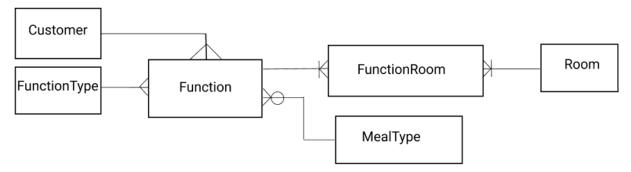
F2023

v 1.0

Instructions

Continue with the ASP.NET Core MVC Catering Management application from Parts 2A & B.



1. For <u>both</u> the **Function** and **Customer**:

- a. (5 Marks) Add Paging on the Index View with the option that the user can change the number of records displayed on a page.
 - i. User preference for Page Size must be remembered for each Index View separately.
- b. (10 Marks) Persist any Filter, Sort and Paging parameters for each Index View as the User navigates to Create, Update, Details and Delete and back to the Index.
- c. (5 Marks) Add Auditing to automatically maintain the four basic audit fields.
 - i. Use an Interface such as IAuditable to define the properties for Auditing.
 - ii. To audit who created or last edited a record, use the Identity of the Authenticated User if it is available.

2. For **Function** Only:

- a. (10 Marks) Add Concurrency Control for Edit Operations:
 - i. Use a Timestamp (RowVersion) to detect changes made to a record for Optimistic Concurrency Control.
 - ii. If there is a concurrency conflict, give as much feedback as possible to the user, showing the differences between the User's version of the record and what is in the database.
 - iii. Since we are using sqLite you will need to supply triggers to generate random BLOB values for the RowVersion on both Insert and Update.

Submit your work for Parts 2A, 2B and 2C together in one project.

As you submit to Blackboard, **you must enter comments describing how far you got** on the assigned work. Failure to describe the completeness of your submission will result in marks being deducted.