Screening format

We are looking for a candidate who is having hands on programming knowledge. During the interview session its time consuming to ask candidate to write a code snippet and question on that. Instead to save time and to be fair with candidate we want him/her to be prepared with simple basic application. The application should be in working condition and during interview we can review the coding style, best practices and question the candidate.

Below are the details for the application we want to be developed:

**Technology Stack** (Best if followed else use as per candidate's knowledge):

1. Angular (Latest if possible else it is okay as per candidate's experience)
2. HTML/CSS/Bootstrap (Bootstrap is optional but should have basic understanding of layout and responsive design)
3. .Net Web API
4. Entity Framework/Similar ORM framework (latest/known version)
5. MSSQL Server/Any database candidates know

**Functionality:**

Inventory management system 

1. Login screen:   
   - User should be able to login using predefined username and password.
2. List of Inventory screen:   
   - User should be able to navigate to this screen only after successful login.

- Below details will be displayed to the user

a. Create Inventory button:

- By clicking on this button user should navigate to Create/Update Product screen

* 1. List of Inventory:   
     Table containing below fields will be displayed   
     1. Name – Name of the product (Max 50 characters)  
     2. Price – Price in USD   
     3. Quantity – Amount of Product in stock  
     4. Created Date – Date when this Product is created.  
     5. Action - Button Update     
         When user clicks on Update user should navigate to Update screen and able to update the record.

Create Inventory

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of Product | Price (USD) | Quantity | Created Date | Action |
| P1 |  |  |  | Update |
| P2 |  |  |  | Update |

1. Add/Update Product screen:

|  |
| --- |
| **Add/Update Product screen:**  Name : Price :  Quantity  Clear  Submit |

   User should be able to enter the product details with below fields

* 1. Name - (Mandatory) Text field not more than 50 characters
  2. Price - (Mandatory) Input field for user to enter Price (Number only)
  3. Quantity – (Mandatory) Input field for user to enter Quantity (Number only)
  4. Submit - Button to submit the form    
          - After user clicks on submit a form should be validated, display error message if any conditions not matching   
          - Only after form validation is complete record should be added to the Inventory Table and success or failure message needs to be displayed.   
          - After success user needs to navigate back to the Inventory List screen and user should be able to view the newly created/updated product.
  5. Clear - Button to clear the form.

4. Web API & backend - Up to candidate to design or add in functionality based on the above requirements.   
 

**Note:** The purpose is not to evaluate candidate's capabilities, but we will be focusing more on the coding style, best practices, reusability/optimizations considerations, thought process etc.