Programming Interview Exercise

To facilitate a walkthrough of code as part of the technical portion of the interview process, we would like you to create an application with user interface according to the following specifications:

Develop a demonstration application to collect data for a technical support request system and list valid technical support requests that have been submitted. When valid, the support request data should be stored in a file or database and displayed in a list of support requests.

1) Create a form (Technical Request Form) to collect the following:
    a. Requestor Email Address
    b. Request Description (limit 1000 characters)
    c. Request Due Date
2) Create a submit button on the form to submit the collected data for validation.
    a. It is your choice if you want to do some validation as the data is entered.
3) Validate the data entered
    a. Email address should be in a valid email address format.
        i. Email address validation can be complicated; simple demonstration validation is fine for this exercise. (e.g. you can check for the existence of an @ sign and check minimum and maximum length of the string).
        ii. When not valid display a message like "Invalid email address"
    b. Request Description should be at least 100 characters in length and no more than 1000 characters.
        i. When not valid display a message that indicates if the content is too short or too long.
    c. Request Due Date should be a valid date in the future no more than 1 year from the current date.
        i. When not valid display a message that indicates the issue with the date. (e.g. "Date is not a valid date" or "Date is too far in the future. The request due date cannot be more than a year from today.")
4) When the data entered is valid, write it to a file or database. This implementation will be up to you.
5) Create another form (Technical Request List) to display the list of valid requests.
    a. Read the requests from the file or database.
    b. Order these requests by earliest due date.

Expectations:

The expectation is that this will take a few hours. We ask that you make the project source code accessible to us via an internet-based code repository or by internet file share (Google Drive, Sharepoint, Microsoft Teams, etc.) Be prepared to demonstrate your application through a screen share or prepared screen shots and code walkthrough. Please include any setup instructions to build/run your application locally. Please avoid using any custom controls or components that are not free/open source or require special licensing. We hope that you have fun with this exercise and look forward to reviewing your work.