**Module 04 Course Project – Development Phase: Include Version Control**

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COP3805C Section 01 Advanced Java Programming

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**Module 04 Course Project – Development Phase: Include Version Control**

**Code**

#project.java

package cp3;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.Collection;

import java.util.List;

import java.util.Scanner;

public class project {

public void run() {

//Basic Structure

System.out.println("Welcome to Our Car Sales Application");

char input = 'Q';

do {

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

System.out.println("Please Choose A Selection!!");

System.out.println("Enter V To View All Cars");

System.out.println("Enter G To Get All Cars By Types Example Sedan, Coupe, SUV");

System.out.println("Enter C To Get All Color Quanties of Cars");

System.out.println("Enter S To Search For Car By Name With Quantity Of With Car");

System.out.println("Enter A To Add A Car");

System.out.println("Enter Q To Quit!");

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

//Get Input From User

Scanner kb = new Scanner(System.in);

input = kb.next().charAt(0); //Get input from user and give the first character

if(input == 'V') {

System.out.println("View All Cars");

GetProducts();

}else if (input == 'G') {

System.out.println("View Car Types");

GetProductByType();

}

else if (input == 'C') {

System.out.println("View Car Color Quanities");

GetProductByColorQuanities();

}else if (input == 'S') {

System.out.println("Search For A Car By Name With Quantity Of With Car");

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

System.out.println("Enter The Name Of The Car To Search");

String pName = kb.next();

if(pName.length() > 2) {

GetProductByName(pName);

}else {

System.out.println("Please Enter Atleast 3 Charatcers For Car name");

}

}

else if(input == 'A') {

//Call to Add A Car

System.out.println("Add A Car");

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

System.out.println("Enter Car Name: ");

String pName = kb.next();

System.out.println("Enter Car Quantity: ");

int qty = kb.nextInt();

AddProducts(pName , qty);

}

else if (input != 'Q'){

System.out.println("INVALID INPUT !?! Please Try Again!!");

}

}while (input != 'Q');

System.out.println("THANK YOU PLEASE COME AGAIN!!!!");

}

public void GetProducts() {

try {

Connection connect = DriverManager.getConnection("jdbc:mysql://localhost:3306/myStore","root","Deshawn34");

PreparedStatement ps = connect.prepareStatement("Select \* from products");

ResultSet rs = ps.executeQuery();

PrintHeader();

while(rs.next()) {

System.out.println(rs.getString("productID") + " " + rs.getString("name"));

}

PrintFooter();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

public void GetProductByType() {

try {

Connection connect = DriverManager.getConnection("jdbc:mysql://localhost:3306/myStore","root","Deshawn34");

PreparedStatement ps = connect.prepareStatement("Select \* from types");

ResultSet rs = ps.executeQuery();

PrintHeader();

while(rs.next()) {

System.out.println(rs.getString("typesID") + " " + rs.getString("name")+ " " + rs.getInt("qty"));

}

PrintFooter();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

public void GetProductByColorQuanities() {

try {

Connection connect = DriverManager.getConnection("jdbc:mysql://localhost:3306/myStore","root","Deshawn34");

PreparedStatement ps = connect.prepareStatement("Select \* from colors");

ResultSet rs = ps.executeQuery();

PrintHeader();

while(rs.next()) {

System.out.println(rs.getString("colorsID") + " " + rs.getString("name")+ " " + rs.getInt("qty"));

}

PrintFooter();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

public void GetProductByName(String name) {

try {

Connection connect = DriverManager.getConnection("jdbc:mysql://localhost:3306/myStore","root","Deshawn34");

PreparedStatement ps = connect.prepareStatement("Select \* from products where name = '" + name +"'");

ResultSet rs = ps.executeQuery();

PrintHeader();

while(rs.next()) {

System.out.println(rs.getString("name") + " " + rs.getInt("qty"));

}

PrintFooter();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

public void AddProducts(String name, int qty) {

try {

Connection connect = DriverManager.getConnection("jdbc:mysql://localhost:3306/myStore","root","Deshawn34");

PreparedStatement ps = connect.prepareStatement("insert into products(name , qty) values(? , ?)");

ps.setString(1, name);

ps.setInt(2, qty);

ps.executeUpdate();

System.out.println("This Car Has Been Added To The Database: " + name);

GetProducts();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

public void PrintHeader() {

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~");

System.out.println("Your Results Are:");

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~");

}

public void PrintFooter() {

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~");

System.out.println();

}

}

#main.java

package cp3;

public class main {

public static void main(String[] args) {

project p = new project();

p.run();

}

}

**Screenshots**

A screenshot of a computer

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