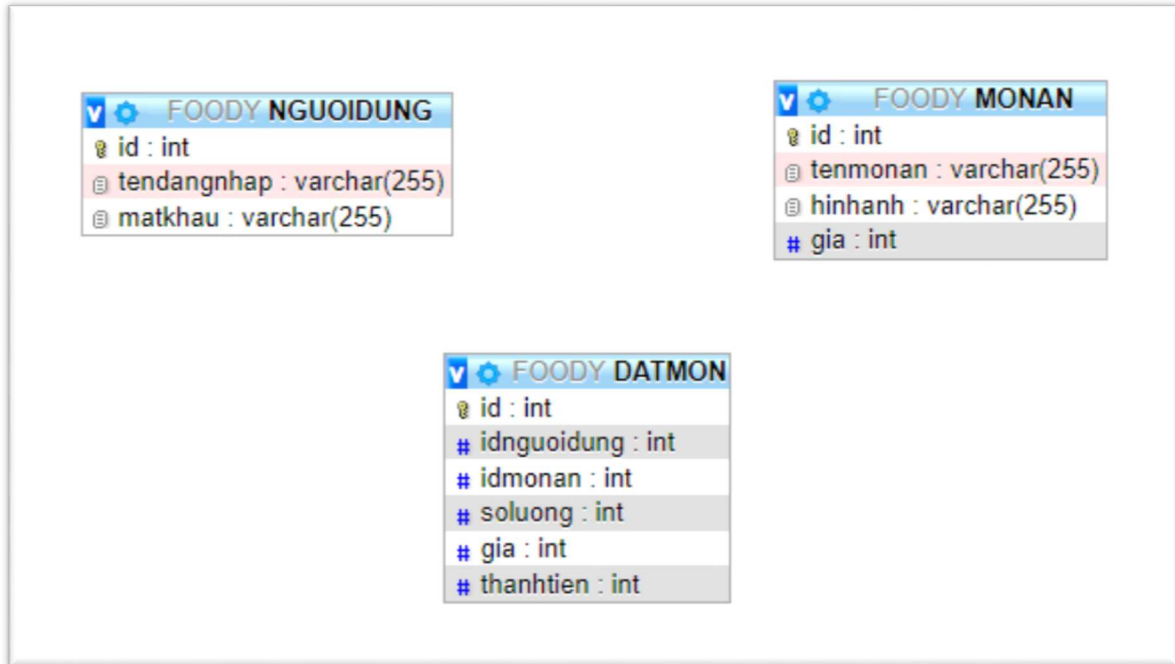


## THỰC HÀNH XÂY DỰNG DỊCH VỤ MẠNG *BUỔI 3*

### MVC

Xây dựng dự án đặt món ăn trực tuyến. Hệ thống cho phép người dùng đăng nhập, chọn thức ăn trong thực đơn và tiến hành đặt món.

1. Tạo cơ sở dữ liệu **FOODY** theo sơ đồ sau:



- Sử dụng phpmyadmin hoặc Dbeaver để tạo CSDL

2. Chức năng Login

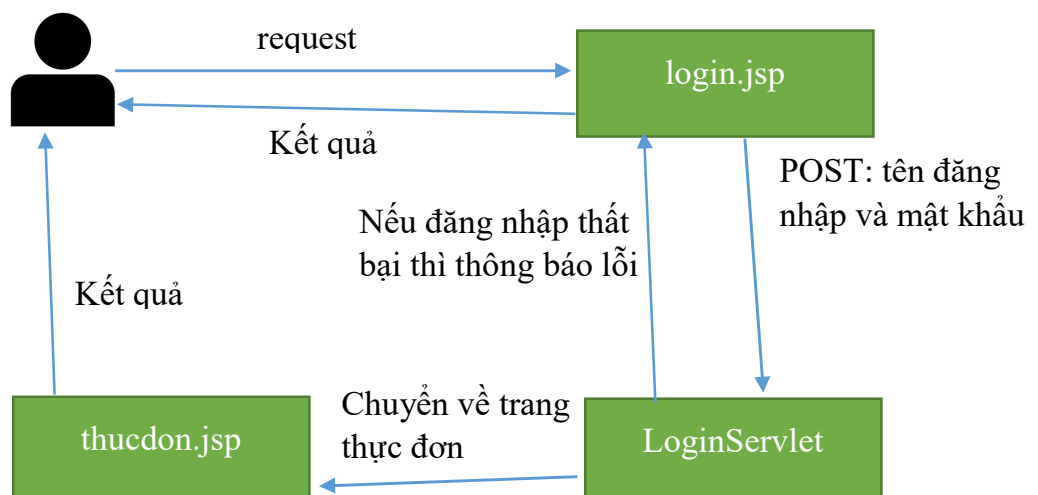
- a. Giao diện Login: tạo tập tin login.jsp

## Welcome to yummy street food

Tên đăng nhập:

Mật khẩu:

- b. Kiến trúc chức năng Login



- *Login.jsp*

```
<h1>Welcome to yummy street food </h1>

<form action="LoginServlet" method="POST">
  Tên đăng nhập: <input type="text" name="tendangnhap"> <br />
  Mật khẩu: <input type="password" name="matkhau" />
  <input type="submit" value="Submit" />
</form>
<%
    String message = (String) request.getAttribute("message");
    if(message!=null)
        out.print("<p>" + message + "</p>");
%>
```

- *LoginServlet.java*

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    // TODO Auto-generated method stub
    //doGet(request, response);

    NguoiDung nd=new
    UserDAO().login(request.getParameter("tendangnhap"),
    request.getParameter("matkhau"));
    if(nd!=null)
    {
        HttpSession session = request.getSession();
        session.setAttribute("nguoidung", nd);

        List list=new FoodDAO().getList();
        request.setAttribute("list", list);
        RequestDispatcher view =
        request.getRequestDispatcher("thucdon.jsp");
        view.forward(request, response);
    }
    else
    {
        request.setAttribute("message", "Tên đăng nhập hoặc mật
        khẩu không chính xác");
        RequestDispatcher view =
        request.getRequestDispatcher("login.jsp");
        view.forward(request, response);
    }
}
```

- *DAO UserDAO.java*

```

package DAO;

import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

import Model.NguoiDung;
public class UserDao {
    public NguoiDung login(String tendangnhap, String matkhau)
    {
        NguoiDung nd=null;
        DBService db=new DBService();
        PreparedStatement statement;
        try {
            statement = db.getConn().prepareStatement("SELECT * from
NGUOIDUNG WHERE tendangnhap = ? AND matkhau=?");
            statement.setString(1, tendangnhap);
            statement.setString(2,MD5.getMd5(matkhau) );
            ResultSet rs=db.executeQuery(statement);
            if(rs!=null)
            {
                while(rs.next())
                {
                    nd=new NguoiDung(rs.getInt("id"),
rs.getString("tendangnhap"));
                }
            }
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

        return nd;
    }
}

```

- *Lớp MD5*

```

package DAO;

import java.math.BigInteger;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;

public class MD5 {
    public static String getMd5(String input)
    {

```

```

try {

    // Static getInstance method is called with hashing MD5
    MessageDigest md = MessageDigest.getInstance("MD5");

    // digest() method is called to calculate message digest
    // of an input digest() return array of byte
    byte[] messageDigest = md.digest(input.getBytes());

    // Convert byte array into signum representation
    BigInteger no = new BigInteger(1, messageDigest);

    // Convert message digest into hex value
    String hashtext = no.toString(16);
    while (hashtext.length() < 32) {
        hashtext = "0" + hashtext;
    }
    return hashtext;
}

// For specifying wrong message digest algorithms
catch (NoSuchAlgorithmException e) {
    throw new RuntimeException(e);
}
}
}

```

- *Model NguoiDung.java*

```
package Model;

public class NguoiDung {
    int id;
    String tendangnhap;

    public NguoiDung(int id, String tendangnhap) {
        super();
        this.id = id;
        this.tendangnhap = tendangnhap;
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getTendangnhap() {
        return tendangnhap;
    }

    public void setTendangnhap(String tendangnhap) {
        this.tendangnhap = tendangnhap;
    }
}
```

- *DBService.java*

```
package DAO;

import java.sql.*;

public class DBService {
    static final String JDBC_DRIVER = "com.mysql.cj.jdbc.Driver";
    static final String DB_URL =
"jdbc:mysql://192.168.153.128:3306/FOODY?allowPublicKeyRetrieval=true&useSSL=false";
    static final String USER = "dbuser";
    static final String PASS = "p@ssword";

    Connection conn = null;
    public DBService()
    {

        try {
            Class.forName(JDBC_DRIVER);
            conn = DriverManager.getConnection(DB_URL,USER,PASS);
        } catch (ClassNotFoundException | SQLException e) {
```

```

        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

public Connection getConn() {
    return conn;
}

public ResultSet executeQuery(PreparedStatement stmt)
{
    //Statement stmt = null;
    ResultSet rs=null;
    try {
        //stmt = conn.createStatement();
        rs = stmt.executeQuery();
        //stmt.close();
    } catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
    return rs;
}


public void executeUpdate(PreparedStatement stmt)
{
    try {

        stmt.executeUpdate();
        stmt.close();
    } catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

public void close() {
    try {
        //stmt.close();
        conn.close();
    } catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}
}

```

2. Chức năng đặt món
  - a. Giao diện thực đơn

Food list			
Tên món ăn	Hình ảnh	Giá	
Cơm tấm		20000	<a href="#">Đặt món</a>

b. Giao diện đặt món ăn

## Order

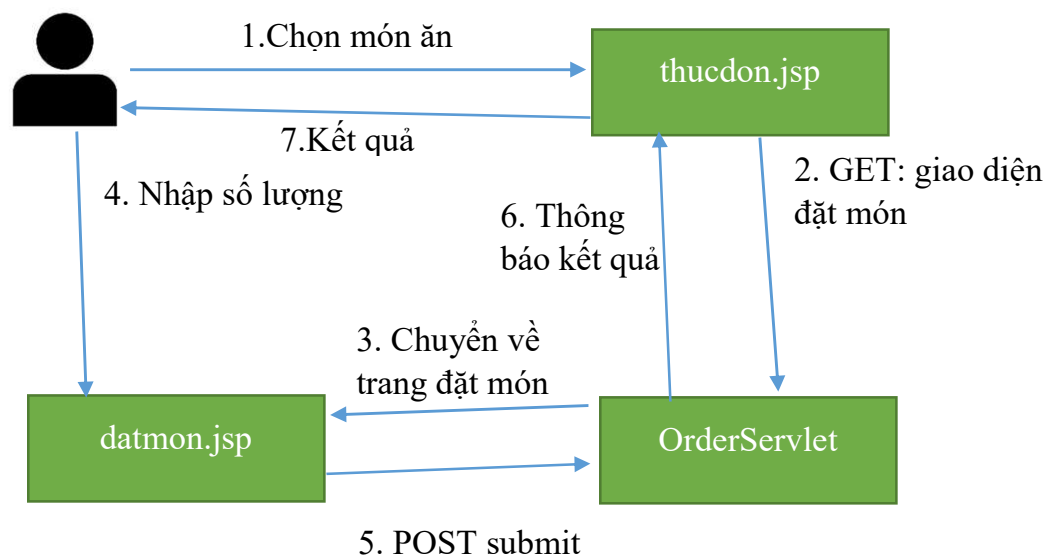
Tên món ăn: Cơm tấm

Giá: 20000

Số lượng:

Thành tiền:

c. Kiến trúc chức năng đặt món



- thucdon.jsp

```
<h1>Food list</h1>
<%
    List<Food> list = (List<Food>) request.getAttribute("list");
%>
<%
    String message = (String) request.getAttribute("message");
    if(message!=null)
        out.print("<p>"+message+"</p>");
%>
<table >
<tr>
<th>Tên món ăn</th>
<th>Hình ảnh</th>
<th>Giá</th>
<th></th>
</tr>
<%
for (final Food food : list) {
    out.print("<tr><td>"+food.getTen()+"</td><td><img width='80'
src='./img/'+food.getHinh()+"/></td><td>"+
    +food.getGia()+"</td><td><a
href='OrderServlet?idmonan="+food.getId()+">Đặt món</a></td></tr>");
}

%>
</table>
```

- OrderServlet.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    //response.getWriter().append("Served at:
").append(request.getContextPath());

    Food food=new FoodDAO().getFoodByID(Integer.parseInt(
request.getParameter("idmonan")));
    request.setAttribute("food", food);
    RequestDispatcher view =
request.getRequestDispatcher("datmon.jsp");
    view.forward(request, response);

}

/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    //doGet(request, response);

    HttpSession session = request.getSession();
    NguoIDung nd =(NguoIDung)session.getAttribute("nguoidung");
```



```

        new FoodDAO().Order(nd.getId(),
Integer.parseInt(request.getParameter("idmonan"))
        ,
Integer.parseInt(request.getParameter("soluong")),
Integer.parseInt(request.getParameter("gia")),
Integer.parseInt(request.getParameter("thanhtien")));

        List list=new FoodDAO().getList();
        request.setAttribute("list", list);

        request.setAttribute("message", "Món ăn đã được đặt thành
công!");
        RequestDispatcher view =
request.getRequestDispatcher("thucdon.jsp");
        view.forward(request, response);
    }

```

- FoodDAO.java

```

package DAO;

import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;

import Model.Food;
import Model.NgườiDùng;

public class FoodDAO {
    public List<Food> getList(){

        List<Food> list=new ArrayList<Food>();
        DBService db=new DBService();
        PreparedStatement statement;

        try {
            statement = db.getConn().prepareStatement("SELECT *
from MONAN");
            ResultSet rs=db.executeQuery(statement);

            if(rs!=null)
            {

```

```

                                while(rs.next())
                                {
                                    list.add( new Food(rs.getInt("id"),
rs.getString("tenmonan"),
rs.getString("hinhanh"),rs.getInt("gia")));
                                }
                            }
                    } catch (SQLException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                    }
                return list;
            }

    public Food getFoodByID(int id)
    {
        Food food=null;
        DBService db=new DBService();
        PreparedStatement statement;
        try {
            statement = db.getConn().prepareStatement("SELECT * from
MONAN WHERE id=?");
            statement.setInt(1, id);

            ResultSet rs=db.executeQuery(statement);

            if(rs!=null)
            {
                while(rs.next())
                {
                    food=new Food(rs.getInt("id"),
rs.getString("tenmonan"),
rs.getString("hinhanh"),rs.getInt("gia"));
                }
            }

        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }

```

```

        return food;
    }

    public void Order(int idnguoidung,int idmonan, int soluong, int gia, int
    thanhtien)
    {
        DBService db=new DBService();
        PreparedStatement statement;
        try {
            statement = db.getConn().prepareStatement("INSERT INTO
    DATMON(idnguoidung,idmonan,soluong,gia,thanhtien) values(?,?,?,?,?)");
            statement.setInt(1, idnguoidung);
            statement.setInt(2, idmonan);
            statement.setInt(3, soluong);
            statement.setInt(4, gia);
            statement.setInt(5, thanhtien);

            db.executeUpdate(statement);
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
}

```

- Model Food.java

```

package Model;

public class Food {
    int id;
    String ten;
    String hinh;
    int gia;

    public Food(int id, String ten, String hinh, int gia) {
        super();
        this.id = id;
        this.ten = ten;
        this.hinh = hinh;
        this.gia = gia;
    }

    public int getId() {
        return id;
    }
}

```

```

    public void setId(int id) {
        this.id = id;
    }

    public String getTen() {
        return ten;
    }

    public void setTen(String ten) {
        this.ten = ten;
    }

    public String getHinh() {
        return hinh;
    }

    public void setHinh(String hinh) {
        this.hinh = hinh;
    }

    public int getGia() {
        return gia;
    }

    public void setGia(int gia) {
        this.gia = gia;
    }
}

```

- datmon.jsp

```

<h1>Order</h1>
<%
    Food food = (Food) request.getAttribute("food");
%>

<form action="OrderServlet" method="POST">
    Tên món ăn: <%=food.getTen() %> <br/>
    Giá: <input type="text" id="gia" name="gia" value='<%=food.getGia() %>' />
    <br/>
    Số lượng: <input type="text" id="soluong" name="soluong"
    onchange="tinhthanhtien()" /> <br/>
    Thành tiền: <input type="text" id="thanhtien" name="thanhtien" /><br/>
    <input type="hidden" name="idmonan" value='<%=food.getId() %>' />
    <input type="submit" value="Submit" />
</form>

<script>
function tinhthanhtien() {
    var soluong = document.getElementById("soluong").value;
    var gia = document.getElementById("gia").value;

    document.getElementById("thanhtien").value = soluong*gia;
}
</script>

```

