

## Practical Test

The details of the computer of an organization are stored in the database in the tabular format. The name of the table is **tblProducts**. The table stored the data of the foods with the following structure.

Database : **ProductManagement**

| Field Name  | Type                  | Validation              |
|-------------|-----------------------|-------------------------|
| productID   | Char(5) (Primary Key) | Not null, format: C-XXX |
| name        | Varchar(50)           | Not empty               |
| description | Varchar(500)          | Not empty               |
| price       | Float                 | Numeric                 |
| cpu         | Float                 | Numeric                 |
| status      | Bit                   | Bit                     |
| createDate  | Datetime              | Datetime                |
| updateDate  | Datetime              | Datetime                |

Create a Java web application, which can be used to manage the computer catalog. The application initially displays a menu with the following options:

1. Add new product.
  - a. Status has default value is true. ( not show on the insert screen)
  - b. The current time is automatically filled to createDate(**0.5**)
  - c. Data must validate before insert to database. (**1**)
  - d. Insert new product. (**1.5**)
2. Search product by **name and product status is available**. If the application finds a match:
  - The data grid of product is shown with no, name, price, cpu, description, createDate, updateDate.( **1,5**)
  - The list product available will be shown in data grid with “Delete” link in each row. Delete product is mean update status= false. After activity is succeeded, the data grid of the page must be refreshed( **2**)
  - Update product: user can update product’s information( not update createDate). After activity is succeeded, the data grid of the page must be refreshed( **2**)
  - If adding search condition: product status: combo box( Deleted/ Available): (**1.5**)

Must:

- Using MVC2 model
- Following java coding conventions: function name, OOP style, variable names,...
- - 0.5 point for each mistake.