Examen Java 2024/25

1. Diagrammes de Classe

1. Diagramme de classe principale:

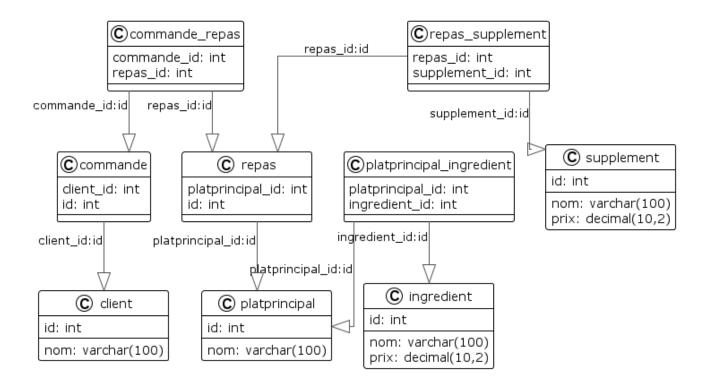
Client - int id - String nom - List commandes +void ajouterCommande(Commande commande) +void supprimerCommande(Commande commande) Commande Commande - int id - Client client - List repas - double prix +double calculerTotal() Contient Repas - int id - PlatPrincipal platPrincipal - List supplements - double prix +double calculerTotal() Čomposé composé 1 1 **PlatPrincipal** Supplement - int id - String nom - int id



2. Digramme de classe DAO:



2. Diagramme MLD



3. Tables MySQL

Client Table

```
CREATE TABLE Client
(
   id INT PRIMARY KEY AUTO_INCREMENT,
   nom VARCHAR(100) NOT NULL
);
```

PlatPrincipal Table

```
CREATE TABLE PlatPrincipal
(
    id INT PRIMARY KEY AUTO_INCREMENT,
    nom VARCHAR(100) NOT NULL
);
```

Ingredient Table

```
CREATE TABLE Ingredient
(

id INT PRIMARY KEY AUTO_INCREMENT,
nom VARCHAR(100) NOT NULL,
prix DECIMAL(10, 2) NOT NULL
```

Supplement Table

```
CREATE TABLE Supplement
(
   id   INT PRIMARY KEY AUTO_INCREMENT,
   nom   VARCHAR(100)   NOT NULL,
   prix DECIMAL(10, 2) NOT NULL
);
```

Junction Table for PlatPrincipal and Ingredient

```
CREATE TABLE PlatPrincipal_Ingredient
(
    platprincipal_id INT,
    ingredient_id INT,
    FOREIGN KEY (platprincipal_id) REFERENCES PlatPrincipal (id),
    FOREIGN KEY (ingredient_id) REFERENCES Ingredient (id),
    PRIMARY KEY (platprincipal_id, ingredient_id)
);
```

Repas Table

Junction Table for Repas and Supplement

Commande Table

```
client_id INT NOT NULL,
   FOREIGN KEY (client_id) REFERENCES Client (id)
);
```

Junction Table for Commande and Repas

```
CREATE TABLE Commande_Repas
(
    commande_id INT,
    repas_id INT,
    FOREIGN KEY (commande_id) REFERENCES Commande (id),
    FOREIGN KEY (repas_id) REFERENCES Repas (id),
    PRIMARY KEY (commande_id, repas_id)
);
```

4. Classes Java

Client.java

```
public class Client {
    private int id;
    private String nom;
    private List<Commande> commandes;

public Client(int id, String nom, List<Commande> commandes) {
        this.id = id;
        this.nom = nom;
        this.commandes = commandes;
    }
}
```

Commande.java

```
public class Commande {
    private int id;
    private Client client;
    private List<Repas> repas;
    private double prix;

public Commande(int id, Client client, List<Repas> repas) {
        this.id = id;
        this.client = client;
        this.repas = repas;
    }

private void calculatePrix() {
        for (Repas repas : repas) {
            this.prix += repas.getPrix();
        }
}
```

```
public Commande(int id, Client client) {
    this.id = id;
    this.client = client;
    this.repas = new ArrayList<>();
}

public void ajouterRepas(Repas repas) {
    this.repas.add(repas);
}

public void deleteRepas(Repas repas) {
    this.repas.remove(repas);
}
```

PlatPrincipal.java

```
public class PlatPrincipal {
    private int id;
    private String nom;
    private double prix;
    private List<Ingredient> ingredients;
    public PlatPrincipal(int id, String nom, List<Ingredient> ingredients) {
       this.id = id;
        this.nom = nom;
        this.ingredients = ingredients;
        this.calculatePrice();
    }
    private void calculatePrice() {
        for (Ingredient ingredient : ingredients) {
            this.prix += ingredient.getPrix();
    }
}
```

Commande.java

```
public class Commande {
    private int id;
    private Client client;
    private List<Repas> repas;
    private double prix;

public Commande(int id, Client client, List<Repas> repas) {
        this.id = id;
        this.client = client;
        this.repas = repas;
    }

private void calculatePrix() {
        for (Repas repas : repas) {
```

```
this.prix += repas.getPrix();
}
}
```

Ingredient.java

```
public class Ingredient {
    private int id;
    private String nom;
    private double prix;

public Ingredient(int id, String nom, double prix) {
        this.id = id;
        this.nom = nom;
        this.prix = prix;
    }
}
```

Repas.java

```
public class Repas {
    private int id;
    private PlatPrincipal platPrincipal;
    private List<Supplement> supplement;
    private double prix;
    public Repas(int id, PlatPrincipal platPrincipal, List<Supplement> supplement) {
        this.platPrincipal = platPrincipal;
        this.supplement = supplement;
        this.calculatePrice();
    }
    private void calculatePrice() {
        this.prix = platPrincipal.getPrix();
        for (Supplement supplement : supplement) {
            this.prix += supplement.getPrix();
        }
        this.prix += platPrincipal.getPrix();
    }
}
```

Supplement.java

```
public class Supplement {
    private int id;
    private String nom;
    private double prix;

public Supplement(int id, String nom, double prix) {
        this.id = id;
```

```
this.nom = nom;
this.prix = prix;
}
```

SingletonConnexionDB.java

```
public class SingletonConnexionDB {
    static final private String user = "root";
    static final private String password = "yahya";

public static Connection getConnection() throws SQLException {
        try {
            Connection con = DriverManager.getConnection(url, user, password);
            return con;
        } catch (SQLException e) {
            System.out.println("Problem with DB");
            throw new SQLException(e);
        }
    }
}
```

5. Classes DAO

Classes ClientDAO

```
public class ClientDAO {
    private Connection connection;
   public List<Client> listeClients() throws SQLException {
        List<Client> clients = new ArrayList<Client>();
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement ps = connection.prepareStatement("SELECT * FROM client");
        ResultSet rs = ps.executeQuery();
       while (rs.next()) {
           int id = rs.getInt("id");
            String nom = rs.getString("nom");
            Client client = new Client(id, nom);
            clients.add(client);
        return clients;
    }
    public void ajouterClient(Client client) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement ps = connection.prepareStatement("INSERT INTO client VALUES(?, ?)");
        ps.setInt(1, client.getId());
        ps.setString(2, client.getNom());
```

```
ps.executeUpdate();
    }
    public void supprimerClient(int id) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement ps = connection.prepareStatement("DELETE FROM client WHERE id = ?");
        ps.setInt(1, id);
        ps.executeUpdate();
    }
    public void modifierClient(Client client) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement ps = connection.prepareStatement("UPDATE client SET nom = ? WHERE id = ?");
        ps.setString(1, client.getNom());
        ps.setInt(2, client.getId());
        ps.executeUpdate();
    }
    public Client chercheClient(int id) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement ps = connection.prepareStatement("SELECT * FROM client WHERE id = ?");
        ps.setInt(1, id);
        ResultSet rs = ps.executeQuery();
        if (rs.next()) {
            return new Client(rs.getInt("id"), rs.getString("nom"));
        return null;
    }
}
```

Classe PlatPrincipalDAO

```
public class PlatPrincipalDAO {
   private Connection connection;
    public static void main(String[] args) throws SQLException {
        PlatPrincipalDAO platPrincipalDAO = new PlatPrincipalDAO();
        System.out.println(platPrincipalDAO.listePlatsPrincipaux());
    }
    public List<PlatPrincipal> listePlatsPrincipaux() throws SQLException {
        List<PlatPrincipal> platPrincipals = new ArrayList<>();
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("SELECT * FROM platprincipal");
        ResultSet resultSet = preparedStatement.executeQuery();
        while (resultSet.next()) {
           int id = resultSet.getInt("id");
            String nom = resultSet.getString("nom");
           PlatPrincipal platPrincipal = new PlatPrincipal(id, nom, getIngredientForPlat(id));
            platPrincipals.add(platPrincipal);
        preparedStatement.executeQuery();
        return platPrincipals;
    }
```

```
private List<Ingredient> getIngredientForPlat(int id) throws SQLException {
    List<Ingredient> ingredients = new ArrayList<>();
    connection = SingletonConnexionDB.getConnection();
    PreparedStatement preparedStatement = connection.prepareStatement("SELECT i.id, i.nom, i.prix FROM plat
    preparedStatement.setInt(1, id);
    ResultSet resultSet = preparedStatement.executeQuery();
    while (resultSet.next()) {
        int idIngredient = resultSet.getInt("i.id");
        String nom = resultSet.getString("i.nom");
        double prix = resultSet.getDouble("i.prix");
        Ingredient ingredient = new Ingredient(idIngredient, nom, prix);
        ingredients.add(ingredient);
    }
    return ingredients;
}
```

RepasDAO

```
public class RepasDAO {
   private Connection connection;
   private PlatPrincipalDAO platPrincipalDAO;
   private SupplementDAO supplementDAO;
   public List<Repas> listeRepas() throws SQLException {
       List<Repas> repas = new ArrayList<>();
       List<PlatPrincipal> platsprincipales = platPrincipalDAO.listePlatsPrincipaux();
       List<Supplement> supplements = supplementDAO.listeSupplements();
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("SELECT * from repas join examenjava
        ResultSet resultSet = preparedStatement.executeQuery();
       while (resultSet.next()) {
           int id_repas = resultSet.getInt(0);
           int id_plat = resultSet.getInt(1);
           int id_supplement = resultSet.getInt(2);
           List<Supplement> supplements1 = new ArrayList<>();
           supplements1.add(supplements.get(id_supplement));
           repas.add(new Repas(id_repas, platsprincipales.get(id_plat), supplements1));
       }
       return repas;
   }
   public Repas chercheRepas(int id) throws SQLException {
       String query = "SELECT * FROM Repas WHERE id = ?";
       connection = SingletonConnexionDB.getConnection();
       try (PreparedStatement stmt = connection.prepareStatement(query)) {
           stmt.setInt(1, id);
           ResultSet rs = stmt.executeQuery();
           if (rs.next()) {
               Repas repas = new Repas(
                       rs.getInt("id"),
                        new PlatPrincipalDAO(connection).cherchePlatPrincipal(rs.getInt("platprincipal_id"))
                );
                chargerSupplements(repas);
```

```
return repas;
        }
    return null;
}
public void ajouterRepas(Repas repas) throws SQLException {
    String query = "INSERT INTO Repas (platprincipal_id) VALUES (?)";
    connection = SingletonConnexionDB.getConnection();
    try (PreparedStatement stmt = connection.prepareStatement(query, Statement.RETURN_GENERATED_KEYS)) {
        stmt.setInt(1, repas.getPlatPrincipal().getId());
        stmt.executeUpdate();
        ResultSet rs = stmt.getGeneratedKeys();
        if (rs.next()) {
            repas.setId(rs.getInt(1));
            sauvegarderSupplements(repas);
    }
}
public void supprimerRepas(int id) throws SQLException {
    supprimerSupplementsDeRepas(id);
    String query = "DELETE FROM Repas WHERE id = ?";
    try (PreparedStatement stmt = connection.prepareStatement(query)) {
        stmt.setInt(1, id);
        stmt.executeUpdate();
    }
}
public void modifierRepas(Repas repas) throws SQLException {
    String query = "UPDATE Repas SET platprincipal_id = ? WHERE id = ?";
    try (PreparedStatement stmt = connection.prepareStatement(query)) {
        stmt.setInt(1, repas.getPlatPrincipal().getId());
        stmt.setInt(2, repas.getId());
        stmt.executeUpdate();
        supprimerSupplementsDeRepas(repas.getId());
        sauvegarderSupplements(repas);
    }
}
private void chargerSupplements(Repas repas) throws SQLException {
    String query = "SELECT s.* FROM Supplement s " +
            "JOIN Repas_Supplement rs ON s.id = rs.supplement_id " +
            "WHERE rs.repas_id = ?";
    try (PreparedStatement stmt = connection.prepareStatement(query)) {
        stmt.setInt(1, repas.getId());
        ResultSet rs = stmt.executeQuery();
        while (rs.next()) {
            Supplement supplement = new Supplement(
                    rs.getInt("id"),
                    rs.getString("nom"),
                    rs.getDouble("prix")
            );
            repas.ajouterSupplement(supplement);
        }
    }
}
```

```
private void sauvegarderSupplements(Repas repas) throws SQLException {
    String query = "INSERT INTO Repas_Supplement (repas_id, supplement_id) VALUES (?, ?)";
    connection = SingletonConnexionDB.getConnection();
    try (PreparedStatement stmt = connection.prepareStatement(query)) {
        for (Supplement supplement : repas.getSupplements()) {
            stmt.setInt(1, repas.getId());
            stmt.setInt(2, supplement.getId());
            stmt.executeUpdate();
        }
    }
}
private void supprimerSupplementsDeRepas(int repasId) throws SQLException {
    String query = "DELETE FROM Repas_Supplement WHERE repas_id = ?";
   try (PreparedStatement stmt = connection.prepareStatement(query)) {
        stmt.setInt(1, repasId);
        stmt.executeUpdate();
}
public List<Repas> chercheTousRepas() throws SQLException {
    List<Repas> repas = new ArrayList<>();
    String query = "SELECT * FROM Repas";
    connection = SingletonConnexionDB.getConnection();
    try (Statement stmt = connection.createStatement()) {
        ResultSet rs = stmt.executeQuery(query);
       while (rs.next()) {
            Repas r = new Repas(
                    rs.getInt("id"),
                    new PlatPrincipalDAO(connection).cherchePlatPrincipal(rs.getInt("platprincipal_id"))
            );
            chargerSupplements(r);
            repas.add(r);
        }
    return repas;
}
public List<Repas> chercheRepasParPlatPrincipal(int platPrincipalId) throws SQLException {
    List<Repas> repas = new ArrayList<>();
    String query = "SELECT * FROM Repas WHERE platprincipal_id = ?";
    try (PreparedStatement stmt = connection.prepareStatement(query)) {
        stmt.setInt(1, platPrincipalId);
        ResultSet rs = stmt.executeQuery();
        while (rs.next()) {
            Repas r = new Repas(
                   rs.getInt("id"),
                    new PlatPrincipalDAO(connection).cherchePlatPrincipal(rs.getInt("platprincipal_id"))
            chargerSupplements(r);
            repas.add(r);
        }
    return repas;
}
```

}

IngredientDAO

```
public class IngredientDAO {
    private Connection connection;
    public List<Ingredient> listeIngredients() throws SQLException {
        List<Ingredient> ingredients = new ArrayList<>();
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("SELECT * FROM ingredient");
        ResultSet resultSet = preparedStatement.executeQuery();
        while (resultSet.next()) {
            int id = resultSet.getInt("id");
            String nom = resultSet.getString("nom");
            double prix = resultSet.getDouble("prix");
            Ingredient ingredient = new Ingredient(id, nom, prix);
            ingredients.add(ingredient);
        return ingredients;
    }
    public void ajouterIngredient(Ingredient ingredient) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("INSERT INTO ingredient VALUES(?, ?,
        preparedStatement.setInt(1, ingredient.getId());
        preparedStatement.setString(2, ingredient.getNom());
        preparedStatement.setDouble(3, ingredient.getPrix());
        preparedStatement.executeUpdate();
    public Ingredient chercheIngredient(int id) throws SQLException {
        Ingredient ingredient = null;
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("SELECT * FROM ingredient WHERE id =
        preparedStatement.setInt(1, id);
        ResultSet resultSet = preparedStatement.executeQuery();
        if (resultSet.next()) {
            ingredient = new Ingredient(
                    resultSet.getInt("id"),
                    resultSet.getString("nom"),
                    resultSet.getDouble("prix")
            );
        return ingredient;
    }
    public void modierIngredient(Ingredient ingredient) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("UPDATE ingredient SET nom=?, prix=?
        preparedStatement.setString(1, ingredient.getNom());
        preparedStatement.setDouble(2, ingredient.getPrix());
        preparedStatement.setInt(3, ingredient.getId());
       preparedStatement.executeUpdate();
}
```

```
public class SupplementDAO {
    private Connection connection;
    public List<Supplement> listeSupplements() throws SQLException {
        List<Supplement> supplements = new ArrayList<>();
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("SELECT * FROM supplement");
        ResultSet resultSet = preparedStatement.executeQuery();
        while (resultSet.next()) {
            int id = resultSet.getInt("id");
            String nom = resultSet.getString("nom");
            double prix = resultSet.getDouble("prix");
            Supplement supplement = new Supplement(id, nom, prix);
            supplements.add(supplement);
       return supplements;
    }
    public void ajouteSupplement(Supplement supplement) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("INSERT INTO supplement VALUES(?, ?,
        preparedStatement.setInt(1, supplement.getId());
        preparedStatement.setString(2, supplement.getNom());
        preparedStatement.setDouble(3, supplement.getPrix());
       preparedStatement.executeUpdate();
    }
    public Supplement chercheSupplement(int id) throws SQLException {
        Supplement supplement = null;
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("SELECT * FROM supplement WHERE id =
        preparedStatement.setInt(1, id);
        ResultSet resultSet = preparedStatement.executeQuery();
        if (resultSet.next()) {
            supplement = new Supplement(
                    resultSet.getInt("id"),
                    resultSet.getString("nom"),
                    resultSet.getDouble("prix")
            );
        return supplement;
    }
    public void modierSupplement(Supplement supplement) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("UPDATE supplement SET nom=?, prix=?
        preparedStatement.setString(1, supplement.getNom());
        preparedStatement.setDouble(2, supplement.getPrix());
        preparedStatement.setInt(3, supplement.getId());
        preparedStatement.executeUpdate();
    }
    public void supprimerSupplement(int id) throws SQLException {
        connection = SingletonConnexionDB.getConnection();
        PreparedStatement preparedStatement = connection.prepareStatement("DELETE FROM supplement WHERE id = ?"
        preparedStatement.setInt(1, id);
        preparedStatement.executeUpdate();
    }
```

CommandeDAO

```
public class CommandeDAO {
    private Connection connection;
    public Commande chercheCommande(int id) throws SQLException {
        String query = "SELECT * FROM Commande WHERE id = ?";
        try (PreparedStatement stmt = connection.prepareStatement(query)) {
            stmt.setInt(1, id);
            ResultSet rs = stmt.executeQuery();
            if (rs.next()) {
                Commande commande = new Commande(
                        rs.getInt("id"),
                        new ClientDAO(connection).chercheClient(rs.getInt("client_id"))
                );
                chargerRepas(commande);
                return commande;
            }
        }
        return null;
    }
    public void ajouterCommande(Commande commande) throws SQLException {
        String query = "INSERT INTO Commande (client_id) VALUES (?)";
        try (PreparedStatement stmt = connection.prepareStatement(query, Statement.RETURN GENERATED KEYS)) {
            stmt.setInt(1, commande.getClient().getId());
            stmt.executeUpdate();
            ResultSet rs = stmt.getGeneratedKeys();
            if (rs.next()) {
                commande.setId(rs.getInt(1));
                sauvegarderRepas(commande);
            }
        }
    }
    public void supprimerCommande(int id) throws SQLException {
        String query = "DELETE FROM Commande WHERE id = ?";
       try (PreparedStatement stmt = connection.prepareStatement(query)) {
            stmt.setInt(1, id);
            stmt.executeUpdate();
        }
    }
    public void modifierCommande(Commande commande) throws SQLException {
        String query = "UPDATE Commande SET client_id = ? WHERE id = ?";
        try (PreparedStatement stmt = connection.prepareStatement(query)) {
            stmt.setInt(1, commande.getClient().getId());
            stmt.setInt(2, commande.getId());
            stmt.executeUpdate();
            supprimerRepasDeCommande(commande.getId());
            sauvegarderRepas(commande);
```

6. Menu Shell Restaurant

```
package com.mri.examenjava2425;
import java.sql.*;
import java.util.Scanner;
public class RestaurantShell {
    private Connection connection;
   private Scanner scanner;
    private ClientDAO clientDAO;
    private CommandeDAO commandeDAO;
    private RepasDAO repasDAO;
    private PlatPrincipalDAO platPrincipalDAO;
    private SupplementDAO supplementDAO;
   private IngredientDAO ingredientDAO;
    public RestaurantShell() {
       try {
            connection = SingletonConnexionDB.getConnection();
            clientDAO = new ClientDAO();
            commandeDAO = new CommandeDAO();
            repasDAO = new RepasDAO();
            platPrincipalDAO = new PlatPrincipalDAO();
            supplementDAO = new SupplementDAO();
            ingredientDAO = new IngredientDAO();
            scanner = new Scanner(System.in);
            insertSampleData();
        } catch (SQLException e) {
            System.err.println("Error initializing database: " + e.getMessage());
            System.exit(1);
    }
    private void insertSampleData() throws SQLException {
        Client client1 = new Client("Jean Dupont");
        Client client2 = new Client("Marie Martin");
        clientDAO.ajouterClient(client1);
        clientDAO.ajouterClient(client2);
        Ingredient ing1 = new Ingredient("Pain burger", 1.50);
        Ingredient ing2 = new Ingredient("Steak haché", 3.50);
        Ingredient ing3 = new Ingredient("Salade", 0.50);
        ingredientDAO.ajouterIngredient(ing1);
        ingredientDAO.ajouterIngredient(ing2);
        ingredientDAO.ajouterIngredient(ing3);
        PlatPrincipal plat1 = new PlatPrincipal("Burger Classic");
        plat1.ajouterIngredient(ing1);
```

```
plat1.ajouterIngredient(ing2);
    plat1.ajouterIngredient(ing3);
    platPrincipalDAO.ajouterPlatPrincipal(plat1);
    Supplement sup1 = new Supplement("Fromage", 1.00);
    Supplement sup2 = new Supplement("Bacon", 1.50);
    supplementDAO.ajouterSupplement(sup1);
    supplementDAO.ajouterSupplement(sup2);
    Repas repas1 = new Repas(plat1);
    repas1.ajouterSupplement(sup1);
    repasDAO.ajouterRepas(repas1);
    Commande commande1 = new Commande(client1);
    commande1.ajouterRepas(repas1);
    commandeDAO.ajouterCommande(commande1);
}
public void start() {
    boolean running = true;
    while (running) {
        displayMenu();
        String choice = scanner.nextLine();
        switch (choice) {
            case "1":
                gestionClients();
                break;
            case "2":
                gestionCommandes();
                break:
            case "3":
                gestionPlats();
                break;
            case "4":
                running = false;
                break;
            default:
                System.out.println("Option invalide");
        }
    }
}
private void displayMenu() {
    System.out.println("\n=== Restaurant Management System ===");
    System.out.println("1. Gestion des clients");
    System.out.println("2. Gestion des commandes");
    System.out.println("3. Gestion des plats");
    System.out.println("4. Quitter");
    System.out.print("Choix: ");
}
private void gestionClients() {
    while (true) {
        System.out.println("\n=== Gestion des Clients ===");
        System.out.println("1. Ajouter client");
        System.out.println("2. Chercher client");
        System.out.println("3. Modifier client");
        System.out.println("4. Supprimer client");
        System.out.println("5. Retour");
        System.out.print("Choix: ");
```

```
try {
            switch (choice) {
                case "1":
                    System.out.print("Nom du client: ");
                    String nom = scanner.nextLine();
                    Client newClient = new Client(nom);
                    clientDAO.ajouterClient(newClient);
                    System.out.println("Client ajouté avec succès!");
                    break;
                case "2":
                    System.out.print("ID du client: ");
                    int id = Integer.parseInt(scanner.nextLine());
                    Client client = clientDAO.chercheClient(id);
                    if (client != null) {
                        System.out.println("Client trouvé: " + client.getNom());
                    } else {
                        System.out.println("Client non trouvé");
                    }
                    break;
                case "3":
                    System.out.print("ID du client à modifier: ");
                    int idModif = Integer.parseInt(scanner.nextLine());
                    Client clientModif = clientDAO.chercheClient(idModif);
                    if (clientModif != null) {
                        System.out.print("Nouveau nom: ");
                        String nouveauNom = scanner.nextLine();
                        clientModif.setNom(nouveauNom);
                        clientDAO.modifierClient(clientModif);
                        System.out.println("Client modifié avec succès!");
                    } else {
                        System.out.println("Client non trouvé");
                    }
                    break;
                case "4":
                    System.out.print("ID du client à supprimer: ");
                    int idSuppr = Integer.parseInt(scanner.nextLine());
                    clientDAO.supprimerClient(idSuppr);
                    System.out.println("Client supprimé avec succès!");
                    break;
                case "5":
                    return;
                default:
                    System.out.println("Option invalide");
            }
        } catch (SQLException e) {
            System.err.println("Erreur: " + e.getMessage());
        }
   }
}
public static void main(String[] args) {
    RestaurantShell shell = new RestaurantShell();
    shell.start();
}
```

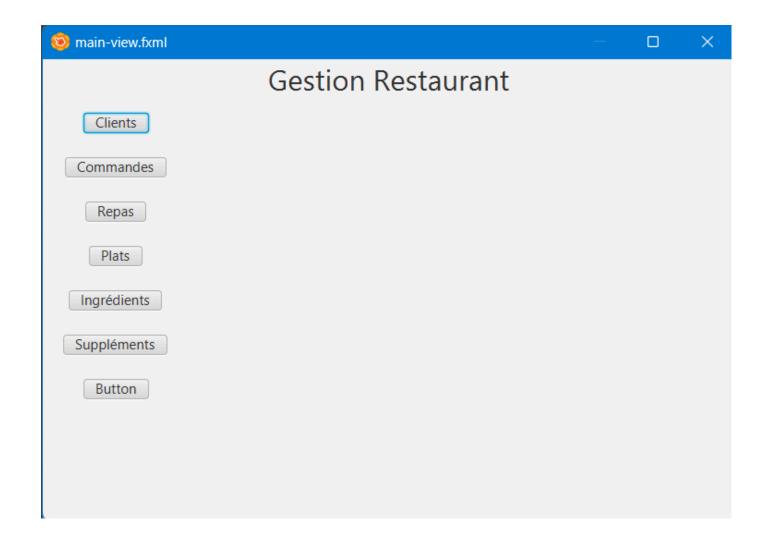
}

String choice = scanner.nextLine();

7. Inteface JAVAFX

```
package com.mri.examenjava2425;
import javafx.application.Application;
import javafx.fxml.FXMLLoader;
import javafx.scene.Scene;
import javafx.stage.Stage;
import java.io.IOException;
public class MainApplication extends Application {
   @Override
   public void start(Stage stage) throws IOException {
       FXMLLoader fxmlLoader = new FXMLLoader(MainApplication.class.getResource("main-view.fxml"));
       Scene scene = new Scene(fxmlLoader.load());
       stage.setTitle("Application Examen 24-25");
       stage.setScene(scene);
       stage.show();
   }
   public static void main(String[] args) {
       launch();
    }
}
```

Capture D'interface UI



Assisstant vocale

Transcription
Enregistrer Commande Lancer La commande