1. What method is used to get and display requested data?

OnGetAsync

1. What method is used to save changes to the data?

SaveChangesAsync

1. Briefly describe the difference between FirstOrDefaultAsync and SingleOrDefaultAsync when retrieving data.

FirstOrDefaultAsync is more efficient then SingleOrDefaultAsync at fetching one entity. SingleOrDefaultAsync fetches more data and does unnecessary work.

1. When is FindAsync not a good alternative to FirstOrDefaultAsync and SingleOrDefaultAsync?

FindAsynce finds by the primary key and it is simple and consise.

1. By default, how is the student id passed to the Details page?

A query string

1. Adding "{id:int}" to the @page directive allows the student id to be passed as \_\_\_\_\_\_ instead of a query string?

@page

1. Why is it not a good idea to use @page "{id:int}" globally (for all pages)?

It would break the links to the home and create pages

1. What is the purpose of the AsNoTracking method when retrieving Enrollment details?

It improves performance in the scenarios that the entities returned and are not updated in the current context.

1. Briefly discuss the process of how the enrollment data gets displayed.

In the Detials.cshtml file there is a for each loop that prints out each enrolment record

1. What method is used to actually update the student object with data posted from the form during the create process?

TryUpdateModelAsync

1. The term “overposting” is used when binding data from a form to an entity framework model. What does this mean?

Adding to a field that does exist

1. What is the difference between the domain/application model and the view model?

domain model typically contains all the properties required by the corresponding entity in the DB while the view model contains only the property needed for the UI layers.

1. How does a view model prevent overposting?

By sing TryUpdataModle to update fields

1. When is FindAsync preferable during a fetch from the database?

Finds an entity with the primary key and is optimized to look up a single entity

1. What object monitors whether entities are in sync with their corresponding row in the database?

The Database context

1. List the five states that an entity could possibly be in during run time?

Added, Unchanged, Modified, Deleted, Detached.

1. What method is responsible for issuing the appropriate SQL command based on the above states?

DbContext

1. What two things happen if a Remove action fails to complete?

The DB exception is caught and The Delete pages OnGetAsyncmethod is called with saveChangesError=true.