tbl_User

UserId	UserName	Role	LastLogin	FName	LName	Department	DOJ	MgrId	Seniority	EmpCode
105	Acc0185	A/C Mgr	2020-08-23 14:25:34	Sanjay	agarwal	Accounts	2018-05-20	78	5.08	ACC0034
106	Acc0567	Asst.	NULL	Amit	Sharma	Accounts	2020-09-16	105	8.15	ACC0598
428	Dev0476	VP	2020-09-19 10:45:12	Lokesh	Kumar	Development	2018-22-12		1.05	DEV0833
568	ADM6633	Exec	NULL	Naresh		Admin	2011-06-06	70	9.01	ADM0048

Refer to the above table ('tbl_User'). Other details related above table are:-

- UserId(Primary Key), Username, EmpCode are unique fields
- Assume Role and Department values to be fixed values or use values as given above
- Seniority field values range from 0(highest) to 9.99(lowest)
- EmpCode field will contain unique values in following format (XXX9999). Where first 3 characters are alphabets in uppercase and last 4 characters are digits.
- There is no need to develop entry screen for above table. Data in above table may be entered manually or assumed to be there.

You are required to develop two screens (Search Parameters Entry & Search Form) using JavaScript/Jquery, Asp.net/Asp.net MVC and SQL Server

Search Parameters Entry Screen

Implement search parameters entry screen with following requirements

- Create an UI along with required validations in JavaScript/Jquery.
- Create entry screen with following fields
    - Username (Mandatory): This field is required because Search parameters will be saved user wise.
    - Fieldname (Mandatory)
    - Datatype (Mandatory): data type of field like numeric, float, datatime, string etc.
    - ControlType (Mandatory): This field specifies type of control like textbox, dropdownlist, numeric textbox, datetime field etc.
    - Constraint (Mandatory): This field will specify whether Search parameter field is mandatory or optional
    - MaxLength (Optional): max. field length if required
    - Min. Limit (Optional): min. value limit if required
    - Max. Limit (Optional): max value limit if required

- o MaskPattern (Optional): This field can be used to define input entry pattern/ RegEx pattern for a particular field. For example, it may be used to define this pattern (XXX9999) for 'EmpCode' field. Where first 3 characters are alphabets in uppercase and last 4 characters are digits.
- You are required to enter data for minimum 3 fields (choose any fields) and save all the search parameters as JSON collection into the database for each user in a single row. You may name this table as 'tbl_SearchParameters'. You may generate table structure for this table as per requirement.

Search Page

In Search page, Search option is to be provided to user to search data from 'tbl_User' table. Details are given as below:-

- Based on Username provided by user, you have to dynamically generate UI for search fields from the Search parameters JSON saved in 'tbl_SearchParameters' table.
- Implement all the constraints and validations defined in Search parameters JSON using JavaScript/jquery.
- Develop stored procedure for Search inputs provided by user and show the results in grid/table format.