



## Question 1

Not yet answered

Marked out of 1.00

Using **MVC2 Model with Servlet/Filter as Controller** to build the web application following requirement.

The database name is **PracticalTest** that contains **many kite (con điều) types**. The kite data are stored into tables name as **tbl\_Kite**. Its structure has been specified below:

Field Name	Type
<b>id</b>	varchar (10) – Primary Key
name	nvarchar (20) – Not null (ex: điều nàng tiên cá, điều cá mập, điều phượng hoàng ba đuôi, ...)
size	nvarchar (5) – Not null (ex: nhỏ, trung, to)
color	nvarchar (20) – Not null
level	nvarchar(20) – Not null (ex: người mới chơi, người chơi chuyên nghiệp, ...)
outline	int – not null (ex: 3, 4)
status	bit (1: available, 0: out of stock)
quantity	int – not null
price	float – not null

The Application must be authenticated (using **userId and password, role field**) to identity staff that can be accessed the application in **tbl\_User** describing below

Field Name	Type
<b>userId</b>	varchar (20) – <b>Primary Key</b>
password	int – Not null
fullName	varchar (50) – Not null
role	bit – 1 as staff

The distributed application should allow to user to do the following activities

- **Search Kite function** is used to search kite **that kite's name is contained substring inputted from users and its status must be an available** in DB. The search Kite function **must be typed following signature**

**public int searchKiteName(String searchValue)** with **int** return type as number row of result

- **Update Kite information function** function is used **to modify selected Kite's price, quantity and status in DB**. The **update kite information** function **must be typed following signature**

**public boolean updateKiteSale(String id, int quantity, double price, boolean status)** with **boolean** return result of changing fail or success

### **Functional requirements**

- The Application must **be authenticated to identity** (using **userId, password, and role** field in **tbl\_User**) the **staff** that his/her account can be accessed the application

+ The **login page** must be named **login.html**

+ The signature of checklogin must be type as following sentence

**public boolean checkLogin(String username, String password, boolean role)**

+ **Label "Login Page"** must be put into **h1** tag

+ **Two text boxes** in login form must be named as **txtUsername** and **txtPassword** that is similar to **userId** and **password** that inputted from users

+ **Login button** must be named as **btAction** with label **Login**

- If the **user is staff** that authenticated in **tbl\_User**,

o The search page will be **shown (the page must be named as search.jsp)**

o **Otherwise**, the **error page** is shown (error page must be named **invalid.html**)

- In the **search page**,

o **Label "Search Kite"** must be **put into h1** tag

o The data grid of search result is shown with **No., name, size, color, level, outline, status - checkbox for updating, quantity - text field for updating , price - text field for updating and "Update Kite" button**

o The **"Update Kite" button** at the **end of each row** is used to **update kite information of selected row** in GUI

- After update function is succeeded, the data grid of the page **must be refreshed**

### • **Notes**

- **Student design the application's pages himself/herself**

- The application must be built on **MVC2 using Servlet/Filter as Controller. The EL combining with JSTL must be used to display information on JSP**. Besides, **the DB connection must be used Data Source**.

- The application must be organized to **modularization as recommended in the template project**.
- All fields **must be validation in process**
- The DB, functions must **obey the following requirement** (if you do not obey the requirement, you will get 0 mark)
- **Do not copy anything** from other projects, or other source code, or cheating. You will get 0 mark.
- All package name in project must be used prefix with **your brief full name (ex: khanhkt)**. Then you need create package **tblKite**, you must create package as **khanhkt.tblKite**. You will get 0 mark if you don't do it.
- Template project should be downloaded <https://lms-hcmuni.fpt.edu.vn/pluginfile.php/5991/question/questiontext/886879/1/111073/TemplateProjectPractical.zip>

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