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Mohammed Abu-Hadhoud
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Data Structures Level 2
What is ICollection Interfaces?
Mohammed Abu-Hadhoud
MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD
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What is ICollection Interface?

- ICollection is an interface in the System.Collections namespace that extends IEnumerable.
- It provides a general-purpose way to manage collections, adding functionalities such as counting, adding, and removing elements.
- While IEnumerable allows for simple iteration over a collection, ICollection takes it a step further by offering additional capabilities that are essential for managing dynamic collections.

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Key Features of ICollection

- Count: Gets the number of elements contained in the collection.
- IsReadOnly: Gets a value indicating whether the collection is read-only.
- Add, Remove, Clear: Methods to modify the collection.
- Contains Method: Checks if the collection contains a specific item.

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Best Practices

- Use ICollection<T> when you need a modifiable collection with basic operations such as add, remove, and contains.
- ICollection<T> is more specialized than IEnumerable<T> but less so than IList<T> or IDictionary<TKey, TValue>. Choose the interface that best fits your needs based on the operations you require.
- Implementing ICollection<T> in custom collections makes them more versatile and compatible with .NET's collection manipulation and LINQ queries.

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Conclusion:

- Understanding and implementing ICollection and ICollection<T> is crucial for creating and manipulating collections in C#.
- These interfaces provide a standardized way to manage collections with operations like add, remove, and check for items, enhancing the functionality and flexibility of your C# applications.

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