Ouestion 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 diều) types. The kite data are stored into tables name as **tbl_Kite.** Its structure has been specified below:

Field Name	Туре
<u>id</u>	varchar (10) – Primary Key
name	nvarchar (20) – Not null (ex: diều nàng tiên cá, diều cá mập, diều 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	Туре
userId	varchar (20) – Primary Key
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

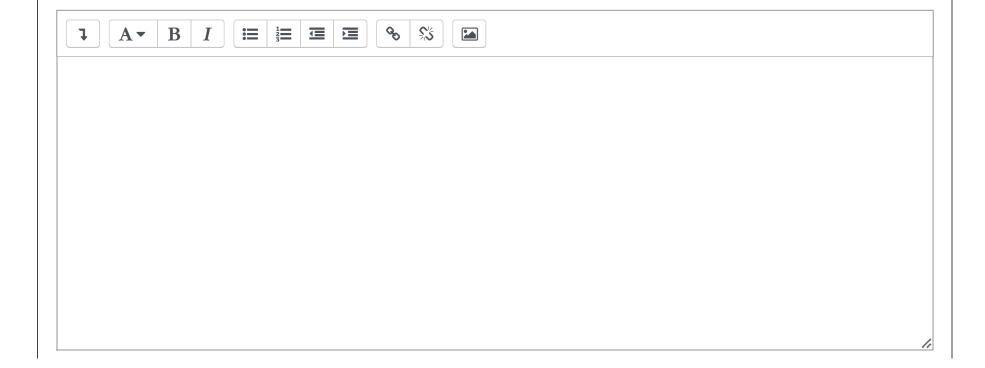
Functional requirements

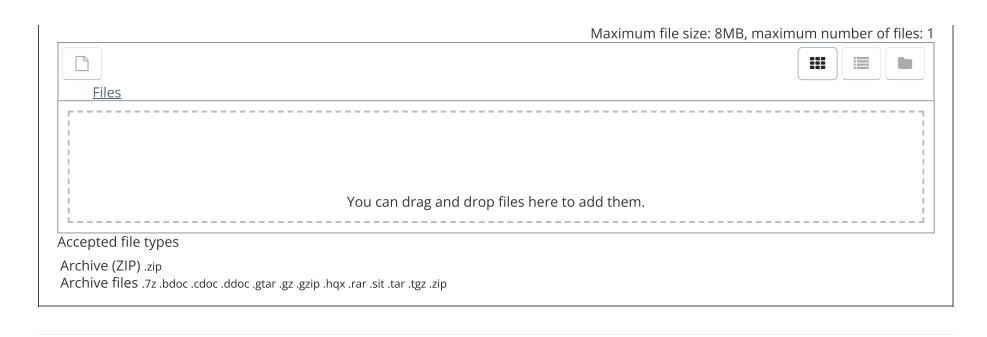
- The Application must **be authenticated to identity** (**using userId, password, and role field in tbl_User**) the **staff** that his/her account can be accessed the application
 - + The login page must be named login.html
 - + The signature of checklogin must be type as following sentence

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-bcmuni.fpt.edu.vn/pluginfile.php/5991/question/questiontext/886879/1/111073/TemplateProjectPractical.zip





«