Mini Projet Java

Gestion Pharmacie

Meriem Jribi « CPI2 C»

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2 Introduction

Je vous présente mon projet de Système de Gestion de Pharmacie en Java, développé dans le cadre du module de Programmation Orientée Objet. Cette application offre une solution complète pour la gestion des clients, des ordonnances et des médicaments, en utilisant les technologies Swing, JDBC et MySQL.

3 Conception

Diagramme de cas d'utilisation :

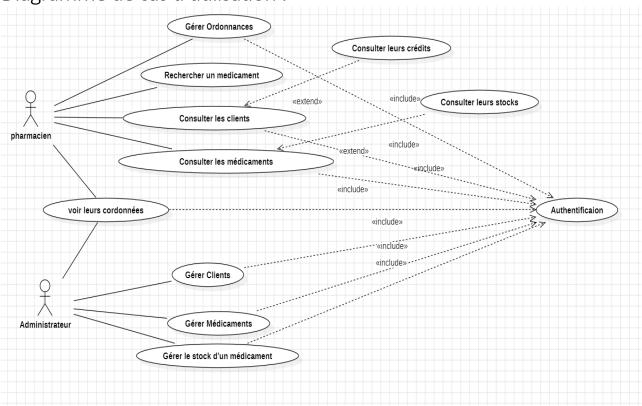
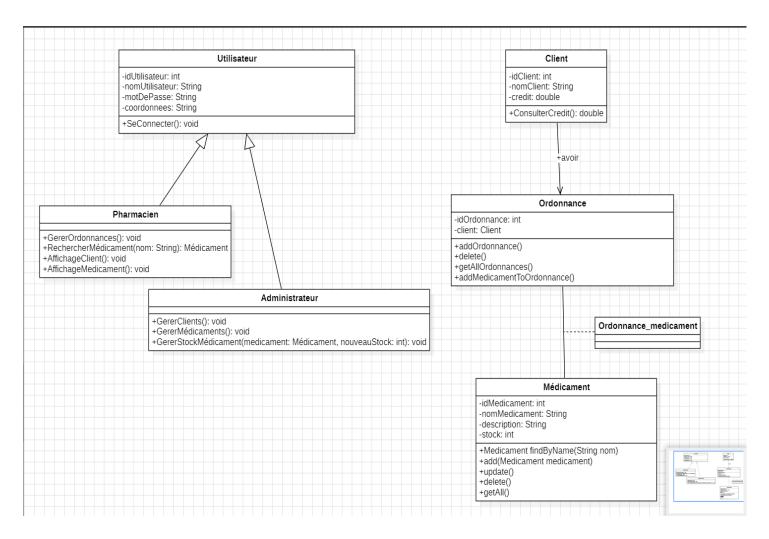


Diagramme de classe :



4 Base de données

4.1 Code SQL

```
CREATE TABLE IF NOT EXISTS 'gestionpharmacie'.'utilisateur' (
'idutilisateur' INT NOT NULL,
'nomUtilisateur' VARCHAR(45) NULL DEFAULT NULL,
'motdepasse' VARCHAR(45) NULL DEFAULT NULL,
'mail' VARCHAR(45) NULL DEFAULT NULL,
'adresse' VARCHAR(45) NULL DEFAULT NULL,
'telephone' VARCHAR(45) NULL DEFAULT NULL,
'role' VARCHAR(45) NULL DEFAULT NULL,
'PRIMARY KEY ('idutilisateur'))
```

```
CREATE TABLE IF NOT EXISTS `gestionpharmacie`.`administrateur` (
    `idadministrateur` INT NOT NULL,
    `AnnéEmbauche` INT NULL DEFAULT NULL,
    PRIMARY KEY (`idadministrateur`),
    CONSTRAINT `idadministrateur`
    FOREIGN KEY (`idadministrateur`)
    REFERENCES `gestionpharmacie`.`utilisateur` (`idutilisateur`))
```

```
    CREATE TABLE IF NOT EXISTS 'gestionpharmacie'.'client' (

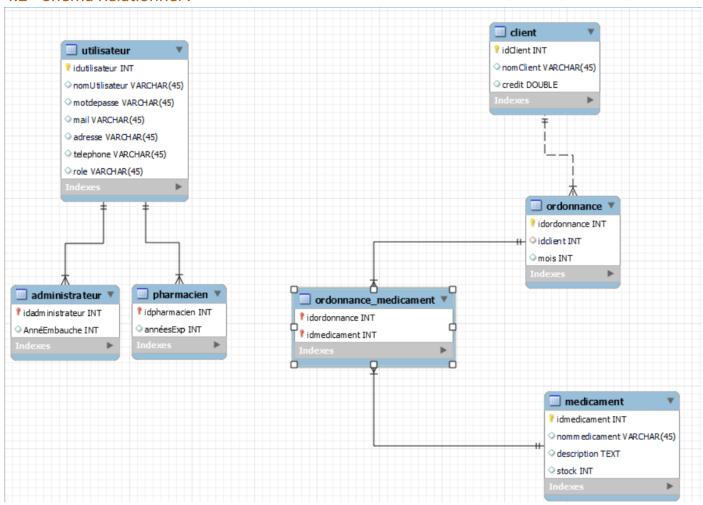
    'idClient' INT NOT NULL,
    'nomClient' VARCHAR(45) NULL DEFAULT NULL,
    'credit' DOUBLE NULL DEFAULT NULL,
    PRIMARY KEY ('idClient'),
   UNIQUE INDEX 'idClient_UNIQUE' ('idClient' ASC) VISIBLE)

    CREATE TABLE IF NOT EXISTS `gestionpharmacie`.`medicament` (

    'idmedicament' INT NOT NULL,
    `nommedicament` VARCHAR(45) NULL DEFAULT NULL,
    'description' TEXT NULL DEFAULT NULL,
    'stock' INT NULL DEFAULT NULL,
    PRIMARY KEY ('idmedicament'))
○ CREATE TABLE IF NOT EXISTS `gestionpharmacie`.`ordonnance` (
    'idordonnance' INT NOT NULL,
    'idclient' INT NULL DEFAULT NULL,
    'mois' INT NULL DEFAULT NULL,
    PRIMARY KEY ('idordonnance'),
    INDEX 'idclient_idx' ('idclient' ASC) VISIBLE,
    CONSTRAINT 'idclient'
     FOREIGN KEY ('idclient')
     REFERENCES 'gestionpharmacie'.'client' ('idClient'))
 CREATE TABLE IF NOT EXISTS `gestionpharmacie`.`ordonnance_medicament` (
      'idordonnance' INT NOT NULL,
     'idmedicament' INT NOT NULL,
     PRIMARY KEY ('idordonnance', 'idmedicament'),
     INDEX 'idmedicament idx' ('idmedicament' ASC) VISIBLE,
     CONSTRAINT 'idmedicament'
      FOREIGN KEY ('idmedicament')
      REFERENCES 'gestionpharmacie'.'medicament' ('idmedicament'),
     CONSTRAINT 'idordonnance'
       FOREIGN KEY ('idordonnance')
       REFERENCES 'gestionpharmacie'.'ordonnance' ('idordonnance'))
```

```
CREATE TABLE IF NOT EXISTS `gestionpharmacie`.`pharmacien` (
    `idpharmacien` INT NOT NULL,
    `annéesExp` INT NULL DEFAULT NULL,
    PRIMARY KEY (`idpharmacien`),
    INDEX `idpharmacien_idx` (`idpharmacien` ASC) VISIBLE,
    CONSTRAINT `idpharmacien`
    FOREIGN KEY (`idpharmacien`)
    REFERENCES `gestionpharmacie`.`utilisateur` (`idutilisateur`))
```

4.2 Shéma Relationnel:



4.3 Les tables :

4.3.1 Table : Utilisateur

	idutilisateur	nomUtilisateur	motdepasse	mail	adresse	telephone	role
•	111	Meriem	motdepasse 123	meriem@gmail.com	Mahdia	11111111	administrateur
	222	Ali	mdp456	Ali@email.com	Gabes	2222222	pharmacien
	333	Asma	mdp	Asma@email.com	Sfax	33333333	administrateur
	444	Youssef	mdp123	Youssef@email.com	Tunis	44444444	pharmacien
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

4.3.2 Table :Administrateur

	idadministrateur	AnnéEmbauche
•	111	2013
	333	20
	NULL	NULL

4.3.3 Table :Pharmacien

_	1		
	idpharmacien	annéesExp	
•	222	12	
	444	8	
	NULL	NULL	

4.3.4 Table :Client

	idClient	nomClient	credit
•	121	Ahmed	1000
	122	Adem	500
	123	Takwa	100.5
	124	Safwen	1000
	125	Aziza	650
	127	Amine	1000
	128	Yassine	3000.2
	129	Fawzi	3000
	130	Khalil	100
	131	Farah	200
	132	Meryem	4345
	NULL	NULL	NULL

4.3.5 Table :Ordonnance

	idordonnance	iddient	mois
•	10	123	9
	20	121	3
	30	125	6
	40	131	10
	50	128	1
	60	127	7
	70	130	11
	90	123	8
	NULL	NULL	NULL

4.3.6 Table : Medicament

	idmedicament	nommedicament	description	stock
•	100	Paracétamol	Pour soulager la douleur et la fièvre	48
	200	Ibuprofène	Anti-inflammatoire	27
	300	Amoxicilline	Antibiotique, utilisé pour traiter diverses infecti	40
	400	Loratadine	Antihistaminique utilisé pour soulager les sympt	13
	500	Omeprazole	Inhibiteur de la pompe à protons	53
	600	Céfalexine	Antibiotique céphalosporine	59
	700	Aspirine	Analgesique, anti-inflammatoire	81
	800	Diazepam	Anxiolytique de la classe des benzodiazépines	21
	900	Atorvastatine	Inhibiteur de la HMG-CoA réductase	109
	1000	Metformine	Antidiabétique oral de la classe des biguanides	87
	NULL	NULL	NULL	NULL

4.3.7 Table : Ordonnance_Medicament

	idordonnance	idmedicament
•	20	100
	10	200
	30	400
	40	400
	30	500
	50	600
	50	700
	90	800
	60	900
	70	1000
	NULL	NULL

5 Développement

5.1 Couche Métier

5.1.1 Classe: Utilisateur

```
package Métiers;
3
  public class Utilisateur {
       private int id;
       private String nomUtilisateur;
6
      private String motDePasse;
       private String mail;
8
       private String adresse;
       private String telephone;
       private String role;
10
11
12⊝
       public Utilisateur(int id, String nomUtilisateur, String motDePasse, String mail, String adresse, String telephone,
13
                String role) {
14
           this.nomUtilisateur = nomUtilisateur;
15
           this.motDePasse = motDePasse;
16
           this.mail = mail;
17
           this.adresse = adresse;
18
           this.telephone = telephone;
19
           this.role = role;
20
           this.id = id;
21
       }
22
23
       public int getId() {
24⊝
25
           return id;
26
27⊝
       public void setId(int id) {
28
           this.id = id;
29
30⊝
       public String getNomUtilisateur() {
31
           return nomUtilisateur;
32
33⊝
       public void setNomUtilisateur(String nomUtilisateur) {
34
           this.nomUtilisateur = nomUtilisateur;
35
36⊜
       public String getMotDePasse() {
37
           return motDePasse;
38
   public String getMotDePasse() {
       return motDePasse;
   public void setMotDePasse(String motDePasse) {
       this.motDePasse = motDePasse;
   public String getMail() {
       return mail;
   public void setMail(String mail) {
       this.mail = mail;
   public String getAdresse() {
       return adresse;
   public void setAdresse(String adresse) {
       this.adresse = adresse:
   public String getTelephone() {
       return telephone;
   public void setTelephone(String telephone) {
       this.telephone = telephone;
   public String getRole() {
       return role;
   public void setRole(String role) {
       this.role = role;
   @Override
   public String toString() {
       return "Utilisateur [id=" + id + ", nomUtilisateur=" + nomUtilisateur + ", motDePasse=" + motDePasse + ", mail="
               + mail + ", adresse=" + adresse + ", telephone=" + telephone + ", role=" + role + "]";}
```

5.1.2 Classe: Administrateur

5.1.3 Classe: Pharmacien

5.1.4 Classe :Client

```
package Métiers;
public class Client {
    private int id;
    private String nom;
    private double credit;
    public Client(int id ,String nom, double credit) {
        this.id=id;
        this.nom = nom;
       this.credit = credit;
    public int getId() {
        return id;
    public void setId(int id) {
       this.id = id;
    public String getNom() {
       return nom;
    public void setNom(String nom) {
        this.nom = nom;
    public double getCredit() {
       return credit;
    public void setCredit(double credit) {
       this.credit = credit;
    @Override
    public String toString() {
    return "Client [id=" + id + ", nom=" + nom + ", credit=" + credit + "]";
```

```
5.1.5 Classe: Ordonnance
package Métiers;
import java.util.ArrayList;
public class Ordonnance {
     private int id;
     private Client client;
     private int mois;
     private List<Medicament> medicaments=new ArrayList<Medicament>();
     public Ordonnance(int id, int mois, Client c) {
         this.id = id;
         this.mois = mois;
         this.client=c;}
     public List<Medicament> getMedicaments() {
         return medicaments;
     public void setMedicaments(List<Medicament> medicaments) {
         this.medicaments = medicaments;
     public void setMois(int mois) {
         this.mois = mois;
     public int getId() {
         return id;
     public void setId(int id) {
         this.id = id;
     public int getMois() {
         return mois;
     public void setDate(int mois) {
         this.mois =mois;
  public void setDate(int mois) {
     this.mois =mois;
  public Client getClient() {
     return client;
  public void setClient(Client client) {
     this.client = client;
  public String toString() {
     return "Ordonnance [id=" + id + ", client=" + client + ", mois=" + mois + ", medicaments=" + medicaments + "]";
```

5.1.6 Classe: Medicament

```
package Métiers;
public class Medicament {
   private int id;
   private String nom;
   private String description;
   private int stock;
   public Medicament(int id,String nom, String description, int stock) {
       this.id=id;
       this.nom = nom;
       this.description = description;
       this.stock = stock;
    public int getId() {
       return id;
   public void setId(int id) {
       this.id = id;
   public String getNom() {
       return nom;
   public void setNom(String nom) {
       this.nom = nom;
   public String getDescription() {
       return description;
   public void setDescription(String description) {
       this.description = description;
   public int getStock() {
       return stock;
   public void setStock(int stock) {
       this.stock = stock;
   public String toString() {
       return "Medicament [nom=" + nom + ", description=" + description + ", stock=" + stock + ", id=" + id + "]";
```

5.2 Couche DAO:

5.2.1 SingletonConnexion

j'ai utilisé un fichier « config.properties » ou j'ai mis mes données pour se connecter à la base

```
1 jdbc.url=jdbc:mysql://localhost/gestionpharmacie?serverTimezone=Europe/Paris
2 jdbc.user=root
3 jdbc.password=1234
```

```
1 package DAO;
 20 import java.io.FileInputStream;
 3 import java.io.IOException;
 4 import java.sql.Connection;
 5 import java.sql.DriverManager;
 6 import java.sql.SQLException;
 7 import java.util.Properties;
 9 public class SingletonConnection {
10 Properties props=new Properties();
11 private static String user;
12 private static String password;
13 private static String url;
14 //Objet Connection
15 private static Connection connect;
16 //Constructeur privé
17 private SingletonConnection(){
18 try {
19
20
       props.load(new FileInputStream("config.properties"));
21
       url=props.getProperty("jdbc.url");
22
       user=props.getProperty("jdbc.user");
23
       password=props.getProperty("jdbc.password");
24
       connect = DriverManager.getConnection(url, user, password);
25
        System.out.println("connecte");
26 }
27 catch (SQLException e)
28 { e.printStackTrace();
29 }
30 catch(IOException e)
31 {
       e.printStackTrace();
32
33 }
34 }
35 //Méthode gui retourne l'instance et la créer si elle n'existe pas
36 public static Connection getInstance(){
37 if(connect == null){
38
39 new SingletonConnection();
40 }
41 return connect;
42 }
43 }
```

```
public class UtilisateurDAO {
    // Se connecter à un compte selon le role indiquer dans la table && voir les cordonnées
   public Utilisateur seConnecter(int idUtilisateur, String motdepasse) {
        Connection conn = SingletonConnection.getInstance();
        String queryAll = "SELECT * FROM utilisateur WHERE idutilisateur = ? AND motdepasse = ?";
        String queryPharmacien = "SELECT * FROM pharmacien WHERE idpharmacien = ?";
        String queryAdministrateur = "SELECT * FROM administrateur WHERE idadministrateur = ?";
        try {
           PreparedStatement ps = conn.prepareStatement(queryAll);
           ps.setInt(1, idUtilisateur);
            ps.setString(2, motdepasse);
           ResultSet rs = ps.executeQuery();
            if (rs.next()) {
                int id = rs.getInt("idutilisateur");
                String nom = rs.getString("nomUtilisateur");
                String mdp = rs.getString("motdepasse");
                String mail = rs.getString("mail");
                String adresse = rs.getString("adresse");
                String telephone = rs.getString("telephone");
                String role = rs.getString("role");
                // si il est pharmacien
                if (role.equals("pharmacien")) {
                    PreparedStatement psPharmacien = conn.prepareStatement(queryPharmacien);
                    psPharmacien.setInt(1, idUtilisateur);
                    ResultSet rsPharmacien = psPharmacien.executeQuery();
                    if (rsPharmacien.next()) {
                        int annéesExperience = rsPharmacien.getInt("annéesExp");
                        return new Pharmacien(id, nom, mdp, mail, adresse, telephone, role, annéesExperience);
                 // si administrateur
                } else if (role.equals("administrateur")) {
                    PreparedStatement psAdministrateur = conn.prepareStatement(queryAdministrateur);
                    psAdministrateur.setInt(1, idUtilisateur);
                    ResultSet rsAdministrateur = psAdministrateur.executeQuery();
                    if (rsAdministrateur.next()) {
                        int annéeEmb = rsAdministrateur.getInt("AnnéEmbauche");
                       return new Administrateur(id, nom, mdp, mail, adresse, telephone, role, annéeEmb);
                   }
               }
           }
       } catch (SQLException e) {
           e.printStackTrace();
       return null;
   ιι
```

5.2.3 Classe: ClientDAO

```
public class ClientDAO {
    //affichge des clients
    public List<Client> getAll() {
        Connection conn=SingletonConnection.getInstance();
        List<Client> clients = new ArrayList<>();
        String instrc = "select * from client";
        try (PreparedStatement ps = conn.prepareStatement(instrc);
             ResultSet rs = ps.executeQuery()) {
            while (rs.next()) {
                int id=rs.getInt("idClient");
                String nom = rs.getString("nomClient");
                double credit = rs.getDouble("credit");
                Client client = new Client(id,nom, credit);
                clients.add(client);
            }
        } catch (SQLException e) {
            e.printStackTrace();
        return clients;
    //get by id
    public Client getid(int id) {
        Connection conn = SingletonConnection.getInstance();
        String instrc = "SELECT * FROM client WHERE idClient=?";
        try (PreparedStatement ps = conn.prepareStatement(instrc)) {
            ps.setInt(1, id); // Passer le paramètre id à la requête SQL
            try (ResultSet rs = ps.executeQuery()) {
                if (rs.next()) {
                    String nom = rs.getString("nomClient");
                    double credit = rs.getDouble("credit");
                    Client client = new Client(id, nom, credit);
                    return client;
            }
        } catch (SQLException e) {
            e.printStackTrace();
```

```
//ajout d'un Client
  public boolean add(Client client) {
      Connection conn=SingletonConnection.getInstance();
      String instrc = "insert into client (idClient ,nomClient, credit) values (?,?, ?)";
      try (PreparedStatement ps = conn.prepareStatement(instrc)) {
          ps.setInt(1,client.getId());
          ps.setString(2, client.getNom());
          ps.setDouble(3, client.getCredit());
          ps.executeUpdate();
          return true;
      } catch (SQLException e) {
          e.printStackTrace();
          return false;
      }
  //modifier un client
  public boolean update(Client client) {
      Connection conn=SingletonConnection.getInstance();
      String instrc = "update client set nomClient = ?, credit = ? where idClient = ?";
      try (PreparedStatement ps = conn.prepareStatement(instrc)) {
          ps.setString(1, client.getNom());
          ps.setDouble(2, client.getCredit());
          ps.setInt(3, client.getId());
          ps.executeUpdate();
          return true;
      } catch (SQLException e) {
          e.printStackTrace();
          return false;
      }
  //Supprimer Client
  public boolean delete(Client client) {
      Connection conn=SingletonConnection.getInstance();
      String instrc = "delete from client where idClient = ?";
    //Supprimer Client
    public boolean delete(Client client) {
        Connection conn=SingletonConnection.getInstance();
        String instrc = "delete from client where idClient = ?";
        try (PreparedStatement ps = conn.prepareStatement(instrc)) {
            ps.setInt(1, client.getId());
            ps.executeUpdate();
            return true;
        } catch (SQLException e) {
            e.printStackTrace();
            return false;
        }
    }
}
```

```
public class OrdonnanceDAO {
```

```
//Affichage Ordonnances
public ResultSet getAllOrdonnances() {
     Connection conn=SingletonConnection.getInstance();
         Statement statement = conn.createStatement();
         return statement.executeQuery("SELECT o.idordonnance,c.idClient, c.nomClient,m.idmedicament, m.nommedicament ,o.mois "
                 + "FROM ordonnance o, client c, ordonnance_medicament om, medicament \ensuremath{\mathsf{m}}
                 + "WHERE o.idclient = c.idClient "
                 + "AND o.idordonnance = om.idordonnance "
                 + "AND om.idmedicament = m.idmedicament"
+ " ORDER BY o.idordonnance");}
     catch (SQLException e) {
         e.printStackTrace();
         return null;
     }}
//Ajout Ordonnance
public void addOrdonnance(Ordonnance ordonnance) {
     Connection conn = SingletonConnection.getInstance();
     String query = "INSERT INTO ordonnance (idordonnance, idclient, mois) VALUES (?, ?, ?)";
     try (PreparedStatement statement = conn.prepareStatement(query)) {
         statement.setInt(1, ordonnance.getId());
         statement.setInt(2, ordonnance.getClient().getId());
         statement.setInt(3, ordonnance.getMois());
         statement.executeUpdate();
         // Vérification si une ligne a été insérée avec succès
      catch (SQLException e) {
         e.printStackTrace();
}
  //ajout d'un medicament dans ordonnance
  public boolean addMedicamentToOrdonnance(int id, int medicamentId) {
       Connection conn=SingletonConnection.getInstance();
       String instrc1 = "insert into ordonnance_medicament (idordonnance, idmedicament) values (?, ?)";
       String instrc2="update medicament set stock=stock-1 where idmedicament=?";
       try {
           PreparedStatement ps = conn.prepareStatement(instrc1);
           ps.setInt(1, id);
           ps.setInt(2, medicamentId);
           ps.executeUpdate();
           PreparedStatement ps1 = conn.prepareStatement(instrc2);
           ps1.setInt(1, medicamentId);
           ps1.executeUpdate();
           return true;
       } catch (SQLException e) {
           e.printStackTrace();
           return false:
       }
// Méthode pour supprimer un médicament spécifique d'une ordonnance
  public boolean deleteMedicamentFromOrdonnance(int idOrdonnance, int idMedicament) {
       Connection conn = SingletonConnection.getInstance();
       String deleteOrdonnanceMedicamentQuery = "DELETE FROM ordonnance_medicament WHERE idordonnance = ? AND idmedicament = ?";
       String increaseStockQuery = "UPDATE medicament SET stock = stock + 1 WHERE idmedicament = ?";
       try {
           // <u>Supprimer le médicament de</u> l'ordonnance
           PreparedStatement ps1 = conn.prepareStatement(deleteOrdonnanceMedicamentQuery);
           ps1.setInt(1, idOrdonnance);
           ps1.setInt(2, idMedicament);
           ps1.executeUpdate();
           // Augmenter le stock du médicament
               PreparedStatement ps2 = conn.prepareStatement(increaseStockQuery);
               ps2.setInt(1, idMedicament);
               ps2.executeUpdate();
               return true; // La suppression et la mise à jour du stock ont réussi
       } catch (SQLException e) {
           e.printStackTrace();
```

```
//Modifier une ordonnance et les médicament qu'elle contient
    public boolean updateOrdonnance(Ordonnance ordonnance) {
        Connection conn=SingletonConnection.getInstance();
        String updateinstrc = "update ordonnance set idclient = ?, mois = ? where idordonnance = ?";
        try {
           PreparedStatement updatePS = conn.prepareStatement(updateinstrc);
           updatePS.setInt(1, ordonnance.getClient().getId());
           updatePS.setInt(2, ordonnance.getMois());
           updatePS.setInt(3, ordonnance.getId());
           updatePS.executeUpdate();
            return true;}
         catch (SQLException e) {
            e.printStackTrace();
        return false:
    }
//Supprimer une ordonnance
    public boolean delete(int ordonnanceId) {
        Connection conn=SingletonConnection.getInstance();
        String OrdonnanceMedicamentinstrc = "delete from ordonnance medicament where idordonnance= ?";
        String Ordonnanceinstrc = "delete from ordonnance where idordonnance= ?";
        try {
            // Suppression des liens entre l'ordonnance et les médicaments
            PreparedStatement OrdonnanceMedicamentPS = conn.prepareStatement(OrdonnanceMedicamentinstrc);
           OrdonnanceMedicamentPS.setInt(1, ordonnanceId);
           OrdonnanceMedicamentPS.executeUpdate();
            // Suppression de l'ordonnance
            PreparedStatement OrdonnancePS = conn.prepareStatement(Ordonnanceinstrc);
           OrdonnancePS.setInt(1, ordonnanceId);
           OrdonnancePS.executeUpdate();
            return true:
//Supprimer une ordonnance
   public boolean delete(int ordonnanceId) {
        Connection conn=SingletonConnection.getInstance();
        String OrdonnanceMedicamentinstrc = "delete from ordonnance medicament where idordonnance= ?";
        String Ordonnanceinstrc = "delete from ordonnance where idordonnance= ?";
       try {
            // Suppression des liens entre l'ordonnance et les médicaments
            PreparedStatement OrdonnanceMedicamentPS = conn.prepareStatement(OrdonnanceMedicamentinstrc);
            OrdonnanceMedicamentPS.setInt(1, ordonnanceId);
           OrdonnanceMedicamentPS.executeUpdate();
            // Suppression de l'ordonnance
            PreparedStatement OrdonnancePS = conn.prepareStatement(Ordonnanceinstrc);
            OrdonnancePS.setInt(1, ordonnanceId);
           OrdonnancePS.executeUpdate();
            return true;
            }
         catch (SQLException e) {
            e.printStackTrace();
       return false;
   }
```

5.2.5 Classe: Medicament DAO

```
public class MedicamentDAO {
// recherche d'un médicament par nom
    public Medicament findByName(String nom) {
        Connection conn=SingletonConnection.getInstance();
        String instrc = "select * from medicament where nommedicament = ?";
       Medicament medicament=null;
       try (PreparedStatement ps = conn.prepareStatement(instrc);) {
            ps.setString(1, nom);
            ResultSet rs = ps.executeQuery();
            if (rs.next()) {
                int id = rs.getInt("idmedicament");
                String description = rs.getString("description");
                int stock = rs.getInt("stock");
              medicament = new Medicament( id,nom, description, stock);
            }
        } catch (SQLException e) {
            e.printStackTrace();
       return medicament;
    // afficher tous les médicaments
    public List<Medicament> getAll() {
       Connection conn=SingletonConnection.getInstance();
        List<Medicament> medicaments = new ArrayList<>();
       String instrc = "select * from medicament";
       try (PreparedStatement ps = conn.prepareStatement(instrc);
             ResultSet rs = ps.executeQuery()) {
            while (rs.next()) {
                int id = rs.getInt("idmedicament");
                String nom = rs.getString("nommedicament");
```

// afficher tous les médicaments

```
public List<Medicament> getAll() {
   Connection conn=SingletonConnection.getInstance();
   List<Medicament> medicaments = new ArrayList<>();
   String instrc = "select * from medicament";
   try (PreparedStatement ps = conn.prepareStatement(instrc);
         ResultSet rs = ps.executeQuery()) {
        while (rs.next()) {
            int id = rs.getInt("idmedicament");
            String nom = rs.getString("nommedicament");
            String description = rs.getString("description");
            int stock = rs.getInt("stock");
           Medicament medicament = new Medicament(id, nom, description, stock);
            medicaments.add(medicament);
        }
    } catch (SQLException e) {
        e.printStackTrace();
   return medicaments;
//afficher liste des nom des médicament
public List<String> getAllMedicamentNom() {
   List<Medicament> medicaments = getAll();
    List<String> medicamentNames = new ArrayList<>();
    for (Medicament medicament : medicaments) {
        medicamentNames.add(medicament.getNom());
   return medicamentNames;
}
```

```
//ajout medicament
public boolean add(Medicament medicament) {
   Connection conn=SingletonConnection.getInstance();
   String instrc = "insert into medicament (idmedicament, nommedicament, description, stock) values (?, ?, ?,?)";
   try (PreparedStatement ps = conn.prepareStatement(instrc)) {
       ps.setInt(1,medicament.getId());
       ps.setString(2, medicament.getNom());
       ps.setString(3, medicament.getDescription());
       ps.setInt(4, medicament.getStock());
       ps.executeUpdate();
       return true;
   } catch (SQLException e) {
       e.printStackTrace();
       return false;
//modifier médicament
public boolean update(Medicament medicament) {
   Connection conn=SingletonConnection.getInstance();
   String instrc = "update medicament set nommedicament = ?, description = ?, stock = ? where idmedicament = ?";
   try (PreparedStatement ps = conn.prepareStatement(instrc)) {
       ps.setString(1, medicament.getNom());
       ps.setString(2, medicament.getDescription());
       ps.setInt(3, medicament.getStock());
       ps.setInt(4, medicament.getId());
       ps.executeUpdate();
       return true;
   } catch (SQLException e) {
       e.printStackTrace();
       return false;
}
 //Supprimer medicament
 public boolean delete(int id) {
     Connection conn=SingletonConnection.getInstance();
      String instrc = "delete from medicament where idmedicament = ?";
     try (PreparedStatement ps = conn.prepareStatement(instrc)) {
          ps.setInt(1, id);
          ps.executeUpdate();
          return true;
      } catch (SQLException e) {
          e.printStackTrace();
          return false;
      }
 }
```

}

5.3 Couche view:

5.3.1 Table Model Medicament:

```
public class TableModelMed1 extends AbstractTableModel {
    private String[] nomColonnes=new String[] {"ID","NOM Med","DESCRIPTION","STOCK"};
    private Vector<String[]> rows=new Vector<String[]>();
    @Override
   public int getColumnCount() {
       // TODO Auto-generated method stub
       return nomColonnes.length;
   }
   @Override
   public int getRowCount() {
       // TODO Auto-generated method stub
       return rows.size();
   }
   @Override
   public Object getValueAt(int rowIndex, int columnIndex) {
       // TODO Auto-generated method stub
       return rows.get(rowIndex)[columnIndex];
   public String getColumnName(int column)
    {
       return nomColonnes[column];
   public void loadData(List<Medicament> medicaments)
       rows=new Vector<String[]>();
       for(Medicament m : medicaments)
           rows.add(new String[] {
                   String.valueOf(m.getId()),
                   m.getNom(),
                   m.getDescription(),
                   String.valueOf(m.getStock())});
       fireTableChanged(null);
// Méthode pour effacer les données actuellement affichées dans le tableau
    public void clearData() {
// Méthode pour effacer les données actuellement affichées dans le tableau
    public void clearData() {
         rows.clear();
        fireTableDataChanged();
    }
    // Méthode pour ajouter une seule ligne de données à afficher dans le tableau
    public void addData(Medicament medicament) {
         rows.add(new String[] {
                 String.valueOf(medicament.getId()),
                 medicament.getNom(),
                 medicament.getDescription(),
                 String.valueOf(medicament.getStock())});
        fireTableRowsInserted(rows.size() - 1, rows.size() - 1);
    }
}
```

5.3.2 Table Model Ordonnance:

```
public class TableModelOrdonnance extends AbstractTableModel {
private String[] nomColonnes = new String[] {"idordonnance", "idCilent", "nomClient", "idmedicament", "nommedicament", "mois"};
private Vector<String[]> rows = new Vector<String[]>();
@Override
public int getColumnCount() {
   return nomColonnes.length;
public int getRowCount() {
   return rows.size();
public Object getValueAt(int rowIndex, int columnIndex) {
   return rows.get(rowIndex)[columnIndex];
@Override
public String getColumnName(int column) {
   return nomColonnes[column];
public void loadData(ResultSet rs) {
     rows.clear(); // Effacer les données existantes
     try {
          while (rs.next()) {
                rows.add(new String[] {
                     String.valueOf(rs.getInt("idordonnance")),
                     String.valueOf(rs.getInt("idClient")),
                     rs.getString("nomClient"),
                     String.valueOf(rs.getInt("idmedicament")),
                     rs.getString("nommedicament"),
                     rs.getString("mois")
                });
          }
     } catch (SQLException e) {
          e.printStackTrace();
     fireTableChanged(null);
}}
```

5.3.3 Table Model Client

```
public class tablemodelclient extends AbstractTableModel {
    private String[] nomColonnes=new String[] {"ID","NOM","CREDIT"};
    private Vector<String[]> rows=new Vector<String[]>();
    @Override
    public int getColumnCount() {
        // TODO Auto-generated method stub
        return nomColonnes.length;
    }
    @Override
    public int getRowCount() {
        // TODO Auto-generated method stub
        return rows.size();
    }
    @Override
    public Object getValueAt(int rowIndex, int columnIndex) {
        // TODO Auto-generated method stub
        return rows.get(rowIndex)[columnIndex];
    }
    public String getColumnName(int column)
        return nomColonnes[column];
    public void loadData(List<Client> clients)
        rows=new Vector<String[]>();
        for(Client c : clients)
            rows.add(new String[] {
                    String.valueOf(c.getId()),
                    c.getNom(),
                    String.valueOf(c.getCredit())});
        fireTableChanged(null);
    }
}
```

```
5.3.4 Login Interface
public class LoginInterface extends JFrame {
     *
     */
    private JTextField txt_login;
    private JPasswordField txtpasswrd;
    private JFrame fermer_Login;
    static private String password;
    public static String getPassword() {
        return password;
    }
    public static int getIntLog() {
        return intLog;
    }
    static private int intLog;
    /**
     * Launch the application.
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
             public void run() {
                 try {
                     LoginInterface window = new LoginInterface();
                     window.setVisible(true);
                 } catch (Exception e) {
                     e.printStackTrace();
                 }
```

}

});

}

```
* Create the application.
public LoginInterface() {
    initialize();
}
/**
* Initialize the contents of the frame.
public int getIdentifiant() {
   return intLog;
}
public String getMotDePasse() {
   return password;
private void initialize() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(200, 200, 781, 435);
   getContentPane().setLayout(null);
   JLabel lblNewLabel = new JLabel("Login Pharmacie");
   lblNewLabel.setIcon(null);
   lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 45));
   lblNewLabel.setHorizontalAlignment(SwingConstants.CENTER);
   lblNewLabel.setBounds(166, 25, 469, 56);
   getContentPane().add(lblNewLabel);
   JLabel login_lbl = new JLabel("Login");
   login_lbl.setFont(new Font("Tahoma", Font.BOLD, 30));
    login lbl.setHorizontalAlignment(SwingConstants.CENTER);
   login_lbl.setBounds(104, 123, 128, 33);
   getContentPane().add(login lbl);
   JLabel passwrd_lbl = new JLabel("Mot de passe");
   passwrd_lbl.setFont(new Font("Tahoma", Font.BOLD, 30));
   passwrd_lbl.setHorizontalAlignment(SwingConstants.CENTER);
   passwrd lbl.setBounds(50, 214, 259, 33);
   getContentPane().add(passwrd lbl);
```

```
txt_login = new JTextField();
  txt_login.setFont(new Font("Tahoma", Font.BOLD, 20));
  txt_login.setBounds(334, 134, 242, 33);
  getContentPane().add(txt_login);
  txt_login.setColumns(10);
  txtpasswrd = new JPasswordField();
  txtpasswrd.setFont(new Font("Tahoma", Font.BOLD, 20));
  txtpasswrd.setBounds(334, 218, 242, 33);
  getContentPane().add(txtpasswrd);
  JButton btnNewButton = new JButton("Login");
  btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 30));
  btnNewButton.setForeground(new Color(50, 205, 50));
  btnNewButton.addActionListener(new ActionListener() {
      public void actionPerformed(ActionEvent e) {
           password=txtpasswrd.getText();
           String login=txt_login.getText();
           intLog = Integer.parseInt(login);
           UtilisateurDAO u=new UtilisateurDAO();
           if(u.seConnecter(intLog, password) instanceof Pharmacien) {
               // on ouvre l'interface Pharmacien
               setVisible(false);
               new PharmacienInterface().setVisible(true);
           \textbf{else if} (u.seConnecter(\textit{intLog, password}) \ \textbf{instanceof} \ Administrateur) \ \{
               // on ouvre l'interface Administrateur
               setVisible(false);
               new AdminInterface().setVisible(true);
               JOptionPane.showMessageDialog(null, "Invalid Login Details", "Login Error", JOptionPane.ERROR_MESSAGE);
               txtpasswrd.setText(null);
               txt_login.setText(null);
           }
      }
  });
     });
     btnNewButton.setBounds(39, 334, 140, 54);
     getContentPane().add(btnNewButton);
     JButton btnNewButton_1 = new JButton("Reset");
     btnNewButton_1.setFont(new Font("Tahoma", Font.BOLD, 30));
     btnNewButton_1.addActionListener(new ActionListener() {
         public void actionPerformed(ActionEvent e) {
             txt_login.setText(null);
             txtpasswrd.setText(null);
         }
     });
     btnNewButton_1.setBounds(311, 334, 140, 54);
     getContentPane().add(btnNewButton 1);
     JButton btnNewButton_2 = new JButton("Exit");
     btnNewButton_2.setFont(new Font("Tahoma", Font.BOLD, 30));
     btnNewButton_2.addActionListener(new ActionListener() {
         public void actionPerformed(ActionEvent e) {
             fermer_Login = new JFrame("Exit");
             if(JOptionPane.showConfirmDialog(fermer_Login, "Confirmez si vous voulez fermer la fenetre", "Login", JOptionPane.YES_NO_OPTION)
                    ==0) {
                 System.exit(0):
            }
         }
     btnNewButton_2.setForeground(new Color(255, 0, 0));
     btnNewButton_2.setBounds(575, 334, 140, 54);
     getContentPane().add(btnNewButton_2);
     JSeparator separator = new JSeparator();
     separator.setBounds(39, 300, 666, 2);
     getContentPane().add(separator);
     JSeparator separator_1 = new JSeparator();
     separator_1.setBounds(39, 91, 666, 2);
     getContentPane().add(separator_1);
 }
```

}

		_	×
Logi	n Pharmacie	2	
Login			
Mot de passe			
Login	Reset	Exit	

5.3.5 Administrateur Interface

```
public class AdminInterface extends JFrame {
    private static final long serialVersionUID = 1L;
    private JPanel contentPane;
     * Launch the application.
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
             public void run() {
                  try {
                      AdminInterface frame = new AdminInterface();
                      frame.setVisible(true);
                  } catch (Exception e) {
                      e.printStackTrace();
             }
        });
    }
     * Create the frame.
    public AdminInterface() {
         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
         setBounds(100, 100, 1002, 694);
         contentPane = new JPanel();
         contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
         setContentPane(contentPane);
         JButton btnNewButton = new JButton("Profile");
        btnNewButton.setBounds(232, 148, 537, 88);
        btnNewButton.setIcon(new ImageIcon(AdminInterface.class.getResource("/images/user (4).png")));
        btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 30));
        btnNewButton.addActionListener(new ActionListener() {
             public void actionPerformed(ActionEvent e) {
                  setVisible(false);
                  new Profile2().setVisible(true);
             }
            new Profile2().setVisible(true);
        }
     });
     contentPane.setLayout(null);
     contentPane.add(btnNewButton);
     JButton btnNewButton_2 = new JButton("Gestion Clients");
     btnNewButton 2.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            setVisible(false);
            new GestionClient().setVisible(true);
     });
     btnNewButton_2.setBounds(232, 254, 537, 88);
     btnNewButton_2.setFont(new Font("Tahoma", Font.BOLD, 30));
     btnNewButton_2.setIcon(new ImageIcon(AdminInterface.class.getResource("/images/management.png")));
     contentPane.add(btnNewButton_2);
     JButton btnNewButton_3 = new JButton("Gestion Médicament");
     btnNewButton_3.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            setVisible(false);
            new GestionMed().setVisible(true);
     btnNewButton_3.setBounds(232, 362, 537, 88);
btnNewButton_3.setFont(new Font("Tahoma", Font.BOLD, 30));
     btnNewButton_3.setIcon(new ImageIcon(AdminInterface.class.getResource("/images/pills (1).png")));
     contentPane.add(btnNewButton_3);
```

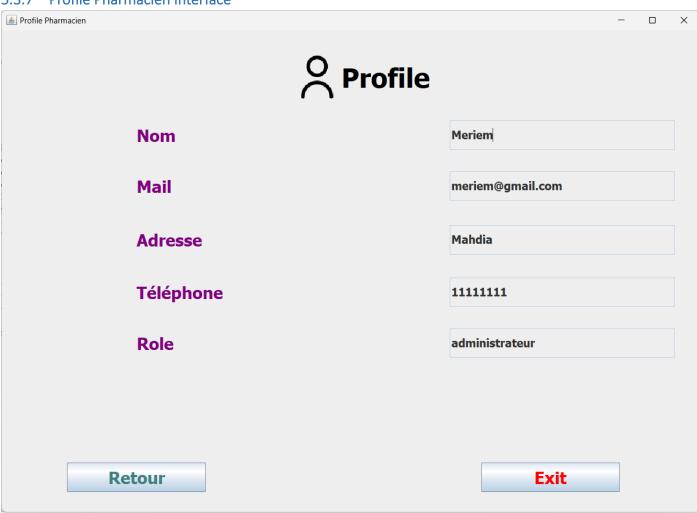
```
JButton btnNewButton_5 = new JButton("Déconnexion");
btnNewButton_5.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
    if(JOptionPane.showConfirmDialog(null, "Voulez vous vraiment Déconnecter ?", "Déconnecter", JOptionPane.YES_NO_OPTION)
         setVisible(false);
         new LoginInterface().setVisible(true);
});
btnNewButton_5.setBounds(232, 473, 537, 88);
btnNewButton_5.setIcon(new ImageIcon(AdminInterface.class.getResource("/images/logout.png")));
btnNewButton_5.setFont(new Font("Tahoma", Font.BOLD, 30));
contentPane.add(btnNewButton_5);
JLabel lblNewLabel = new JLabel("Votre Tableau De Bord");
lblNewLabel.setHorizontalAlignment(SwingConstants.CENTER);
lblNewLabel.setForeground(new Color(85, 107, 47));
lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 30));
lblNewLabel.setBounds(274, 31, 394, 71);
contentPane.add(lblNewLabel);
JButton btnNewButton_1 = new JButton("");
btnNewButton_1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
   if(JOptionPane.showConfirmDialog(null, "Confirmez si vous voulez fermer la fenetre", "fermer", JOptionPane.YES_NO_OPTION)
             System.exit(0);
         }
    }
btnNewButton_1.setIcon(new ImageIcon(AdminInterface.class.getResource("/images/button.png")));
btnNewButton_1.setBounds(843, 577, 72, 70);
contentPane.add(btnNewButton_1);
```



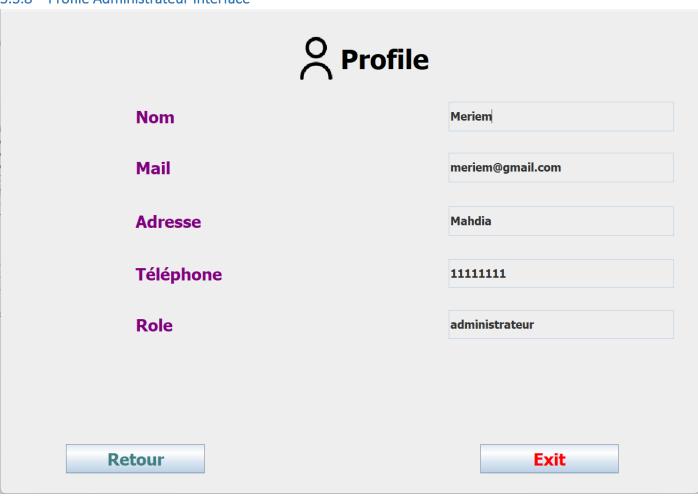
5.3.6 Pharmacien Interface



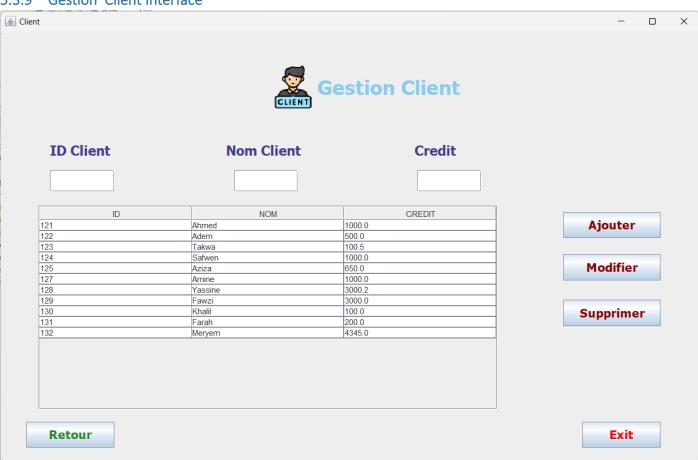
5.3.7 Profile Pharmacien Interface



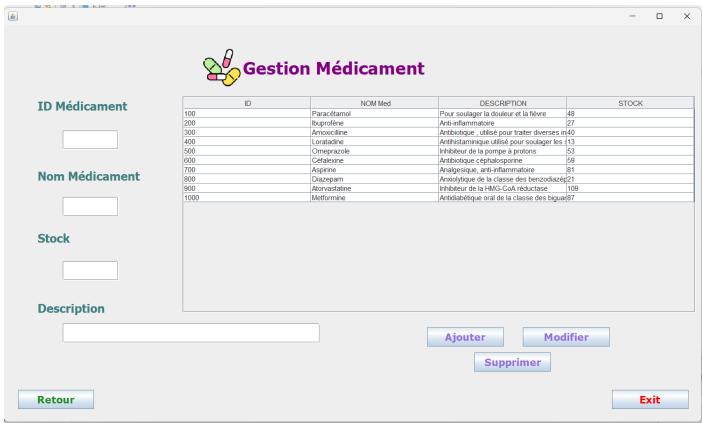
5.3.8 Profile Administrateur Interface



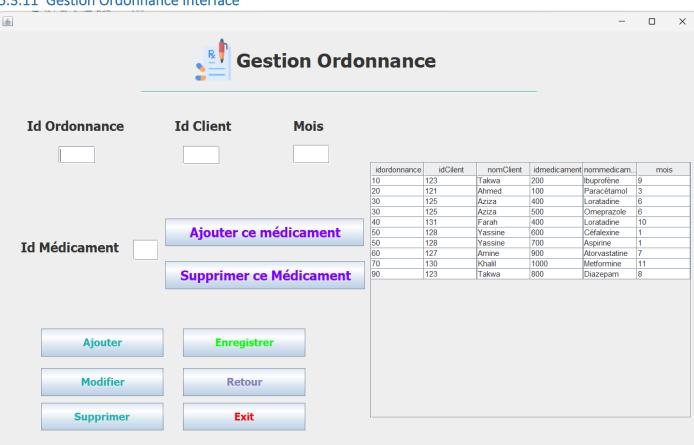
5.3.9 Gestion Client Interface



5.3.10 Gestion Medicament Interface



5.3.11 Gestion Ordonnance Interface

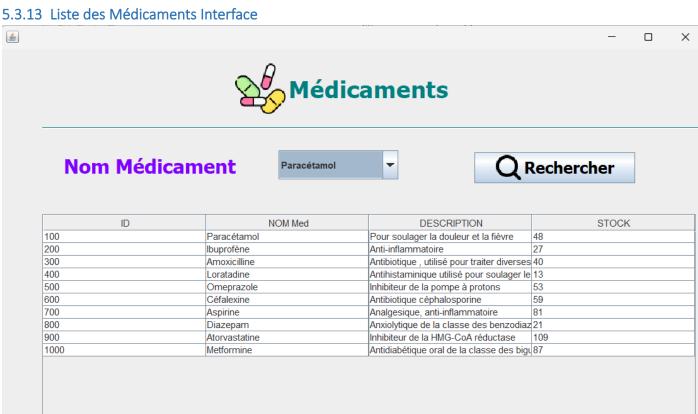




Liste des Clients et leurs Credits

ID	NOM	CREDIT
121	Ahmed	1000.0
122	Adem	500.0
123	Takwa	100.5
124	Safwen	1000.0
125	Aziza	650.0
127	Amine	1000.0
128	Yassine	3000.2
129	Fawzi	3000.0
130	Khalil	100.0
131	Farah	200.0
132	Meryem	4345.0

Retour



Afficher tous

Retour