

Mbegu System

V4.0

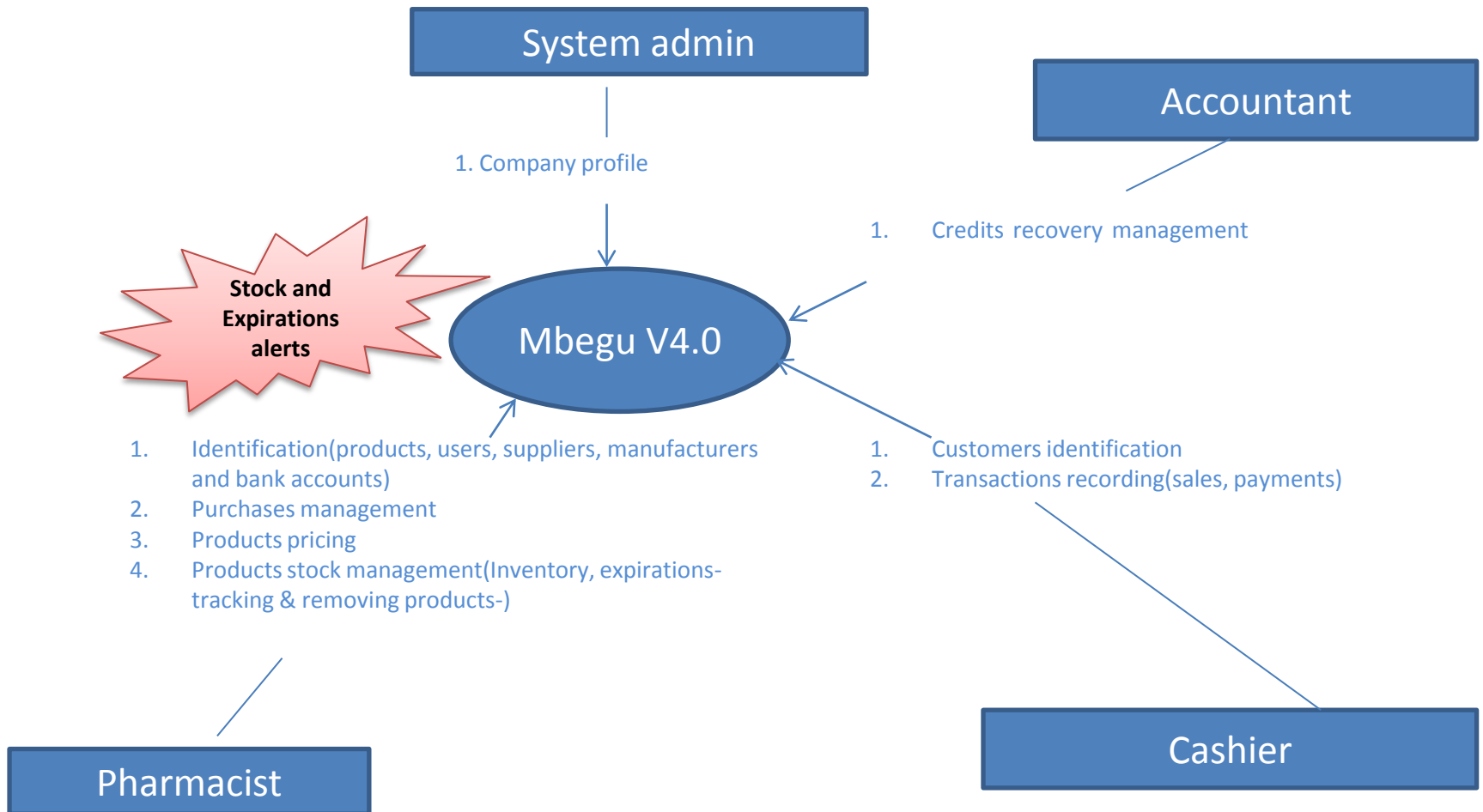
A. System description

Mbegu is a system designed for wholesalers as well as retailers in the management of their daily stock activity movements. Those activities include the products purchase and sales management, stock inventory management, and expirations management.

Mbegu is a web based application which has been developed in PHP and MySQL as the back-end.

B. System functions

- The main activities of the system are summarized in the following diagram



C. System modules

The activities specified above are grouped into the following modules:

- **Identification module:** where all the system parameters are set(products, customers, suppliers, prices, company profile,...)
- **Transactions management:** Where purchases and sales operations are recorded
- **Stock management:** products stock tracking(inventory, expirations,...)
- **Accounting module:** Customers credits management(recovery)
- **Reporting module:** Each report needed from the system can be found here
- **Customer loyalty module:** This is for customer transactions tracking

D. System requirements

- **Hardware Interface**

- *Server side:*

- This web application has to be hosted on a web server which is listening on the web standard port, port 80.

- *Client side*

- Monitor screen – the software shall display information to the user via the monitor screen
 - Mouse – the software shall interact with the movement of the mouse and the mouse buttons. The mouse shall activate areas for data input, command buttons and select options from menus.
 - Keyboard – the software shall interact with the keystrokes of the keyboard. The keyboard will input data into the active area of the software interface.

- **Software Interface**

- *Server side*

- An Apache web server accepts all requests from the client and forward it accordingly. A database is hosted centrally using MySQL.

- *Client side*

- An OS which is capable of running a modern web browser which supports JavaScript and HTML5.

- **Communication Interfaces**

The system uses the HTTP or HTTPS protocol(s) to facilitate communication between the client and server.

- **Memory Constraints**

Memory constraints will come into play when the size of MySQL grows to a considerable size.

- **Operations**

The product has the option to make a regular database backup to prevent data from being corrupted or accidentally altered during a system failure.