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**PhoneWare: User Manual**

Java Programming  
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## 1 Introduction

PhoneWare is a simple program designed for phone suppliers in shops and stores, which interacts with a MySQL database where the data is kept. PhoneWare has been designed in Java Standard Edition 1.6.0 and assumes that a working MySQL database is already configured and accessible.

Due to the time and skill limitations, this project is restricted and many of the desired functionalities are not yet implemented in the version 0.2, which is the current one, according to this documentation.

This project is part of a course named Applied Java Programming for my studies of Software Engineer at EVTEK University of Applied Sciences. The main goal is to be able to interconnect a graphical user interface (GUI), made in Java Swing, with a working MySQL database, using the JDBC driver manager.

## 2 Installation and Configuration

PhoneWare is distributed both with the source code (since it is GPL) and a JAR archive, which contains a ready and executable version of the program itself. The only part that the end user has to take care of is to install a MySQL database server on his or her computer and create an empty database named 'phoneware'.

The file 'phoneware\_db\_creation.sql' contains the necessary definitions for the database and makes possible for the end user to run it and create the database organization without any problem. For that, you should run the command: `mysql -p phoneware ; phoneware_db_creation.sql` on your command line.

Moreover, this project provides a sample data file which can populate the database with some testing-purpose values so that the end user is able to play with the program from the very beginning. For that, you should run the command: `mysql -p phoneware ; phoneware_db_sample_data.sql` on your command line.

Once the database server is working and accessible, the only necessary thing left is to make sure that the JDBC driver manager is installed and well configured on the current

computer. Please note that the class path to the JDBC driver has been set by default to */usr/share/java/mysql-connector-java.jar*, which is the default in GNU/Linux systems.

After the three points required above are met, PhoneWare will be ready to be run.

### 3 Running PhoneWare

In order to run PhoneWare, just type *java PhoneWare* from the command line or execute the JAR file provided with the distribution of the program.

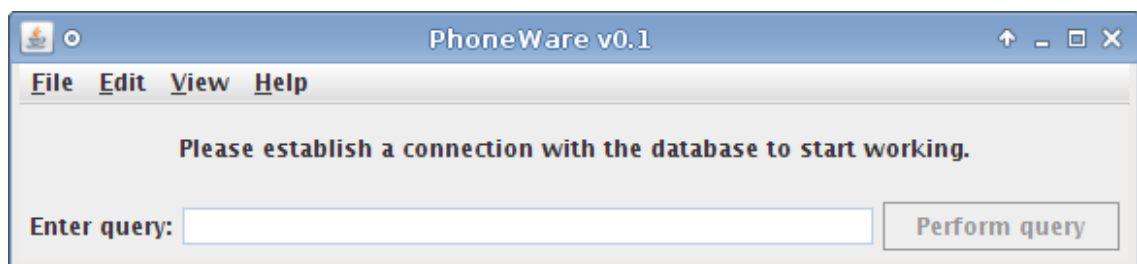


Figure 1: PhoneWare Initial Screen

Figure 1 shows the outlook of the program once it is started. When the program is up and running, nothing will be displayed, since we need to perform a connection to the database in order to start working. For that purpose, open 'File' and select 'Connect to database', which will pop up a connection dialog in which the server, port, user and password can be provided, according to figure 2.

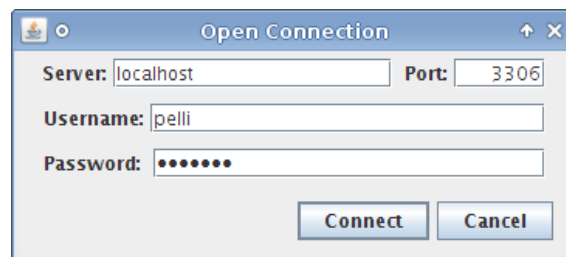


Figure 2: PhoneWare Connection Dialog

Once the connection is made, the program will automatically fetch the list of existing products on the database and present them to the user in a table view. Each element

shows a few fields of information, but the user can click on each element and all the information about the selected product will be displayed on the navigator on the left, labeled 'Product information'. Figure 3 shows the aspect of the program when a connection has been made and all the products from the database are being shown.

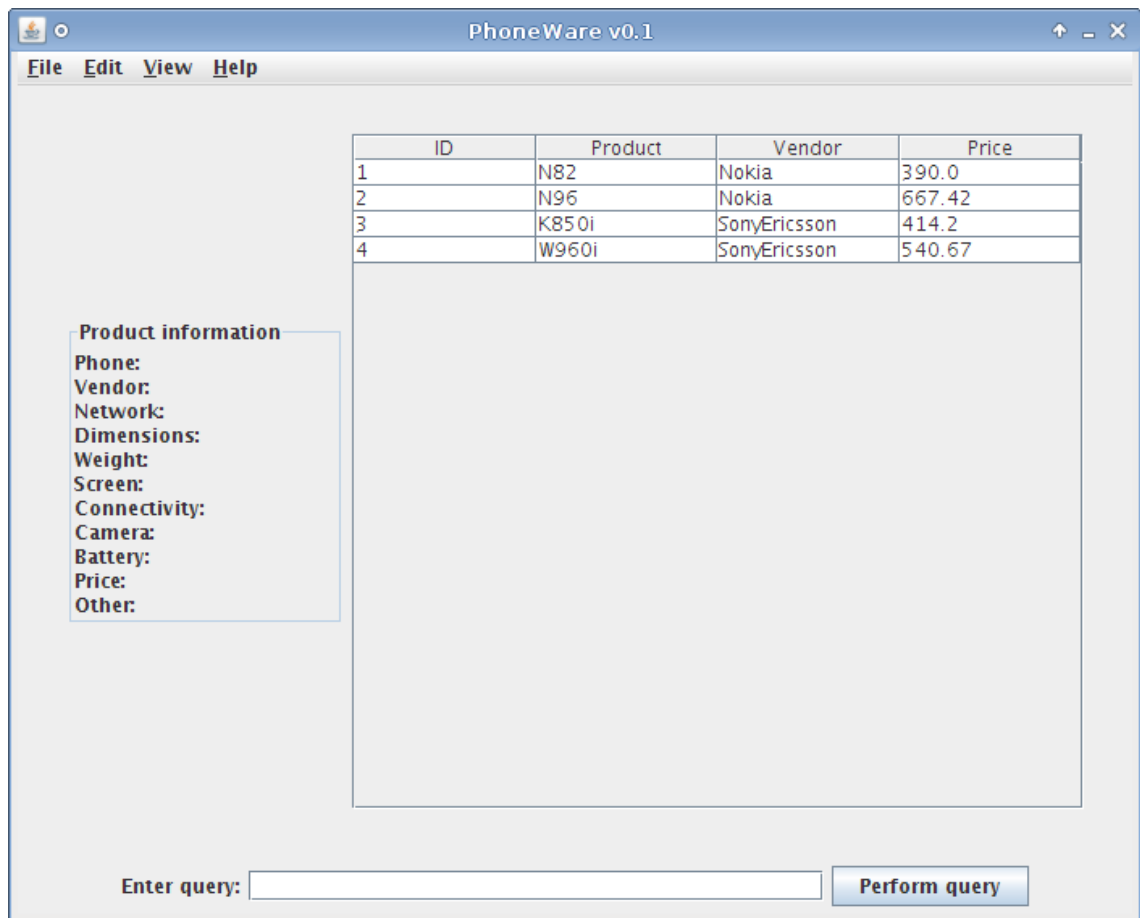


Figure 3: PhoneWare Products View

Similarly, you can see the complete list of orders that have been made for certain customers from the Orders View, which is selected from the menu 'View' and then selecting 'Orders'. Figure 4 depicts the orders view of PhonWare.

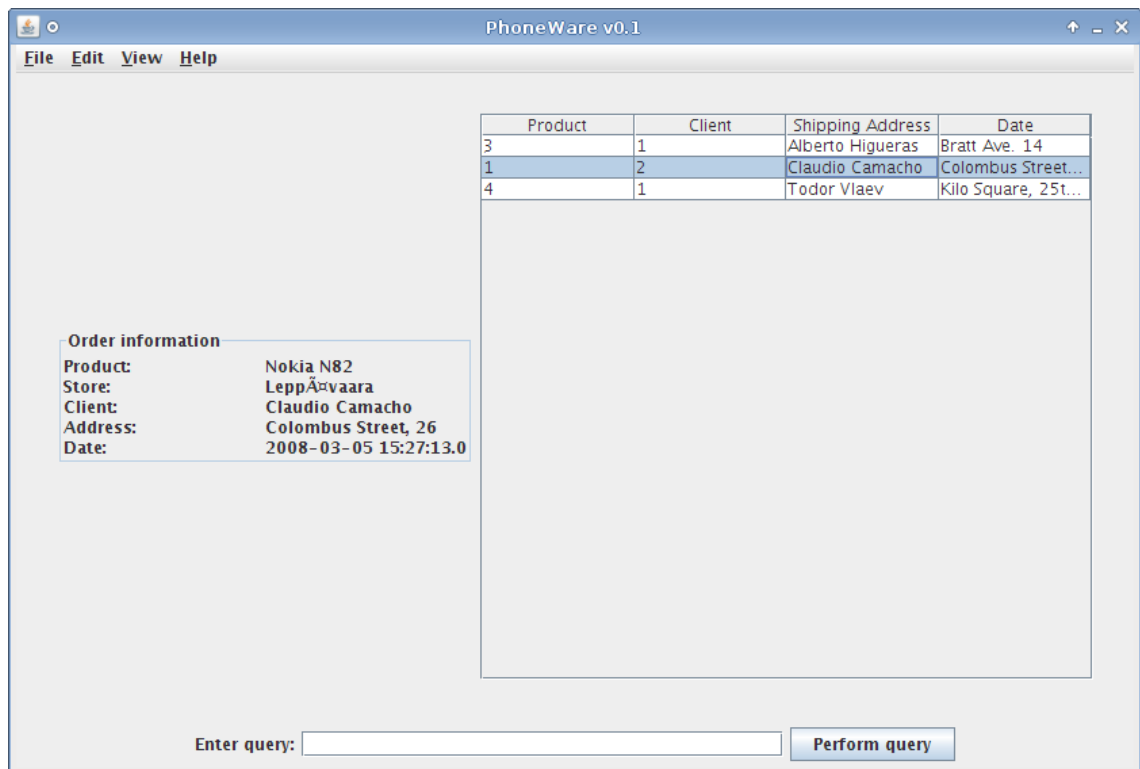
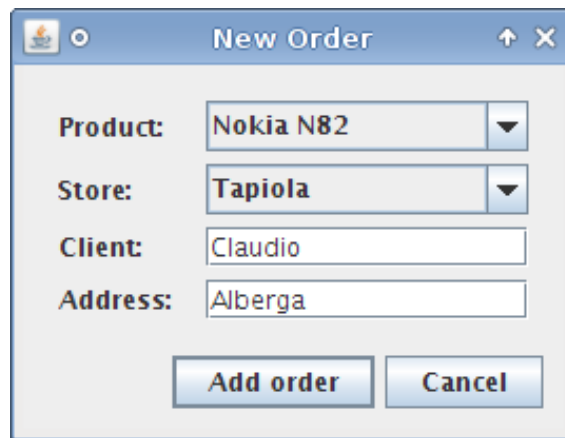


Figure 4: PhoneWare Orders View

As it can be seen from figure 4, when an order is explicitly selected by clicking on a row, PhoneWare will display all the additional information on the navigator pane on the left.

## 4 Adding and Removing Products and Orders

In order to add new products or new orders, you just have to click on 'Edit' and then select 'New product' or 'New order'. The program will automatically display the corresponding option according to the current view.



The image shows a 'New Order' dialog box with the following fields and values:

Field	Value
Product	Nokia N82
Store	Tapiola
Client	Claudio
Address	Alberga

Buttons: Add order, Cancel

Figure 5: PhoneWare Add Order Dialog

Figure 5 shows the look of an order when being added. Immediately after an order or a product has been added, the product will refresh the view and display the new information on the screen.

Moreover, PhoneWare makes sure that the user has entered the mandatory fields for the database, before a product or an order is added. This assures that the program will be stable and work with future additions.

## 5 Updating Information

Updating products or orders information is made directly through the table which presents the information. There, the user is able to edit any field of any row, and the program will automatically fetch the new information and update it in the database.

**NOTE:** Information edition is not implemented as of version 0.2 of PhoneWare. This feature has been delayed to version 0.2, due to some time limitations.

## 6 Manual Queries

PhoneWare introduces an interesting feature which allows advanced and experienced users to enter manual queries from a manual query text entry field. This field is situated at the bottom of the application and allows the user to enter any type of command in

SQL, which will be directly performed against the working database.

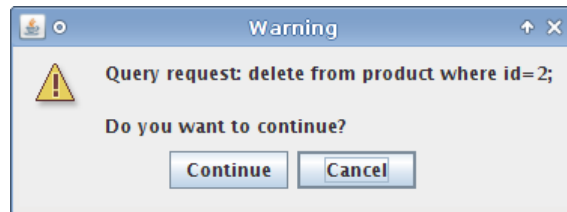


Figure 6: PhoneWare Manual Query Execution

Therefore, the user has full access to the whole database and can also mess it in any way. Please note that PhoneWare is not, in any case, aware of what the user is doing with the database. For that reason, PhoneWare will always ask the user for confirmation before performing a manual query. Figure 6 is an example of a question to the user before performing a manual query against the database.

## 7 Other Features

An extra feature which has not been discussed yet is information search as whole. Through the menu 'Edit', 'Find..' or 'Find next', the user is able to search for an information on the current view, just for adding some extra functionality to the basic one.

## 8 Copyright

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