*All these tasks are optional, and we don’t expect anyone to spend longer than a couple of hours on these tasks so there’s no expectation to complete them all. If you don’t have much time, you could just add some comments of what you would do if you had time. You could even use notepad just to plan out your methods if you don’t have VS installed. Your solution does not need to compile or work to be useful in the interview.*

*For the solution to run successfully it will require a local instance of SQL Express running. If you are unable to get the solution running that’s fine, as above, please feel free to write comments or the code you think is required.*

<https://www.microsoft.com/en-gb/sql-server/sql-server-editions-express>

**

*If you don’t have time to complete these tasks we will, instead, discuss some existing code from our code base.*

*Feel free to add as many classes/references you like and/or new projects if you want. The overall goal of these tasks is to see how you layout the code, how many methods/functions etc…*

*The EF context EF/DocumentsContext.cs has already been provided and contains the entities DocumentType and Site needed for these tasks.*

*Please run the ‘Package Manager Console’ command:*

***update-package -reinstall***

*Now please run the ‘Package Manager Console’ command (this will create the simple db needed for the tasks):*

***update-database***

Task 1

Replace the default example Core home page with a welcome page with the text ‘Welcome to Meridian’ somewhere prominent.

Please also include this logo somewhere:



And the copy:

*“We are a consultancy specialising in the provision of bespoke property related health and safety risk management solutions across all business sectors.*

*A client-centric focus, close engagement, exceptional people and robust and consistent quality assurance underpin our service delivery.*

*Our auditing, consulting, training and data management services are aimed at ensuring that all of your health and safety obligations are pro-actively managed, and will provide you with the tools to sustain a market-leading position in this important area.*

*The Online Software Meridian’s key features:*

* *‘dashboard’ of compliance – configurable and dynamic*
* *customised management reports – executive and operational*
* *document upload and storage – including photographs, schematics, certificates*
* *event tracking- periodic assessments, audits, inspections*
* *action management – against prioritised action plans*
* *tracking of inspections for individual plant items*
* *compliance benchmarking – against specific KPIs*
* *performance monitoring -group, regional, client, portfolio, staff*
* *date-stamped audit trail and due diligence archive*
* *email escalations, notifications and alerts*
* *controlled access and authorisations for staff and third party partners*
* *ability to export data to Excel in a single click*
* *integrated modules*
* *accident and incident reporting*
* *contractor management*
* *e-permits*
* *inspection forms*
* *environmental monitoring*
* *ISO compliance tracking”*

Task 2

Add 2 links to the welcome page:

‘Add a Document Type’

‘Edit an existing Document Type’

Task 3

Create a new page for the ‘Add a Document Type’ link. This page should contain a textbox and a save button to allow users to create a new document type record.

Please include this logo, somewhere on this page:



Task 4

Create a new page for the ‘Edit an existing Document Type’ link. This page should contain a view of all the existing document types with the ability to edit a document type, either on that page or via the page created in task 3 above.

Please include this logo, somewhere on this page:



Task 5

Repeat the above tasks 2 to 4 for the Site entity and include the ability to edit the site name and also the site code as well.

Stretch - Task 6

A User needs to be able to select which Document Types are applicable\* for each Site.

A User must first be able to select a Site then once viewing a Site a User must be able to select any number of Document Types to be applicable/associated with a Site and save that information. A User should be able to view the existing Document Types associated with a Site and edit the existing Document Types associated with a Site.

\**for example, an applicable Document Type might be ‘Health and Safety Risk Assessment’ so if the Document Type was applicable that would mean that Site periodically requires a ‘Health and Safety Risk Assessment’ survey to be carried out at that Site.*

Stretch - Task 7

Move the EF data access logic and migrations into a separate project. Attach any further migrations needed to complete this coding task to the newly created project.