

COMMISSION DOCUMENTATION

DOCUMENT VERSION: 1.0 / RELEASED 2013-06-19 / ID#1247

DOCUMENTATION AUTHORS: EMIL BERGWIK, VIKTOR LÖVGREN

1. INTRODUCTION

The commission system allows for communication between certain gunsmiths and salespersons. Gunsmiths can view their monthly production limits, prices and are also able to see the sales, profit and commission for each of the salespersons during a single month. Salespersons can communicate their sales during a month, and can easily view all of their recorded sales and the total commission given due to these sales.

2. SYSTEM DESCRIPTION

2.1 SOFTWARE ARCHITECTURE & IMPLEMENTATION DESCRIPTION

The Commission system is built around the 3-tier architecture with a presentation-, application- and data layer. The presentation layer presents the pure HTML web pages combined with some JavaScripts and jQuery objects that are served from the server in the client browser. The application layer consists of Java Servlets and Java Server Pages (JSP) that are responsible for presenting the user with application content upon request. In order to serve this content, the application layer utilizes a set of Data Access Objects (DAO) and Java Beans to fetch, update and insert content into the underlying data layer. This last layer, the data layer, consists of a MySQL database with a set of tables in which information about salespersons, gunsmiths, cities, gun parts as well as the sales and production of such is stored. A graphical representation of the architecture is shown in the figure below.

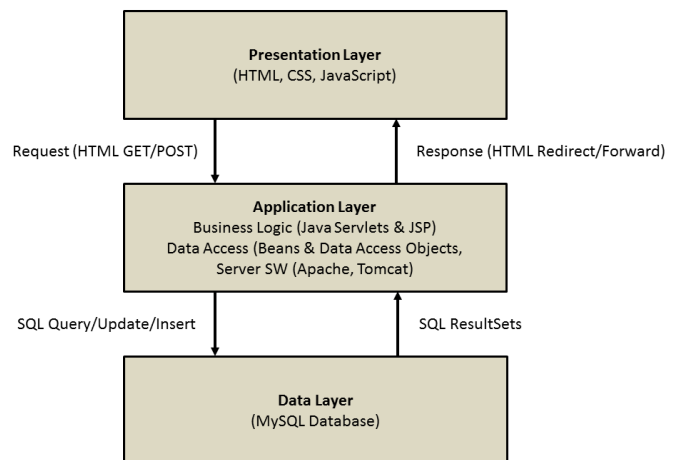


Figure 1 The 3-tiered architecture used in the commission web application.

2.2 ENVIRONMENT DESCRIPTION

The following prerequisites are required in order for the system to function properly. Instructions on how to install these prerequisites are not included here.

- Java JDK 6.0+ (<http://www.java.com>)
- Apache 2.4.3+ (<http://www.apache.org>)
- MySQL 5.5.27+ (<http://www.mysql.com>)
- Tomcat 7.0.30+ (<http://tomcat.apache.org>)

3. INSTALLATION GUIDE

1. Make sure that all prerequisites listed above have been installed correctly.
2. Create a new database in MySQL, using any desired name (default is "commissiondb").
3. Import the included "commissiondb.sql" to the newly created database. This will create the required structure of the database and populate the tables with some example data.
4. Make sure the database settings are correct for the system by modifying the "\WEB-INF\classes\Database.properties" file in the included "commission.war" file. The .war-file can be opened and altered by any popular archiver application, such as WinRAR.
5. Deploy the modified .war-file, with your database settings, to your Tomcat installation. This is usually done by storing the .war-file in the "/webapps" directory of your tomcat home.
6. Start your browser and navigate to your server address, append the name of the .war-file to the server address in order to run the application. For example, if your server adress is "localhost:8080" and the .war-file is named "commission.war", you would visit "http://localhost:8080/commission".

For example login information, please see the relevant imported tables in the database imported in step 3 above.

4. USER MANUAL

The application has support for two types of users, salespersons and gunsmiths. These users have similar, but not identical user interfaces when logged into the application.

4.1 GENERAL FUNCTIONS

4.1.1 LOGGING IN/OUT OF THE SYSTEM

Function Description

When first navigating to the commission web application or when logging out of the web application, a login view will be presented. To login, follow these instructions.

Function Instructions

1. Enter your user ID in the field labeled “User ID”.
2. Enter your password in the field labeled “Password”.
3. Choose your user type in the drop down menu.
4. Press sign in.

Function Notes

Providing the wrong user credentials in the above step will yield a warning message. If the web application fails to log you in because of a system error such as a failure in connecting to the database such an error message will be presented. In such a case, please contact the system administrator or try again at a later point in time.



Figure 2 The login window for the Commission web application.

4.2 USER-SPECIFIC FUNCTIONS

SALESPERSON

User description

A salesperson is a user that sells gun parts for gunsmiths. He or she receives commission based on his or her amount of sold items each month. A sale consist of a set of locks, stocks and barrels being sold at a given month and year, by a certain salesperson and directed towards a specific gunsmith. Each month the salesman will register one (and only one) sale for each of the cities he has visited and gunsmith he has sold items for.

REGISTERING A SALE

Function Description

At the end of the month, the salesperson can register any sales he or she has made by following these instructions.

Function Instructions

1. Open the browser and navigate to the commission website.
2. Log in with the credentials provided by the administrator.
3. In the navigation menu to the left on the screen, press the “New sale” menu link.
4. Choose the gunsmith you have sold items for in the drop down menu marked “Gunsmith”.
5. Choose the city you have sold your items in in the drop down menu marked “City”.

- Choose the time period for which the sale was issued using the date picker marked “Date”.
- Choose the amount of locks, stocks and barrels sold by entering their respective quantities.
- Press the “Submit sale” button. If everything went fine you will see a green verification field stating that the sale was submitted. A red verification field means that the sale was not submitted correctly. This could be because you already registered a sale for the chosen month, gunsmith and city or because of connection problems.

Function Notes

Pressing the “Clear fields” button will clear the sales form, restoring it to its original state. A sale is final in the sense that only one sale can be submitted for one gunsmith, city, date and salesperson.

Figure 3 The new sales page.

VIEWING YOUR SALES

Function Description

The salesperson can view his or her sales for a specific month by following these instructions.

Function Instructions

- Open the browser and navigate to the commission website.
- Log in with the credentials provided by the administrator.
- In the navigation menu to the left on the screen, press the “Sales” menu link.
- A tabular view is presented, grouping the salesperson’s sales by the items he has sold during the displayed month. Below each item table the total quantity and value of that item is presented. At the bottom of the page, the total quantity and value of all items are presented.
- Use the date picker labeled “Period” to change the month for which to display sales. By default, the current month is presented.

Date	Quantity	Value	Gunsmith	City
2013-06-01	1	45	Rick Ross	Toledo
2013-06-01	2	90	Thomas Ferguson	Orlando
2013-06-01	2	90	Thomas Ferguson	Toledo
2013-06-01	2	90	John Doe	Toledo

Total Value: \$315
Total Quantity: 7

Date	Quantity	Value	Gunsmith	City
2013-06-01	2	60	Rick Ross	Toledo

Figure 4 The sales display page for salespersons.

Function Notes

If the logged in salesperson has made no sales during the displayed month, a message will be displayed indicating this.

VIEWING YOUR COMMISSION

Function Description

The salesperson can view his or her commission to be paid (or which has been paid) for a specific month by following these instructions.

Function Instructions

1. Open the browser and navigate to the commission website.
2. Log in with the credentials provided by the administrator.
3. In the navigation menu to the left on the screen, press the “Commission” menu link.
4. A tabular view is presented, grouping the salesperson’s sales by the gunsmiths for which he has sold items during the presented month. Below each gunsmith table the total value of items sold and commission to be paid (or has been paid) for that gunsmith is presented.
5. Use the date picker labeled “Period” to change the month for which to display commission. By default, the current month is presented.

Commission Home About Contact Logged in as John Smith (Salesman) Log out

MENU
Home
New Sale
Sales
Commission

Commission

Currently displaying commission for June 2013. [View](#)

(200) Thomas Ferguson

Part ID	Gun Part	Quantity	Value
400	Lock	4	\$180
401	Stock	4	\$120
402	Barrel	5	\$125

Total Value: \$425
Commission: \$43

(201) John Doe

Part ID	Gun Part	Quantity	Value
400	Lock	2	\$90
401	Stock	1	\$30
402	Barrel	1	\$25

Figure 5 The commission display page for salespersons.

GUNSMITH

USER DESCRIPTION

A gunsmith is a user who produces gunparts to be sold. A gunsmith pays commission to the salespersons who sell items for him or her each month. The gunsmith has production limits and prices specified for each item that is sellable in the system.

VIEWING YOUR PRODUCTION INFORMATION

Function description

The gunsmith may use this function in order to view his or her products, production limits and prices for each items being sold.

Function Instructions

1. Open the browser and navigate to the commission website.
2. Log in with the credentials provided by the administrator.
3. In the navigation menu to the left on the screen, press the “Production” menu link.
4. A tabular view is presented to show the information on which items the gunsmith can produce, the item’s production limit as well as the price specified for the item.
5. If the information presented in the table needs to be changed somehow, contact the administrator.

Function Notes

The gunsmith’s production limits and prices directly affect the amount of sellable items and the salespersons commission. If the salesperson tries to sell more items than the specified gunsmith can produce (or already has produced that month for other sales), the system will refuse the sale.

VIEWING YOUR SALES

Function Description

The gunsmith can view his or her sales for a specific month by following these instructions.

Function Instructions

1. Open the browser and navigate to the commission website.
2. Log in with the credentials provided by the administrator.
3. In the navigation menu to the left on the screen, press the “Sales” menu link.
4. A table is presented, showing the items, quantities, values sold by salespersons in different cities for the displayed month.
5. Use the date picker labeled “Period” to change the month for which to display sales. By default, the current month is presented.

Commission

Home

About

Contact

Logged in as Thomas Ferguson (Gunsmith). Log out

Menu

Home

Sales

Production

Commission

Sales

Currently displaying sales for June 2013.

View

Date	Part	Quantity	Value	Salesman	City
2013-06-01	Stock	2	\$60	John Smith	Toledo
2013-06-01	Stock	2	\$60	John Smith	Orlando
2013-06-01	Barrel	1	\$25	John Smith	Toledo
2013-06-01	Barrel	4	\$100	John Smith	Orlando
2013-06-01	Lock	2	\$90	John Smith	Toledo
2013-06-01	Lock	2	\$90	John Smith	Orlando

Commission 2013

Figure 6 The sales display page for gunsmiths.

VIEWING YOUR COMMISSION PAYMENTS

Function Description

The gunsmith can view the commission payment obligations he or she has towards his salespersons each month by following these instructions.

Function Instructions

1. Open the browser and navigate to the commission website.
2. Log in with the credentials provided by the administrator.
3. In the navigation menu to the left on the screen, press the “Commission” menu link.
4. A tabular view is presented, showing the sales issued during the month, grouped on salesperson. Under each salespersons table, information is shown about the total value, commission to be paid (or that has been paid) as well as the profit gained from his or her sales. At the bottom of the page, a summary page is presented, showing how many items in total that has been sold for that month as well as the total value, commission and profit for this month.
5. Use the date picker labeled “Period” to change the month for which to display sales. By default, the current month is presented.

Commission Home About Contact Logged in as Thomas Ferguson (Gunsmith). Log out

MENU
Home
Sales
Production
Commission

Commission

Period: View

Currently displaying commission for June 2013.

(300) John Smith

Part ID	Gun Part	Quantity	Value
400	Lock	4	\$180
401	Stock	4	\$120
402	Barrell	5	\$125

Total Value: \$425
Commission: \$43
Profit: \$382

Summary

Part ID	Gun Part	Quantity	Value
400	Lock	4	\$180
401	Stock	4	\$120
402	Barrell	5	\$125

Figure 7 The commission display page for gunsmiths.