedStatement.setInt(1, id);
    this.resultSet = this.preparedStatement.executeQuery();
    while ( this.resultSet.next()) {
     new Commande(resultSet.getInt("id_commande"),
resultSet.getString("date"), resultSet.getInt("qte"),
resultSet.getInt("id_client"), resultSet.getInt("id_prod"));
   return null;
 public List<Commande> getByClient(Client client) throws SQLException
```

```
// TODO Auto-generated method stub
     List<Commande> liste = new ArrayList<Commande>();
   String request = "select * from commande where id_client = ? ";
   this.preparedStatement = this.cnx.prepareStatement(request);
   this.preparedStatement.setInt(1, client.getId_client());
   this.resultSet = this.preparedStatement.executeQuery();
    while ( this.resultSet.next()) {
      liste.add(new Commande(resultSet.getInt("id_commande"),
resultSet.getString("date"), resultSet.getInt("qte"),
resultSet.getInt("id_client"), resultSet.getInt("id_prod")));
   return liste;
```

Partie 3 : Configurer et vérifier l'accès client sans fil

- cette partie s'interesse à l'interface graphique càd, on va crée pour chacun de classe qu'on a crée une classe qui développe l'interface graphique
- la 1^{er} c'est la classe Client :

```
package ma.fstt.ihm;
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.table.AbstractTableModel;
import ma.fstt.model.ClientTransaction;
import javax.swing.JButton;
import javax.swing.JTextField;
import javax.swing.JLabel;
import java.awt.event.ActionListener;
import java.sql.SQLException;
import java.awt.event.ActionEvent;
import javax.swing.JTable;
import java.awt.*;
import javax.swing.*;
import com.toedter.calendar.JDateChooser;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.KeyEvent;
```

```
import java.awt.event.KeyListener;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Date;
import javax.swing.filechooser.FileNameExtensionFilter;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableRowSorter;
public class Client extends JFrame implements DBInfo,
ActionListener {
 JPanel panel:
 JLabel idLabel:
 JLabel nameLabel:
 JLabel emailLabel:
 JLabel genreLabel;
 JLabel dateLabel:
 JLabel searchLabel;
 JTextField idField:
 JTextField nameField:
 JTextField emailField:
 JTextField genreField:
 JTextField searchField:
  JDateChooser dateField:
```

```
JButton updateImageButton;
 JButton insertButton;
 JButton updateButton;
 JButton deleteButton:
 JButton exitButton:
 JButton backButton:
 JTable table:
 JScrollPane tableScroller:
 DefaultTableModel model:
 String currentImagePath = null;
 AddNewProductDialog addProductDialog;
 public Client() {
   this.createAndShowGUI();
 public static void main(String[] args) {
   SwingUtilities.invokeLater(new Runnable() {
     public void run() {
       new Client();
 private void createAndShowGUI() {
     UIManager.LookAndFeelInfo[] var1 =
UIManager.getInstalledLookAndFeels();
     int var2 = var1.length;
     for(int var3 = 0; var3 < var2; ++var3) {
       UIManager.LookAndFeelInfo info = var1[var3];
       if ("Nimbus".equals(info.getName())) {
        UIManager.setLookAndFeel(info.getClassName());
        break;
   } catch (IllegalAccessException | InstantiationException |
UnsupportedLookAndFeelException | ClassNotFoundException var6)
```

```
this.panel = new JPanel((LayoutManager)null);
   this.model = new DefaultTableModel();
   this.table = new JTable(this.model);
   this.tableScroller = new JScrollPane(this.table);
   this.idLabel = new JLabel("ID");
   this.nameLabel = new JLabel("Name");
   this.emailLabel = new JLabel("Email");
   this.genreLabel = new JLabel("Genre");
   this.dateLabel = new JLabel("Date");
   this.searchLabel = new JLabel();
   this.idField = new JTextField();
   this.nameField = new JTextField();
   this.emailField = new JTextField();
   this.genreField = new JTextField();
   this.dateField = new JDateChooser();
   this.searchField = new JTextField():
   this.insertButton = new JButton("Add New", new
ImageIcon(this.getClass().getResource("/images/insert.png")));
   this.updateButton = new JButton("Update", new
ImageIcon(this.getClass().getResource("/images/update.png")));
   this.deleteButton = new JButton("Delete", new
ImageIcon(this.getClass().getResource("/images/delete.png")));
   this.searchLabel = new JLabel("Search");
   this.backButton = new JButton("Back", new
ImageIcon(this.getClass().getResource("/images/previous.png")));
   this.exitButton = new JButton("Exit", new
ImageIcon(this.getClass().getResource("/images/exit.png")));
   this.addProductDialog = new AddNewProductDialog(this,
this.model):
   this.idLabel.setBounds(20, 200, 50, 40);
   this.idField.setBounds(80, 200, 270, 40);
   this.nameLabel.setBounds(20, 300, 50, 40);
   this.nameField.setBounds(80, 300, 270, 40);
   this.emailLabel.setBounds(20, 400, 50, 40);
   this.emailField.setBounds(80, 400, 270, 40);
   this.genreLabel.setBounds(20, 500, 50, 40);
   this.genreField.setBounds(80, 500, 270, 40);
```

```
this.updateButton.setBounds(220, 575, 130, 40);
    this.tableScroller.setBounds(377, 40, 520, 505);
    this.searchField.setBounds(530, 577, 255, 36);
    this.searchLabel.setBounds(460, 575, 115, 40);
    this.insertButton.setBounds(920, 40, 130, 60);
    this.backButton.setBounds(920, 350, 130, 40);
    this.exitButton.setBounds(920, 575, 130, 40);
    this.idLabel.setFont(new Font("Arial", 1, 16));
    this.idField.setFont(new Font("Arial", 1, 15));
   this.nameLabel.setFont(new Font("Arial", 1, 16));
   this.nameField.setFont(new Font("Arial", 1, 15));
    this.emailLabel.setFont(new Font("Arial", 1, 16));
    this.emailField.setFont(new Font("Arial", 1, 15));
    this.genreLabel.setFont(new Font("Arial", 1, 16));
    this.genreField.setFont(new Font("Arial", 1, 15));
    this.dateLabel.setFont(new Font("Arial", 1, 16));
    this.dateField.setFont(new Font("Arial", 1, 13));
    this.deleteButton.setFont(new Font("Arial", 1, 16));
   this.updateButton.setFont(new Font("Arial", 1, 16));
    this.insertButton.setFont(new Font("Arial", 1, 16));
   this.searchField.setFont(new Font("Arial", 1, 15));
   this.searchLabel.setFont(new Font("Arial", 1, 17));
   this.backButton.setFont(new Font("Arial", 1, 16));
   this.exitButton.setFont(new Font("Arial", 1, 16));
this.idField.setBorder(BorderFactory.createLineBorder(Color.gray, 2,
true));
this.nameField.setBorder(BorderFactory.createLineBorder(Color.gray
, 2, true));
this.emailField.setBorder(BorderFactory.createLineBorder(Color.gray
, 2, true));
this.genreField.setBorder(BorderFactory.createLineBorder(Color.gray
<u>, 2, true));</u>
this.searchField.setBorder(BorderFactory.createLineBorder(Color.gra
y, 2, true));
```

this.deleteButton.setBounds(80, 575, 130, 40);

```
this.idField.setEditable(false);
this.idField.setBackground(new Color(240, 240, 240));
this.table.setColumnSelectionAllowed(false);
this.table.getParent().setBackground(Color.white);
this.tableScroller.setViewportView(this.table);
this.model.addColumn("ID");
this.model.addColumn("Name");
this.model.addColumn("Email");
this.model.addColumn("Genre");
try {
 this.viewProductsInTheTable();
} catch (Exception var5) {
this.table.addMouseListener(new MouseAdapter() {
 public void mouseClicked(MouseEvent evt) {
   int index = Client.this.table.getSelectedRow();
   Client.this.showClient(index);
   Client.this.currentImagePath = null;
}):
this.table.addKeyListener(new KeyListener() {
 public void keyReleased(KeyEvent e) {
   if (e.getKeyCode() == 38 \parallel e.getKeyCode() == 40) 
     Client.this.showClient(Client.this.table.getSelectedRow());
 public void keyTyped(KeyEvent e) {
 public void keyPressed(KeyEvent e) {
this.searchField.addKeyListener(new KeyListener() {
 public void keyReleased(KeyEvent e) {
   Client.this.search():
```

```
public void keyTyped(KeyEvent e) {
 public void keyPressed(KeyEvent e) {
});
this.insertButton.addActionListener(this);
this.updateButton.addActionListener(this);
this.deleteButton.addActionListener(this);
this.backButton.addActionListener(this);
this.exitButton.addActionListener(this);
this.panel.add(this.idLabel);
this.panel.add(this.idField);
this.panel.add(this.idField);
this.panel.add(this.nameLabel);
this.panel.add(this.nameField);
this.panel.add(this.emailLabel);
this.panel.add(this.emailField);
this.panel.add(this.genreLabel);
this.panel.add(this.genreField);
this.panel.add(this.dateLabel);
this.panel.add(this.dateField);
this.panel.add(this.insertButton);
this.panel.add(this.updateButton);
this.panel.add(this.deleteButton);
this.panel.add(this.tableScroller);
this.panel.add(this.searchField);
this.panel.add(this.searchLabel);
this.panel.add(this.backButton);
this.panel.add(this.exitButton);
this.panel.setPreferredSize(new Dimension(1070, 640));
this.panel.setMinimumSize(new Dimension(1070, 640));
this.setContentPane(new JPanel(new GridBagLayout()));
this.add(this.panel);
this.setTitle("Pharmacy Products");
this.setDefaultCloseOperation(3);
this.pack();
```

```
this.setLocationRelativeTo((Component)null);
   this.setVisible(true);
 private Connection getConnection() {
   try {
     Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/gpharmacie?us
eUnicode=yes&characterEncoding=UTF-8", "root", "");
     return con:
   } catch (SQLException var3) {
     JOptionPane.showMessageDialog(this, var3.getMessage(),
"Connection Error", 0);
     return null;
 private void viewProductsInTheTable() {
   ArrayList<ma.fstt.model.Client> clients = new ArrayList<>();
   Connection con = this.getConnection();
   String query = "SELECT * FROM client";
   try {
     Statement st = con.createStatement();
     ResultSet rs = st.executeQuery(query);
     while(rs.next()) {
       ma.fstt.model.Client client = new
ma.fstt.model.Client(rs.getInt("id_client"), rs.getString("nom"),
rs.getString("email"), rs.getString("genre"), "");
       clients.add(client):
     con.close();
    } catch (SQLException var8) {
     JOptionPane.showMessageDialog(this, var8.getMessage(),
"Error", 0);
   this.model.setRowCount(0);
```

```
Object[] row = new Object[4];
   for(int i = 0; i < clients.size(); ++i) {
     row[0] = (clients.get(i)).getId_client();
     row[1] = (clients.get(i)).getNom();
     row[2] = (clients.get(i)).getEmail();
     row[3] = (clients.get(i)).getGenre();
     this.model.addRow(row);
 private boolean checkInputs() {
   if (!this.nameField.getText().equals("") &&
!this.emailField.getText().equals("") &&
!this.genreField.getText().equals("")) {
     try {
       this.emailField.getText();
       return true;
     } catch (NumberFormatException var2) {
       return false:
    } else {
     JOptionPane.showMessageDialog(this, "Product information are
not updated because one or more fields are empty", "Error", 0);
     return false:
 private void addNewProduct() {
   this.addProductDialog.show();
 private void updateClient() {
   if (this.checkInputs() && this.idField.getText() != null) {
     if (this.currentImagePath != null) {
       try {
         InputStream img = new FileInputStream(new
```

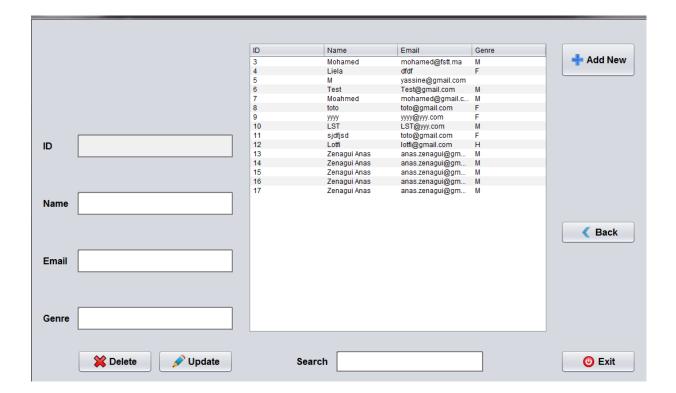
```
File(this.currentImagePath));
         String query = "UPDATE client SET nom = ?, email = ?,
genre = ? WHERE id client = ?";
         Connection con = this.getConnection();
         PreparedStatement ps = con.prepareStatement(query);
         ps.setString(1, this.nameField.getText());
         ps.setString(2, this.emailField.getText());
         ps.setString(3, this.genreField.getText());
         ps.setInt(4, Integer.parseInt(this.idField.getText()));
         ps.executeUpdate();
         con.close();
         this.viewProductsInTheTable();
         JOptionPane.showMessageDialog(this, "Product information
has been successfully updated");
       } catch (FileNotFoundException | NumberFormatException |
SQLException | HeadlessException var8) {
         JOptionPane.showMessageDialog(this, var8.getMessage(),
"Error", 0);
     } else {
       try {
         String query = "UPDATE client SET nom = ?, email = ?,
genre = ? WHERE id client = ?";
         Connection con = this.getConnection();
         PreparedStatement ps = con.prepareStatement(query);
         ps.setString(1, this.nameField.getText());
         ps.setString(2, this.emailField.getText());
         ps.setString(3, this.genreField.getText());
         ps.setInt(4, Integer.parseInt(this.idField.getText()));
         ps.executeUpdate();
         con.close():
         this.viewProductsInTheTable();
         JOptionPane.showMessageDialog(this, "Product information
are successfuly updated");
       } catch (NumberFormatException | SQLException |
HeadlessException var7) {
         JOptionPane.showMessageDialog(this, var7.getMessage(),
"Error", 0);
```

```
private ArrayList<ma.fstt.model.Client> getClientList() {
   ArrayList<ma.fstt.model.Client> clients = new ArrayList<>();
   Connection con = this.getConnection();
   String query = "SELECT * FROM client";
   try {
     Statement st = con.createStatement();
     ResultSet rs = st.executeQuery(query);
     while(rs.next()) {
       ma.fstt.model.Client client = new
ma.fstt.model.Client(rs.getInt("id_client"), rs.getString("nom"),
rs.getString("email"), rs.getString("genre"), "");
       clients.add(client);
     con.close();
    } catch (SQLException var7) {
     JOptionPane.showMessageDialog(this, var7.getMessage(),
"Error", 0);
   return clients;
 private void showClient(int index) {
this.idField.setText(Integer.toString((this.getClientList().get(index)).g
etId client());
   this.nameField.setText((this.getClientList().get(index)).getNom());
this.emailField.setText((this.getClientList().get(index)).getEmail());
this.genreField.setText((this.getClientList().get(index)).getGenre());
```

```
private void deleteClient() {
   if (this.table.getSelectedRow() == -1) {
     JOptionPane.showMessageDialog(this, "Please select the
product that you want to delete from the table and try again");
    } else {
     try {
       Connection con = this.getConnection();
       PreparedStatement ps = con.prepareStatement("DELETE
FROM client WHERE id = ?");
       int id = Integer.parseInt(this.idField.getText());
       ps.setInt(1, id);
       ps.executeUpdate();
       con.close();
       int nextSelectedRowIndex = this.table.getSelectedRow();
       this.viewProductsInTheTable();
       if (this.table.getRowCount() == 1) {
         this.table.setRowSelectionInterval(0, 0);
         this.showClient(0):
       } else if (this.table.getRowCount() > 1 &&
nextSelectedRowIndex < this.table.getRowCount()) {</pre>
         this.table.setRowSelectionInterval(nextSelectedRowIndex,
nextSelectedRowIndex):
         this.showClient(nextSelectedRowIndex);
       } else if (this.table.getRowCount() > 1 &&
nextSelectedRowIndex == this.table.getRowCount()) {
         --nextSelectedRowIndex;
         this.table.setRowSelectionInterval(nextSelectedRowIndex,
nextSelectedRowIndex);
         this.showClient(nextSelectedRowIndex);
       if (this.table.getRowCount() == 0) {
         this.idField.setText("");
         this.nameField.setText("");
         this.emailField.setText("");
         this.genreField.setText("");
      } catch (SQLException var5) {
       JOptionPane.showMessageDialog(this, var5.getMessage(),
```

```
"Error", 0);
 private void showPreviousPage() {
      if (this.table.getSelectedRow() > 0) {
        int currentSelectedRow = this.table.getSelectedRow() - 1;
        this.table.setRowSelectionInterval(currentSelectedRow,
currentSelectedRow);
        this.showProduct(currentSelectedRow);
 private void search() {
   String keyword = this.searchField.getText();
   TableRowSorter<DefaultTableModel> tr = new
TableRowSorter(this.model);
   this.table.setRowSorter(tr);
   tr.setRowFilter(RowFilter.regexFilter(keyword, new int[0]));
  public void actionPerformed(ActionEvent e) {
   if (e.getSource() == this.updateImageButton) {
    } if (e.getSource() == this.insertButton) {
     this.addNewProduct();
    } else if (e.getSource() == this.updateButton) {
     this.updateClient();
    } else if (e.getSource() == this.deleteButton) {
     this.deleteClient();
    } else if (e.getSource() == this.backButton) {
     this.showPreviousPage();
    } else if (e.getSource() == this.exitButton) {
     System.exit(0);
```

}



la 2^e c'est la classe product :

```
- package ma.fstt.ihm;

import java.awt.*;
import javax.swing.*;

import com.toedter.calendar.JDateChooser;

import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.KeyEvent;
import java.awt.event.KeyListener;
import java.awt.event.MouseAdapter;
```

```
import java.awt.event.MouseEvent;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Date;
import javax.swing.filechooser.FileNameExtensionFilter;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableRowSorter;
public class Product extends JFrame implements DBInfo,
ActionListener {
  JPanel panel;
  JLabel image:
  JLabel idLabel:
  JLabel nameLabel:
  JLabel priceLabel:
  JLabel dateLabel:
  JLabel searchLabel:
  JTextField idField:
  JTextField nameField:
  JTextField priceField;
  JTextField searchField:
  JDateChooser dateField:
  JButton updateImageButton;
  JButton insertButton:
  JButton updateButton;
  JButton deleteButton:
```

```
JButton exitButton:
  JButton backButton:
  JTable table:
  JScrollPane tableScroller:
  DefaultTableModel model:
  String currentImagePath = null;
  AddNewProductDialog addProductDialog;
  public Product() {
    this.createAndShowGUI():
  public static void main(String[] args) {
    SwingUtilities.invokeLater(new Runnable() {
       public void run() {
         new Product();
     });
  private void createAndShowGUI() {
    try {
       UIManager.LookAndFeelInfo[] var1 =
UIManager.getInstalledLookAndFeels();
       int var2 = var1.length;
       for(int var3 = 0; var3 < var2; ++var3) {
         UIManager.LookAndFeelInfo info = var1[var3];
         if ("Nimbus".equals(info.getName())) {
           UIManager.setLookAndFeel(info.getClassName());
           break:
     } catch (IllegalAccessException | InstantiationException |
UnsupportedLookAndFeelException | ClassNotFoundException var6)
    this.panel = new JPanel((LayoutManager)null);
```

```
this.model = new DefaultTableModel();
    this.table = new JTable(this.model);
    this.tableScroller = new JScrollPane(this.table);
    this.image = new JLabel();
    this.idLabel = new JLabel("ID");
    this.nameLabel = new JLabel("Name");
    this.priceLabel = new JLabel("Price");
    this.dateLabel = new JLabel("Date");
    this.searchLabel = new JLabel();
    this.idField = new JTextField();
    this.nameField = new JTextField();
    this.priceField = new JTextField();
    this.dateField = new JDateChooser();
    this.searchField = new JTextField();
    this.updateImageButton = new JButton("Update Image");
    this.insertButton = new JButton("Add New", new
ImageIcon(this.getClass().getResource("/images/insert.png")));
    this.updateButton = new JButton("Update", new
ImageIcon(this.getClass().getResource("/images/update.png")));
    this.deleteButton = new JButton("Delete", new
ImageIcon(this.getClass().getResource("/images/delete.png")));
    this.searchLabel = new JLabel("Search");
    this.backButton = new JButton("Back", new
ImageIcon(this.getClass().getResource("/images/previous.png")));
    this.exitButton = new JButton("Exit", new
ImageIcon(this.getClass().getResource("/images/exit.png")));
    this.addProductDialog = new AddNewProductDialog(this,
this.model):
    this.image.setBounds(80, 41, 270, 250);
    this.updateImageButton.setBounds(150, 300, 130, 34);
    this.idLabel.setBounds(20, 355, 50, 40);
    this.idField.setBounds(80, 355, 270, 40);
    this.nameLabel.setBounds(20, 405, 50, 40);
    this.nameField.setBounds(80, 405, 270, 40);
    this.priceLabel.setBounds(20, 455, 50, 40);
    this.priceField.setBounds(80, 455, 270, 40);
    this.dateLabel.setBounds(20, 505, 50, 40);
    this.dateField.setBounds(80, 505, 270, 40);
    this.deleteButton.setBounds(80, 575, 130, 40);
    this.updateButton.setBounds(220, 575, 130, 40);
```

```
this.tableScroller.setBounds(377, 40, 520, 505);
     this.searchField.setBounds(530, 577, 255, 36);
     this.searchLabel.setBounds(460, 575, 115, 40);
     this.insertButton.setBounds(920, 40, 130, 60);
     this.backButton.setBounds(920, 350, 130, 40);
     this.exitButton.setBounds(920, 575, 130, 40);
     this.updateImageButton.setFont(new Font("Arial", 1, 14));
     this.idLabel.setFont(new Font("Arial", 1, 16));
     this.idField.setFont(new Font("Arial", 1, 15));
     this.nameLabel.setFont(new Font("Arial", 1, 16));
     this.nameField.setFont(new Font("Arial", 1, 15));
     this.priceLabel.setFont(new Font("Arial", 1, 16));
     this.priceField.setFont(new Font("Arial", 1, 15));
     this.dateLabel.setFont(new Font("Arial", 1, 16));
     this.dateField.setFont(new Font("Arial", 1, 13));
     this.deleteButton.setFont(new Font("Arial", 1, 16));
     this.updateButton.setFont(new Font("Arial", 1, 16));
     this.insertButton.setFont(new Font("Arial", 1, 16));
     this.searchField.setFont(new Font("Arial", 1, 15));
     this.searchLabel.setFont(new Font("Arial", 1, 17));
     this.backButton.setFont(new Font("Arial", 1, 16));
     this.exitButton.setFont(new Font("Arial", 1, 16));
this.image.setBorder(BorderFactory.createLineBorder(Color.gray, 1,
true));
this.idField.setBorder(BorderFactory.createLineBorder(Color.gray, 2,
true));
this.nameField.setBorder(BorderFactory.createLineBorder(Color.gray
, 2, true));
this.priceField.setBorder(BorderFactory.createLineBorder(Color.gray,
2, true));
this.searchField.setBorder(BorderFactory.createLineBorder(Color.gra
y, 2, true));
     this.idField.setEditable(false);
    this.idField.setBackground(new Color(240, 240, 240));
     this.dateField.setDateFormatString("yyyy-MM-dd");
```

```
this.dateField.setBackground(Color.gray);
    this.dateField.getCalendarButton().setIcon(new
ImageIcon(this.getClass().getResource("/images/calendar.png")));
    this.dateField.getCalendarButton().setBackground(Color.gray);
    this.table.setColumnSelectionAllowed(false);
    this.table.getParent().setBackground(Color.white);
    this.tableScroller.setViewportView(this.table);
    this.model.addColumn("ID");
    this.model.addColumn("Name");
    this.model.addColumn("Price ($)");
    this.model.addColumn("Date Of Add");
    try {
       this.viewProductsInTheTable();
     } catch (Exception var5) {
    this.table.addMouseListener(new MouseAdapter() {
       public void mouseClicked(MouseEvent evt) {
         int index = Product.this.table.getSelectedRow();
         Product.this.showProduct(index);
         Product.this.currentImagePath = null;
    });
    this.table.addKeyListener(new KeyListener() {
       public void keyReleased(KeyEvent e) {
         if (e.getKeyCode() == 38 \parallel e.getKeyCode() == 40) {
Product.this.showProduct(Product.this.table.getSelectedRow());
       public void keyTyped(KeyEvent e) {
       public void keyPressed(KeyEvent e) {
```

```
this.searchField.addKeyListener(new KeyListener() {
  public void keyReleased(KeyEvent e) {
     Product.this.search();
  public void keyTyped(KeyEvent e) {
  public void keyPressed(KeyEvent e) {
});
this.updateImageButton.addActionListener(this);
this.insertButton.addActionListener(this);
this.updateButton.addActionListener(this);
this.deleteButton.addActionListener(this);
this.backButton.addActionListener(this);
this.exitButton.addActionListener(this);
this.panel.add(this.image);
this.panel.add(this.updateImageButton);
this.panel.add(this.idLabel);
this.panel.add(this.idField);
this.panel.add(this.idField);
this.panel.add(this.nameLabel);
this.panel.add(this.nameField);
this.panel.add(this.priceLabel);
this.panel.add(this.priceField);
this.panel.add(this.dateLabel);
this.panel.add(this.dateField);
this.panel.add(this.insertButton);
this.panel.add(this.updateButton);
this.panel.add(this.deleteButton);
this.panel.add(this.tableScroller);
this.panel.add(this.searchField);
this.panel.add(this.searchLabel);
this.panel.add(this.backButton);
this.panel.add(this.exitButton);
this.panel.setPreferredSize(new Dimension(1070, 640));
this.panel.setMinimumSize(new Dimension(1070, 640));
this.setContentPane(new JPanel(new GridBagLayout()));
this.add(this.panel);
```

```
this.setTitle("Pharmacy Products");
    this.setDefaultCloseOperation(3);
    this.pack();
    this.setLocationRelativeTo((Component)null);
    this.setVisible(true);
  private Connection getConnection() {
    try {
       Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/gpharmacie?us
eUnicode=yes&characterEncoding=UTF-8", "root", "");
       return con;
     } catch (SQLException var3) {
       JOptionPane.showMessageDialog(this, var3.getMessage(),
"Connection Error", 0);
       return null;
  private void viewProductsInTheTable() {
     ArrayList<ma.fstt.model.Product> productList = new
ArrayList<>();
    Connection con = this.getConnection();
    String query = "SELECT * FROM products";
    try {
       Statement st = con.createStatement();
       ResultSet rs = st.executeQuery(query);
       while(rs.next()) {
         ma.fstt.model.Product product = new
ma.fstt.model.Product(rs.getInt("id"), rs.getString("name"),
Float.parseFloat(rs.getString("price")), rs.getString("add_date"),
rs.getBytes("image"));
         productList.add(product);
       con.close();
     } catch (SQLException var8) {
```

```
JOptionPane.showMessageDialog(this, var8.getMessage(),
"Error", 0);
     this.model.setRowCount(0);
     Object[] row = new Object[4];
     for(int i = 0; i < productList.size(); ++i) {</pre>
       row[0] = ((ma.fstt.model.Product)productList.get(i)).getId();
       row[1] =
((ma.fstt.model.Product)productList.get(i)).getName();
       row[2] =
((ma.fstt.model.Product)productList.get(i)).getPrice();
       row[3] =
((ma.fstt.model.Product)productList.get(i)).getAddDate();
       this.model.addRow(row);
  private boolean checkInputs() {
     if (!this.nameField.getText().equals("") &&
!this.priceField.getText().equals("") && this.dateField.getDate() !=
null) {
       try {
          Float.parseFloat(this.priceField.getText());
          return true;
       } catch (NumberFormatException var2) {
          return false:
     } else {
       JOptionPane.showMessageDialog(this, "Product information
are not updated because one or more fields are empty", "Error", 0);
       return false;
  private ImageIcon resizeImage(byte[] pic) {
     ImageIcon myImage;
     if (pic == null) {
```

```
myImage = new
ImageIcon(this.getClass().getResource("/images/no-image.jpg"));
     } else {
       myImage = new ImageIcon(pic);
     Image tempImage =
myImage.getImage().getScaledInstance(this.image.getWidth(),
this.image.getHeight(), 4);
    return new ImageIcon(tempImage);
  private void updateImage() {
    JFileChooser file = new JFileChooser();
     file.setCurrentDirectory(new
File(System.getProperty("user.home")));
     FileNameExtensionFilter filter = new
FileNameExtensionFilter("Select a .JPG .PNG .GIF image", new
String[]{"jpg", "png", "gif"});
    file.setFileFilter(filter);
    int result = file.showOpenDialog(this);
     if (result == 0) {
       try {
         byte[] selectedImage =
Files.readAllBytes(file.getSelectedFile().toPath());
         this.image.setIcon(this.resizeImage(selectedImage));
         this.currentImagePath =
file.getSelectedFile().toPath().toString();
       } catch (IOException var5) {
         this.image.setIcon(this.resizeImage((byte[])null));
  private void addNewProduct() {
    this.addProductDialog.show();
  private void updateProduct() -
```

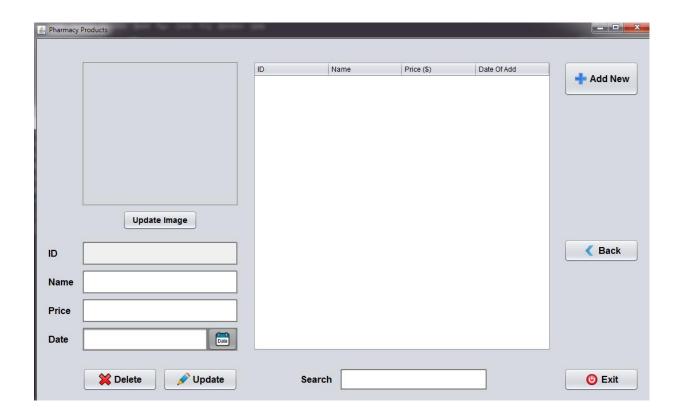
```
if (this.checkInputs() && this.idField.getText() != null) {
       if (this.currentImagePath != null) {
         try {
            InputStream img = new FileInputStream(new
File(this.currentImagePath));
            String query = "UPDATE products SET name = ?, price
= ?, add date = ?, image = ? WHERE id = ?";
            Connection con = this.getConnection();
            PreparedStatement ps = con.prepareStatement(query);
            ps.setString(1, this.nameField.getText());
            ps.setString(2, this.priceField.getText());
            SimpleDateFormat dateFormat = new
SimpleDateFormat("yyyy-MM-dd");
            String addDate =
dateFormat.format(this.dateField.getDate());
            ps.setString(3, addDate);
            ps.setBlob(4, img);
            ps.setInt(5, Integer.parseInt(this.idField.getText()));
            ps.executeUpdate();
            con.close();
            this.viewProductsInTheTable();
            JOptionPane.showMessageDialog(this, "Product
information has been successfully updated");
          \} catch (FileNotFoundException | NumberFormatException
| SQLException | HeadlessException var8) {
           JOptionPane.showMessageDialog(this,
var8.getMessage(), "Error", 0);
       } else {
           String query = "UPDATE products SET name = ?, price
= ?, add date = ? WHERE id = ?";
            Connection con = this.getConnection();
            PreparedStatement ps = con.prepareStatement(query);
            ps.setString(1, this.nameField.getText());
            ps.setString(2, this.priceField.getText());
            SimpleDateFormat dateFormat = new
SimpleDateFormat("yyyy-MM-dd");
           String addDate =
dateFormat.format(this.dateField.getDate());
```

```
ps.setString(3, addDate);
            ps.setInt(4, Integer.parseInt(this.idField.getText()));
            ps.executeUpdate();
            con.close():
            this.viewProductsInTheTable();
            JOptionPane.showMessageDialog(this, "Product
information are successfuly updated");
         } catch (NumberFormatException | SQLException |
HeadlessException var7) {
            JOptionPane.showMessageDialog(this,
var7.getMessage(), "Error", 0);
  private ArrayList<ma.fstt.model.Product> getProductList() {
    ArrayList<ma.fstt.model.Product> productList = new
ArrayList();
    Connection con = this.getConnection();
    String query = "SELECT * FROM products";
    try {
       Statement st = con.createStatement();
       ResultSet rs = st.executeQuery(query);
       while(rs.next()) {
         ma.fstt.model.Product product = new
ma.fstt.model.Product(rs.getInt("id"), rs.getString("name"),
Float.parseFloat(rs.getString("price")), rs.getString("add_date"),
rs.getBytes("image"));
         productList.add(product);
       con.close():
     } catch (SQLException var7) {
       JOptionPane.showMessageDialog(this, var7.getMessage(),
```

```
return productList;
  private void showProduct(int index) {
this.idField.setText(Integer.toString(((ma.fstt.model.Product)this.getP
roductList().get(index)).getId()));
this.nameField.setText(((ma.fstt.model.Product)this.getProductList().g
et(index)).getName());
this.priceField.setText(Float.toString(((ma.fstt.model.Product)this.get
ProductList().get(index)).getPrice()));
    try {
       Date addDate = (new SimpleDateFormat("yyyy-MM-
dd")).parse(((ma.fstt.model.Product)this.getProductList().get(index)).
getAddDate()):
       this.dateField.setDate(addDate);
     } catch (ParseException var3) {
       JOptionPane.showMessageDialog(this, var3.getMessage(),
"Error", 0);
     byte[] theImage =
((ma.fstt.model.Product)this.getProductList().get(index)).getImage();
    this.image.setIcon(this.resizeImage(theImage));
  private void deleteProduct() {
    if (this.table.getSelectedRow() == -1) {
       JOptionPane.showMessageDialog(this, "Please select the
     } else {
       try {
         Connection con = this.getConnection();
         PreparedStatement ps = con.prepareStatement("DELETE
FROM products WHERE id = ?");
         int id = Integer.parseInt(this.idField.getText());
```

```
ps.setInt(1, id);
         ps.executeUpdate();
         con.close();
         int nextSelectedRowIndex = this.table.getSelectedRow();
         this.viewProductsInTheTable();
         if (this.table.getRowCount() == 1) {
            this.table.setRowSelectionInterval(0, 0);
            this.showProduct(0):
          } else if (this.table.getRowCount() > 1 &&
nextSelectedRowIndex < this.table.getRowCount()) {</pre>
this.table.setRowSelectionInterval(nextSelectedRowIndex,
nextSelectedRowIndex);
            this.showProduct(nextSelectedRowIndex);
          } else if (this.table.getRowCount() > 1 &&
nextSelectedRowIndex == this.table.getRowCount()) {
            --nextSelectedRowIndex:
this.table.setRowSelectionInterval(nextSelectedRowIndex,
nextSelectedRowIndex):
            this.showProduct(nextSelectedRowIndex);
         if (this.table.getRowCount() == 0) {
            this.image.setIcon((Icon)null);
            this.idField.setText("");
            this.nameField.setText("");
            this.priceField.setText("");
            this.dateField.setDate((Date)null);
       } catch (SQLException var5) {
         JOptionPane.showMessageDialog(this, var5.getMessage(),
  private void showPreviousPage() {
```

```
if (this.table.getSelectedRow() > 0) {
        int currentSelectedRow = this.table.getSelectedRow() - 1;
        this.table.setRowSelectionInterval(currentSelectedRow,
currentSelectedRow):
        this.showProduct(currentSelectedRow);
  private void search() {
    String keyword = this.searchField.getText();
    TableRowSorter<DefaultTableModel> tr = new
TableRowSorter(this.model);
    this.table.setRowSorter(tr);
    tr.setRowFilter(RowFilter.regexFilter(keyword, new int[0]));
  public void actionPerformed(ActionEvent e) {
    if (e.getSource() == this.updateImageButton) {
       this.updateImage();
     } else if (e.getSource() == this.insertButton) {
       this.addNewProduct();
     } else if (e.getSource() == this.updateButton) {
       this.updateProduct();
     } else if (e.getSource() == this.deleteButton) {
       this.deleteProduct();
     } else if (e.getSource() == this.backButton) {
       this.showPreviousPage();
     } else if (e.getSource() == this.exitButton) {
       System.exit(0);
```



- et la 3^e c'est la classe Commande

```
package ma.fstt.ihm;
import java.awt.*;
import javax.swing.*;
```

```
import com.toedter.calendar.JDateChooser;
import ma.fstt.model.Client;
import ma.fstt.model.Product;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.KeyEvent;
import java.awt.event.KeyListener;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent:
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Date;
import javax.swing.filechooser.FileNameExtensionFilter;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableRowSorter;
public class Commande extends JFrame implements DBInfo,
ActionListener {
  JPanel panel:
  JLabel image;
  JLabel idLabel:
  JLabel dateLabel:
  JLabel qtePrdLabel;
  JLabel clientLabel:
  JLabel productLabel;
  JLabel searchLabel:
```

```
JTextField idField:
  JTextField dateField:
  JTextField qtePrdField;
  JTextField clientField;
  JTextField productField;
  JTextField searchField;
  JDateChooser date Field:
  JButton updateImageButton;
  JButton insertButton:
  JButton updateButton;
  JButton deleteButton:
  JButton exitButton:
  JButton backButton:
  JTable table:
  JScrollPane tableScroller:
  DefaultTableModel model:
  String currentImagePath = null;
  AddNewProductDialog addProductDialog;
  public Commande() {
    this.createAndShowGUI();
  public static void main(String[] args) {
    SwingUtilities.invokeLater(new Runnable() {
       public void run() {
         new Commande();
    });
  private void createAndShowGUI() {
    try {
       UIManager.LookAndFeelInfo[] var1 =
UIManager.getInstalledLookAndFeels();
      int var2 = var1.length;
       for(int var3 = 0; var3 < var2; ++var3) {
         UIManager.LookAndFeelInfo info = var1[var3];
         if ("Nimbus".equals(info.getName())) {
```

```
UIManager.setLookAndFeel(info.getClassName());
            break:
     } catch (IllegalAccessException | InstantiationException |
UnsupportedLookAndFeelException | ClassNotFoundException var6) {
     this.panel = new JPanel((LayoutManager)null);
     this.model = new DefaultTableModel();
    this.table = new JTable(this.model);
    this.tableScroller = new JScrollPane(this.table);
    this.image = new JLabel();
    this.idLabel = new JLabel("ID");
    this.productLabel = new JLabel("Product Name");
    this.clientLabel = new JLabel("Client Name");
    this.gtePrdLabel = new JLabel("QTE");
    this.dateLabel = new JLabel("Date");
    this.searchLabel = new JLabel();
    this.idField = new JTextField();
    this.productField = new JTextField():
    this.clientField = new JTextField();
    this.qtePrdField = new JTextField();
    this.date Field = new JDateChooser();
    this.searchField = new JTextField();
    this.updateImageButton = new JButton("Update Image");
    this.insertButton = new JButton("Add New", new
ImageIcon(this.getClass().getResource("/images/insert.png")));
    this.updateButton = new JButton("Update", new
ImageIcon(this.getClass().getResource("/images/update.png")));
    this.deleteButton = new JButton("Delete", new
ImageIcon(this.getClass().getResource("/images/delete.png")));
    this.searchLabel = new JLabel("Search");
    this.backButton = new JButton("Back", new
ImageIcon(this.getClass().getResource("/images/previous.png")));
    this.exitButton = new JButton("Exit", new
ImageIcon(this.getClass().getResource("/images/exit.png")));
      this.addProductDialog = new AddNewProductDialog(this,
this.model):
```

```
this.image.setBounds(80, 41, 270, 250);
    this.updateImageButton.setBounds(150, 300, 130, 34);
    this.idLabel.setBounds(20, 355, 50, 40);
    this.idField.setBounds(80, 355, 270, 40);
    this.productLabel.setBounds(20, 405, 50, 40);
    this.productField.setBounds(80, 405, 270, 40);
    this.clientLabel.setBounds(20, 455, 50, 40);
    this.clientField.setBounds(80, 455, 270, 40);
    this.qtePrdLabel.setBounds(20, 455, 50, 40);
    this.gtePrdField.setBounds(80, 455, 270, 40);
    this.dateLabel.setBounds(20, 505, 50, 40);
    this.deleteButton.setBounds(80, 575, 130, 40);
    this.updateButton.setBounds(220, 575, 130, 40);
    this.tableScroller.setBounds(377, 40, 520, 505);
    this.searchField.setBounds(530, 577, 255, 36);
    this.searchLabel.setBounds(460, 575, 115, 40);
    this.insertButton.setBounds(920, 40, 130, 60);
    this.backButton.setBounds(920, 350, 130, 40);
    this.exitButton.setBounds(920, 575, 130, 40);
    this.updateImageButton.setFont(new Font("Arial", 1, 14));
    this.idLabel.setFont(new Font("Arial", 1, 16));
    this.idField.setFont(new Font("Arial", 1, 15));
    this.productLabel.setFont(new Font("Arial", 1, 16));
    this.productField.setFont(new Font("Arial", 1, 15));
    this.clientLabel.setFont(new Font("Arial", 1, 16));
    this.clientField.setFont(new Font("Arial", 1, 15));
    this.qtePrdLabel.setFont(new Font("Arial", 1, 16));
    this.gtePrdField.setFont(new Font("Arial", 1, 15));
    this.dateLabel.setFont(new Font("Arial", 1, 16));
    this.deleteButton.setFont(new Font("Arial", 1, 16));
    this.updateButton.setFont(new Font("Arial", 1, 16));
    this.insertButton.setFont(new Font("Arial", 1, 16));
    this.searchField.setFont(new Font("Arial", 1, 15));
    this.searchLabel.setFont(new Font("Arial", 1, 17));
    this.backButton.setFont(new Font("Arial", 1, 16));
    this.exitButton.setFont(new Font("Arial", 1, 16));
    this.image.setBorder(BorderFactory.createLineBorder(Color.gray, 1,
true));
    this.idField.setBorder(BorderFactory.createLineBorder(Color.gray, 2,
true));
```

```
this.productField.setBorder(BorderFactory.createLineBorder(Color.gray, 2,
true));
    this.clientField.setBorder(BorderFactory.createLineBorder(Color.gray,
2, true));
this.qtePrdField.setBorder(BorderFactory.createLineBorder(Color.gray, 2,
true));
this.searchField.setBorder(BorderFactory.createLineBorder(Color.gray, 2,
true));
    this.idField.setEditable(false);
    this.idField.setBackground(new Color(240, 240, 240));
    this.table.setColumnSelectionAllowed(false);
    this.table.getParent().setBackground(Color.white);
    this.tableScroller.setViewportView(this.table);
    this.model.addColumn("ID");
    this.model.addColumn("Name");
    this.model.addColumn("Price ($)");
    this.model.addColumn("Date Of Add");
    try {
       this.viewCommandesInTheTable();
     } catch (Exception var5) {
    this.table.addMouseListener(new MouseAdapter() {
       public void mouseClicked(MouseEvent evt) {
         int index = Commande.this.table.getSelectedRow();
         Commande.this.currentImagePath = null;
     });
    this.table.addKeyListener(new KeyListener() {
       public void keyReleased(KeyEvent e) {
         if (e.getKeyCode() == 38 \parallel e.getKeyCode() == 40) {
```

```
public void keyTyped(KeyEvent e) {
  public void keyPressed(KeyEvent e) {
});
this.searchField.addKeyListener(new KeyListener() {
  public void keyReleased(KeyEvent e) {
     Commande.this.search();
  public void keyTyped(KeyEvent e) {
  public void keyPressed(KeyEvent e) {
this.updateImageButton.addActionListener(this);
this.insertButton.addActionListener(this);
this.updateButton.addActionListener(this);
this.deleteButton.addActionListener(this);
this.backButton.addActionListener(this);
this.exitButton.addActionListener(this);
this.panel.add(this.image);
this.panel.add(this.updateImageButton);
this.panel.add(this.idLabel);
this.panel.add(this.idField);
this.panel.add(this.productLabel);
this.panel.add(this.productField);
this.panel.add(this.clientLabel);
this.panel.add(this.clientField);
this.panel.add(this.qtePrdLabel);
this.panel.add(this.qtePrdField);
this.panel.add(this.insertButton);
this.panel.add(this.updateButton);
this.panel.add(this.deleteButton);
this.panel.add(this.tableScroller);
this.panel.add(this.searchField);
this.panel.add(this.searchLabel);
this.panel.add(this.backButton);
```

```
this.panel.add(this.exitButton);
    this.panel.setPreferredSize(new Dimension(1070, 640));
    this.panel.setMinimumSize(new Dimension(1070, 640));
    this.setContentPane(new JPanel(new GridBagLayout()));
    this.add(this.panel);
    this.setTitle("Pharmacy Orders");
    this.setDefaultCloseOperation(3);
    this.pack();
    this.setLocationRelativeTo((Component)null);
    this.setVisible(true);
  private Connection getConnection() {
    try {
       Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/gpharmacie?useUnic
ode=yes&characterEncoding=UTF-8", "root", "");
       return con:
    } catch (SQLException var3) {
      JOptionPane.showMessageDialog(this, var3.getMessage(),
Connection Error", 0):
      return null;
  private void viewCommandesInTheTable() {
    ArrayList<ma.fstt.model.Commande> cmdList = new ArrayList<>();
    Connection con = this.getConnection();
    String query = "SELECT * FROM commande";
    try {
       Statement st = con.createStatement();
       ResultSet rs = st.executeQuery(query);
       while(rs.next()) {
         ma.fstt.model.Commande cmd = new
ma.fstt.model.Commande(rs.getInt("id_commande"), rs.getString("date"),
rs.getInt("qte"), rs.getInt("id_client"), rs.getInt("id_prod"));
         cmdList.add(cmd);
```

```
con.close():
     } catch (SQLException var8) {
       JOptionPane.showMessageDialog(this, var8.getMessage(), "Error",
0);
    this.model.setRowCount(0);
    Object[] row = new Object[5];
    for(int i = 0; i < cmdList.size(); ++i) {
       row[0] =
((ma.fstt.model.Commande)cmdList.get(i)).getId_commande();
       row[1] = ((ma.fstt.model.Commande)cmdList.get(i)).getDate();
       row[2] = ((ma.fstt.model.Commande)cmdList.get(i)).getQtePrd();
       row[3] = ((ma.fstt.model.Commande)cmdList.get(i)).getProduct();
       row[4] = ((ma.fstt.model.Commande)cmdList.get(i)).getClient();
       this.model.addRow(row);
  private boolean checkInputs() {
    if (!this.clientField.getText().equals("") &&
!this.productField.getText().equals("") && this.dateField.getText() != null)
       try {
         Integer.parseInt(this.qtePrdField.getText());
         return true;
       } catch (NumberFormatException var2) {
         return false:
     } else {
       JOptionPane.showMessageDialog(this, "Commande information are
not updated because one or more fields are empty", "Error", 0);
       return false:
  private ImageIcon resizeImage(byte[] pic) {
```

```
ImageIcon myImage;
    if (pic == null) {
       myImage = new
ImageIcon(this.getClass().getResource("/images/no-image.jpg"));
     } else {
       myImage = new ImageIcon(pic);
    Image tempImage =
myImage.getImage().getScaledInstance(this.image.getWidth(),
this.image.getHeight(), 4);
    return new ImageIcon(tempImage);
  private void addNewProduct() {
    this.addProductDialog.show();
  private void updateProduct() {
    if (this.checkInputs() && this.idField.getText() != null) {
       if (this.currentImagePath != null) {
         try {
            InputStream img = new FileInputStream(new
File(this.currentImagePath));
            String query = "UPDATE commande SET qte = ?, date = ?,
id_client = ?, id_prod = ? WHERE id = ?";
            Connection con = this.getConnection();
            PreparedStatement ps = con.prepareStatement(query);
            ps.setString(1, this.qtePrdField.getText());
             ps.setString(2, this.dateField.getText());
            ps.setString(3, this.clientField.getText());
            ps.setString(4, this.productField.getText());
            SimpleDateFormat dateFormat = new
SimpleDateFormat("yyyy-MM-dd");
            String addDate = dateFormat.format(this.dateField.getText());
            ps.setString(2, addDate);
            ps.executeUpdate();
            con.close();
            this.viewCommandesInTheTable():
```

```
JOptionPane.showMessageDialog(this, "Commande
information has been successfully updated");
         } catch (FileNotFoundException | NumberFormatException |
SQLException | HeadlessException var8) {
           JOptionPane.showMessageDialog(this, var8.getMessage(),
'Error'', 0);
       } else {
         try {
           String query = "UPDATE commande SET qte = ?, date = ?,
id_client = ?, id_prod = ? WHERE id = ?";
           Connection con = this.getConnection();
           PreparedStatement ps = con.prepareStatement(query);
           ps.setString(1, this.qtePrdField.getText());
             ps.setString(2, this.dateField.getText());
           ps.setString(3, this.clientField.getText());
           ps.setString(4, this.productField.getText());
           SimpleDateFormat dateFormat = new
SimpleDateFormat("yyyy-MM-dd");
           String addDate = dateFormat.format(this.dateField.getText());
           ps.setString(2, addDate);
           ps.executeUpdate();
           con.close():
           this.viewCommandesInTheTable();
           JOptionPane.showMessageDialog(this, "Commande
information are successfuly updated");
         } catch (NumberFormatException | SQLException |
HeadlessException var7) {
           JOptionPane.showMessageDialog(this, var7.getMessage(),
'Error", 0);
  private ArrayList<ma.fstt.model.Commande> getCommandeList() {
    ArrayList<ma.fstt.model.Commande> cmdList = new ArrayList();
    Connection con = this.getConnection();
    String query = "SELECT * FROM commande";
```

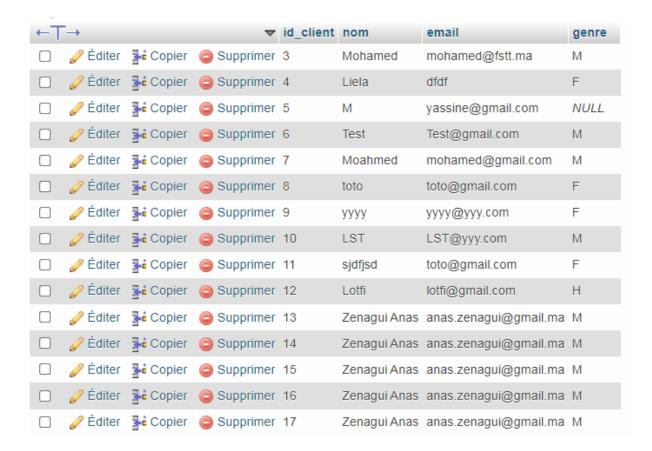
```
try {
       Statement st = con.createStatement();
       ResultSet rs = st.executeQuery(query);
       while(rs.next()) {
         ma.fstt.model.Commande cmd = new
ma.fstt.model.Commande(rs.getInt("id_commande"), rs.getString("date"),
rs.getInt("qte"), rs.getInt("id_client"), rs.getInt("id_prod"));
         cmdList.add(cmd);
       con.close();
     } catch (SQLException var7) {
       JOptionPane.showMessageDialog(this, var7.getMessage(), "Error",
0);
    return cmdList:
  private void deleteProduct() {
    if (this.table.getSelectedRow() == -1) {
       JOptionPane.showMessageDialog(this, "Please select the
Commande that you want to delete from the table and try again");
     } else {
       try {
         Connection con = this.getConnection();
         PreparedStatement ps = con.prepareStatement("DELETE FROM
commande WHERE id = ?");
         int id = Integer.parseInt(this.idField.getText());
         ps.setInt(1, id);
         ps.executeUpdate();
         con.close();
         int nextSelectedRowIndex = this.table.getSelectedRow();
         this.viewCommandesInTheTable();
         if (this.table.getRowCount() == 1) {
            this.table.setRowSelectionInterval(0, 0);
          } else if (this.table.getRowCount() > 1 &&
```

```
nextSelectedRowIndex < this.table.getRowCount()) {
            this.table.setRowSelectionInterval(nextSelectedRowIndex,
nextSelectedRowIndex):
          } else if (this.table.getRowCount() > 1 &&
nextSelectedRowIndex == this.table.getRowCount()) {
            --nextSelectedRowIndex:
            this.table.setRowSelectionInterval(nextSelectedRowIndex.
nextSelectedRowIndex);
       } catch (SQLException var5) {
         JOptionPane.showMessageDialog(this, var5.getMessage(),
'Error", 0);
  private void showPreviousPage() {
      if (this.table.getSelectedRow() > 0) {
        int currentSelectedRow = this.table.getSelectedRow() - 1;
        this.table.setRowSelectionInterval(currentSelectedRow,
currentSelectedRow):
        this.showProduct(currentSelectedRow);
  private void search() {
    String keyword = this.searchField.getText();
    TableRowSorter<DefaultTableModel> tr = new
TableRowSorter(this.model):
    this.table.setRowSorter(tr);
    tr.setRowFilter(RowFilter.regexFilter(keyword, new int[0]));
  public void actionPerformed(ActionEvent e) {
    if (e.getSource() == this.insertButton) {
       this.addNewProduct():
```

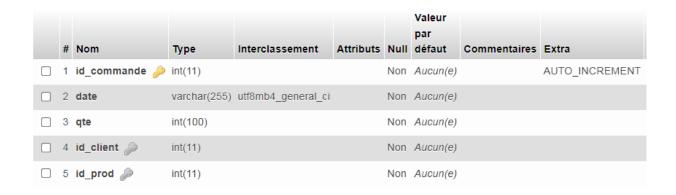
```
} else if (e.getSource() == this.updateButton) {
    this.updateProduct();
} else if (e.getSource() == this.deleteButton) {
    this.deleteProduct();
} else if (e.getSource() == this.backButton) {
    this.showPreviousPage();
} else if (e.getSource() == this.exitButton) {
    System.exit(0);
}
```

Partie 4 : Créations des BDs :

Pour la classe Client:



Pour la classe Commande:



- Pour la classe Product:

+ Options

