

# SOFTWARE PROGRAMMING TEST

*This test will be set for an overnight period – this should take around 2 hours to complete – depending on prior knowledge. Please upload the solution into an accessible code repository (e.g. GitHub) the following day as indicated.*

*Please use a suitable frontend technology that is part of or compliments the .NET stack. You are required to develop using C#.NET where appropriate; a pure front-end solution will not be accepted.*

Please write a simple application using the brief below. Do not worry if you do not complete the application fully.

## **Brief:**

The application's purpose is to allow entry and editing of customer details. It should consist of an initial window/page which shows a read-only list or grid of current customers.

This display should have buttons to Add or Edit a customer record.

When the user presses the Add button a modal dialog window/page should be displayed with the customer details on it using appropriate controls. This display should have OK and Cancel buttons. If the user presses OK, then the new customer should be added to the list. The OK button should not be enabled if the validation rules have not been met.

When the user presses Edit the same customer details dialog/page should appear with the details of the customer that is currently selected in the list or grid.

The list of customer objects should simply be held in memory for the lifetime of the application. It does not need to be persisted.

Please use appropriate approaches to suit the chosen technology and design patterns where appropriate.

Please add validation to validate the user input on the Add/Edit dialog.

The customer object should have the following properties:

Property Name	Type	Validation
Name	String	Less than or equal to 50 characters
Age	Int	0 to 110
Post code	String	Must contain numbers and characters
Height (meters)	Double	0 to 2.50. Only 2 decimal places

**As a final step, please add no more than single page of documentation to cover off the following information:**

- 1. Choice of frontend technology**
- 2. Design decisions taken**
- 3. Any issues found**
- 4. What would be your next steps to further improve your work?**