



Silverstone Software Technical Test

Introduction

Your task is to build a web application which allows a user to enter a location and view current weather information about that area, with optional tasks to include storing previously searched locations.

The aim of this test is to indicate capability in .NET MVC, software design, and development. There isn't a strict time limit to build the app, but an indication of how long it took you to code the solution would be appreciated.

Once completed, please commit your solution to a public repo like GitHub and send the link to info@silverstonesoftware.co.uk.

Any problems or queries, feel free to email us on info@silverstonesoftware.co.uk.

Acceptance Criteria

- A compiling application which when the homepage loads, the user can see a text box to enter a location
- Entering an invalid location should show a suitable error message
- Entering a valid location should show weather information about that location
- The information shown about a location should include the following elements if available from your chosen API
 - o Location name
 - o Temperature
 - Current
 - Minimum
 - Maximum
 - o Humidity
 - o Sunrise
 - o Sunset

Assumptions

- The provided solution will be a .NET MVC web application which will be used to contact a weather API of your choice
- Loosely coupled
- Able to show SOLID principles at work, where relevant
- **OPTIONAL:** Add persistence to store and show previously searched locations in the same format as a newly searched location
 - o Persistence options could include the following
 - Local database
 - In memory list
 - In session list
- **OPTIONAL:** Unit tests where relevant
- **OPTIONAL:** Integration tests where relevant

Notes

Example weather APIs

- <https://openweathermap.org/api>
- <https://www.weatherapi.com/>