MAKERERE UNIVERSITY

COLLEGE OF COMPUTING AND

INFORMATION SCIENCES

**COURSE** BSE 2205 Network Applications Development

**LECTURER** ALEX MWOTIL

**GROUP L**

|  |  |  |  |
| --- | --- | --- | --- |
| NAME | | REGISTRATION NO. | STUDENT NO. |
| 1 | Amutuhaire Mujaidu | 17/U/11035/EVE | 217015236 |
| 2 | Kamasu Paul | 17/U/4521/EVE | 217017362 |
| 3 | Kiyingi Aloysious | 17/U/5344/PS | 217002946 |
| 4 | Kwizera Nicholas | 17/U/5536/PS | 217006601 |
| 5 | Wangota Felix Daniel | 17/U/10826/EVE | 217017403 |

**KAYENET BUSINESS SYSTEM**

# **INTRODUCTION**

The project is about a business Kayenet, which deals mainly in ladies’ bags with three distributed shops in Nakawa, Kawempe and Mengo, each with a sales person and one overall administrator. JSP together with other technologies are used to create accounts different account privileges the sales personnel and administrator use access the business logic.

# **METHODS OF DESIGN**

In this section, the various technologies used for implementing the system are described:

* + 1. **JSPs:**
* The system comprises mainly of JSP files which work in conjunction with HTML styled using CSS. HTML provides the basic tags for structuring the content of the various web-pages and JSPs provide content dynamically generated either from the database or from logical expressions.
* Under the JSPs, **Custom tag libraries** are used to enhance functionality through defining new tags to suit necessary functionality.
* Access to the JSP files was modified using the web-descriptor where simpler names were given to the files for easier access.

|  |  |
| --- | --- |
| **JSP Filename** | **Function** |
| accounts.jsp | This file displays general accounts details for the administrator allowing him to add and delete |
| admin-dash.jsp | This is the administrator dashboard |
| admin-display-sales-kaw.jsp | This displays the sales made by the kawempe shop |
| admin-display-sales-men.jsp | This displays the sales made by the mengo shop |
| admin-display-sales-nak.jsp | This displays the sales made by the nakawa shop |
| admin-sales.jsp | This displays the sales made by all the shops |
| create-account.jsp | This allows the admin to create sales people accounts |
| edit.jsp | This allows the sales person to modify the products in their shop |
| edit-single.jsp | This allows the sales person to modify a single product |
| login.jsp | This allows both the admin and sales personnel to login into the system |
| logout.jsp | This enables the administrator and sales personnel to |
| new.jsp | This allows the sales personnel to add new products |
| products.jsp | This displays all products from all shops |
| saleP-daily-sales.jsp | This displays the products sold in the same day for a shop |
| saleP-monthly-sales.jsp | This displays the products sold in the same month for a shop |
| saleP-weekly-sales.jsp | This displays the products sold in the same week for a shop |
| sales-all-products.jsp | This displays all products for a shop |
| sales-dash.jsp | This is the sales personnel dashboard |
| transact.jsp | This enables the sales personnel to sell a product |

**The table shows the different JSP files used**

* + 1. **MYSQL**
* In conjunction with JSP, MySQL technology was was used to connect to the database ***kayenet,*** which stores the schemas used for the system.
* Below are the schemas used and their fields

\* admin – A schema for the administrator details.

| No (This is the auto number field) | FirstName | LastName | Username | Password | PhoneNumber

\* sales\_person - A schema for the three sales personnel.

| No (This is the auto number field) | FirstName | LastName | Username | Password | PhoneNumber | Address | RefereeName | Branch

\* nak\_pdts – A schema that stores all bag inventory for the Nakawa shop

| No (This is the auto number field) | BagID | Name | Description | Image | Price | Quantity |

\* nak\_sales – A schema that stores all sales records for the Nakawa shop

|No (Autonumber field )| BagID | QuantitySold | Date\_Sold |

\* kaw\_pdts – A schema that stores all bag inventory for the Kawempe shop.

Has the same fields as nak\_pdts

\* kaw\_sales - A schema that stores all sales records for the Kawempe shop

Has the same fields as nak\_sales

\* men\_pdts - A schema that stores all bag inventory for the Mengo shop.

Has the same fields as nak\_pdts

\* men\_sales - A schema that stores all sales records for the Mengo shop

Has the same fields as nak\_sales

* + 1. **JAVA FILE**

The JSP file also interacts with java file, ***MD5,*** whose class file has an encryption function, ***getMD5(String S)*** that is used to encrypt the passwords for the various accounts.

# **CONCLUSION**

In conclusion, the above system designed is confirmed to perform optimally, with a user-friendly graphical interface, to suit the needs of the Kayenet business, providing accuracy and consistency in the various statistical data.

# **REFERENCES**

Falkner, J., & Jones, K. (2004). *Servlets and JavaServer Pages.* Pearson Education.

Hall, M. (n.d.). *Core Servlets and JavaServer Pages.* Prentice Hall and Microsystems.