**Technical Exercise**

**Instructions:**

1. Setup a MS SQL Server Express database on your local machine. Create the database structure using the MS SQL scripts provided (EMPLOYEE scripts.sql). - Done
2. On the main screen, add a listing of all active employees.
3. On the main screen, add an ‘Add Employee’ link that takes the user to a new screen.
4. On the new ‘Add Employee’ screen, create a form that allows the user to add a new employee.
   * Implement **server-side** validation to ensure that a value is entered for each field.
     1. Employee Type
     2. First Name
     3. Last Name
     4. Email Address
     5. Phone Number
   * Once the employee record has been successfully added, the user should be returned to the main screen. A message should be displayed to the user notifying them that the employee has been successfully added.

**Note:** The form does not have to be pretty, just functional.

1. On the main screen, add a search form to search for employees.
   * Users should be able to enter the following search criteria to find employees:
     1. Employee Type
     2. First Name
     3. Last Name
     4. Email Address (email addresses that *begins with* the value the user entered)
     5. Phone Number
   * Display the search results (all of the fields mentioned above) on the main screen in tabular form.

**Note:** The results do not have to be pretty.

1. Enhance the search results by allowing the user to click on an employee which will take the user to a screen that contains a form with the employee’s information pre-populated.
   * The user should be able to update the employee’s information from that form, including ‘deleting’ the employee.
   * Once the employee record has been successfully updated, the user should be returned to the main screen. A message should be displayed to the user notifying them that the employee has been successfully updated.  
       
     **Note:** Deleting an employee should only mark the record as inactive in the database and not actually delete the record.
2. Within the search results on the main screen, format the phone numbers as: **(xxx) xxx-xxxx**
3. Add a search filter that allows the user to search for employees that have ***at least X sick days*** in the current year.  
    **Note:** You will need to use the EMPLOYEE\_SICKDAY table.
4. Add a search filter that allows the user to search for employees that have *at least X sick days* in a given date range that is also entered by the user.