Practical Exam: PRJ301

Time:

Database : FoodManagement

The details of the Food of an organization are stored in the database in the tabular format.

User table tblUsers:

|  |  |  |
| --- | --- | --- |
| Field Name | Type | Validation |
| userID | varchar(50) (Primary Key) | Not null |
| fullName | nvarchar(500) | Not null |
| roleID | char(2) | Not null |
| password | Varchar(5) | Not null |

Food table tblFoods:

|  |  |  |
| --- | --- | --- |
| Field Name | Type | Validation |
| id | Char(5) (Primary Key) | Not null, format: F-XXX |
| name | nvarchar(50) | Not null |
| description | nvarchar(500) | Not null |
| price | Float | Numberic |
| cookingTime | int | int |
| status | Bit | Bit |

Create a Java web application, which can be used to manage the Food. The application initially displays a with the following function:

1. Login to manage food:
   1. On login.jsp page, user enters userID and password.
   2. The system will check if the userID with the password is correct, then grant the access permission and go to admin.jsp page. If not, the system will show the message” Incorrect UserID or Password” on login.jsp page. **( 2points)**
   3. On admin.jsp page need show welcomes the fullName of login user. **(0.5 point)**
   4. On admin.jsp page need has a Logout function. **(1.5 points)**
2. Add new Food.
   1. On admin.jsp page show the form to create new food.**( 1point)**
   2. Status has default value is true. ( not show on the insert screen)
   3. The current time is automatically filled to createDate**(0.5 point)**
   4. Data must validate before insert to database. **(0.5 point)**
   5. Show corresponding errors if validation is not satisfied**( 1 point)**
      1. Ínsert new Food and show the corresponding notify. **(2 points))**
3. Authentication:
   1. Authentication and authorization functions: to use the functions on the admin.jsp page, the user is required to log into the system with the “AD” role.**(1 point)**

Must:

* Using MVC2 model with MainController
* Following java coding conventions: function name, OOP style, variable names,...