**Use-Case Specification: Search material**

1. Search material
   1. Brief Description

This use case diagram describes the procedure of a staff using the system to search for materials in stock.

Primary actor: Staff

1. Flow of Events
   1. Basic Flows

1/ Staff chooses “Search material”

The use case started when the staff chooses the tab “Stock”, the system displays a list of materials in stock, the staff selects the search icon in the right of the search box without typing any word into the search box.

2/ Staff chooses search method & input search phrases

The system displays a dialog, shows various search options. The staff chooses one of the search options for each search box he/she uses, then input the data into that search boxes (maximum 3 search boxes), then confirm his/her choices by pressing “Search”

3/ The system displays search results

The system searches the database for the matching results, then shows results on the screen.

* 1. Alternative Flows

A1/ Quit / Logout

At any time, the system will allow the staff to quit or log out. If he/she chooses to quit, the use-case ends immediately.

A2/ No data input

In the 2nd step of the basic flow, if the staff doesn’t input anything into the search box, the system displays all book in the database & the use case ends.

A3/ Server unavailable

At any time, the system may lose connection to the server, the staff can choose to reconnect or to quit. If the staff chooses to quit, the use case end. If the staff chooses to reconnect, the system will reconnect to the sever, if success, continue, otherwise retry this step.

A4/ Staff types somethings into the search box before pressing the search icon

In the 1st step of the basic flow, when the staff types somethings into the search box then presses the search icon, the system searches for any material with that name, then displays the search result on the screen

1. Key Scenario

1/ Advanced search: Basic flow

2/ Basic search: Basic flow, A4

3/ No data inputs: Basic flow, A2

4/ Server unavailable: Basic flow, A3

1. Preconditions

Staff is logged on

The system is connected to the server

1. Postconditions

Success condition: A search result is displayed in the screen.

Failure condition: No search result is displayed in the screen