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Linq c

En este contenido formativo aprenderás los fundamentos de LINQ para .NET, explorando paso a paso sus características y ventajas a través de ejercicios prácticos que te ayudarán a retener mejor la información. Al terminar el curso, habrás aprendido a filtrar, agrupar, seleccionar y hacer consultas de datos en general, de manera más fácil, eficiente y con un código más legible y mantenible. No te lo pienses más y empieza a optimizar tu código y mejorar la eficiencia de tus desarrollos utilizando LINQ. Noemí León es desarrolladora de software con especialización en tecnologías de Microsoft. Estudió ingeniería en Telemática en la Universidad del Caribe. Cuenta con más de 8 años de experiencia como desarrolladora y 3 años como líder de proyectos en plataformas web que atienden a más de 500,000 usuarios al mes. Es embajadora de Women TechMakers y participa de diversos eventos como conferencista y partner sobre temas de desarrollo de software, administración de proyectos, liderazgo e inclusión. También es formadora a nivel presencial, llevando a cabo más de 10 cursos por año sobre tecnologías Microsoft y tecnologías web. LINQ o Language-Integrated Query, es un componente del framework .NET que integra un conjunto de herramientas para el manejo y consulta eficiente de secuencias de datos. Esta herramienta va más allá de una sintaxis dulce. Te permitirá filtrar, agrupar, seleccionar y hacer consultas de datos en general de manera más fácil, eficiente y con un código más legible y mantenible. Además, facilita la interacción y mapeo de objetos de fuentes de datos externas como bases de datos, archivos JSON, XML, entre otros. Soy Noemí León, desarrolladora y líder de proyectos de software. Acompañame en este curso de LinkedIn Learning en el que aprenderás los conceptos y fundamentos de LINQ y cómo aprovechar al máximo sus ventajas a través de ejercicios prácticos. Si trabajas con .NET y entiendes C# a un nivel intermedio o avanzado, estás listo para iniciar. ¿Comenzamos? Descarga los archivos que el instructor utiliza para enseñar el curso. Sigue las instrucciones y aprende viendo, escuchando y practicando. Ejercicios: suscribete para acceder. archivos_base_linq.zip Ve cursos en tu dispositivo móvil sin conexión a Internet. Descarga cursos con la aplicación de LinkedIn Learning para iOS o Android. Estoy haciendo un proyecto para una asignatura de la universidad y me pidieron hacer una API REST para una entidad bancaria. Estoy utilizando EntityFramework v5.0. En la capa de negocio tengo la clase del cliente con los siguientes métodos. using BancoChiloeDataAccess; using System; using System.Collections.Generic; using System.Linq; public class Cliente { public int ClientId { get; set; } public string Nombre { get; set; } public string Apellido { get; set; } public int Telefono { get; set; } public int Telefono { get; set; } public BancoChiloeEntities BD = new BancoChiloeEntities(); public Cliente(int id) { this.ClientId = id; } public Cliente(int id, string nombre, string apellido, int telefono) { this.ClientId = id; this.Nombre = nombre; this.Apellido = apellido; this.Telefono = telefono; } public List selectAll() { return BD.CLIENTE.Select(c => new Cliente() { ClientId = (int)c.CLIENTE.ID, Nombre = c.CLIENTE.NOMBRE, Apellido = c.CLIENTE.APELLIDO, Telefono = (int)c.CLIENTE.TELEFONO }).ToList(); } public bool insertRow() { try { BD.SP.CREATE_CLIENTE(this.Nombre, this.Apellido, this.Telefono); return true; } catch (Exception) { throw new Exception("Error en la ejecución de la consulta."); } } public bool deleteRow() { try { BD.SP.ELIMINAR_CLIENTE(this.ClientId); return true; } catch (Exception) { throw new Exception("Error en la ejecución de la consulta."); } } public bool updateRow() { try { BD.SP.ACTUALIZAR_CLIENTE(this.ClientId, this.Nombre, this.Apellido, this.Telefono.ToString()); return true; } catch (Exception) { throw new Exception("Error en la ejecución de la consulta."); } } } public bool updateRow() { try { BD.SP.ACTUALIZAR_CLIENTE(this.ClientId, this.Nombre, this.Apellido, this.Telefono.ToString()); return true; } catch (Exception) { throw new Exception("Error en la ejecución de la consulta."); } } } public bool deleteRow() { try { BD.SP.ELIMINAR_CLIENTE(this.ClientId); return true; } catch (Exception) { throw new Exception("Error en la ejecución de la consulta."); } } } } Me piden crear un método para buscar clientes por el nombre pero, me pide filtrar los datos por coincidencia, es decir, si yo en el parámetro del nombre ingreso ad, que me devuelva los usuarios que coinciden que ese término, en este caso admin, administrador, adm, y cualquier usuario que coincida con el término de la búsqueda. No recuerdo muy bien como hacer esto con LINQ y lo último que me falta para completar el proyecto. 7 in D2 Dual Hub Pro Edition D2 Dual 4K Display TechnologySupports Power Delivery up to 100W Turns your Dual USB-C ports into 7 portsDual 4K HDMI Display, USB-C with Power Delivery 100W, 2x Super Speed+ USB-A, Super Speed+ USB-C, Gigabit Network Port Page 2 POWER Supports USB-C Power Delivery up to 100W[1] COMPATIBLE DEVICES MacBook Pro 2020/2019/2018/2017, MacBook 2018/2017/2016, Macbook Air 2019, iPad Pro 2020/2018, NINTENDO SWITCH, Chromebook, HUAWEI mate20/mate20 pro,Samsung S8/S9/Note8/Note 9, HP Spectre Pavilion, Huawei Matebook, Dell XPS series,Mi Air and supports Mobile phones and tablets with DP[3] function. CONNECTOR TYPE Type-C, Thunderbolt 3 compatible DIMENSIONS & WEIGHT 15,2cm x 3,2cm x 1,1cm, 63g SPEED USB-A 3.2 Gen1 / USB-C 3.2 Gen1 port up to 5 Gbps. RJ45 port up to 1000Mbps / 1Gbps[4] GUARANTEE 2 Year Manufacturer's Warranty MODEL NO / EAN LQ48010 / 8718969050029 PRODUCT MANUAL [1] The up to 100W charging speed can only be achieved when used with a 100W rated USB-C PD cable in combination of 100W type-C PD Power Adapter. [2] Multiport hubs does not convert a regular USB-C port to USB-C Power Delivery (PD). Check with your laptop manufacturer to verify if your laptop supports Power Delivery (PD). [3] DP or DisplayPort is a digital display interface that is primarily used to connect a video source to a display device such as a computer monitor, and it can also carry audio, USB, and other forms of data. [4] 10/100/1000Mbit/1Gigabit compatible, actual speeds may vary depending on port loading Page 3 POWER Supports USB-C Power Delivery up to 100W[1] COMPATIBLE DEVICES MacBook Pro 2020/2019/2018/2017, MacBook 2018/2017/2016, Macbook Air 2019, iPad Pro 2020/2018, NINTENDO SWITCH, Chromebook, HUAWEI mate20/mate20 pro,Samsung S8/S9/Note8/Note 9, HP Spectre Pavilion, Huawei Matebook, Dell XPS series,Mi Air and supports Mobile phones and tablets with DP[3] function. CONNECTOR TYPE Type-C, Thunderbolt 3 compatible DIMENSIONS & WEIGHT 12,7cm x 2,8cm x 1,0cm, 48g SPEED USB-A 3.2 Gen1 / USB-C 3.2 Gen1 port up to 5 Gbps. GUARANTEE 2 Year Manufacturer's Warranty MODEL NO / EAN LQ48004 / 5706662208024 PRODUCT MANUAL [1] The up to 100W charging speed can only be achieved when used with a 100W rated USB-C PD cable in combination of 100W type-C PD Power Adapter. [2] Multiport hubs does not convert a regular USB-C port to USB-C Power Delivery (PD). 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RJ45 up to 1000Mbps / 1Gbps GUARANTEE 2 Year Manufacturer's Warranty MODEL NO / EAN LQ48003 / 5706662208017 PRODUCT MANUAL [1] The up to 100W charging speed can only be achieved when used with a 100W rated USB-C PD cable in combination of 100W type-C PD Power Adapter. [2] Multiport hubs does not convert a regular USB-C port to USB-C Power Delivery (PD). Check with your laptop manufacturer to verify if your laptop supports Power Delivery (PD). [3] DP or DisplayPort is a digital display interface that is primarily used to connect a video source to a display device such as a computer monitor, and it can also carry audio, USB, and other forms of data. 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GUARANTEE 2 Year Manufacturer's Warranty MODEL NO / UPC LQ48001 / 5706662207997 PRODUCT MANUAL [1] The up to 100W charging speed can only be achieved when used with a 100W rated USB-C PD cable in combination of 100W type-C PD Power Adapter. [2] Multiport hubs does not convert a regular USB-C port to USB-C Power Delivery (PD). Check with your laptop manufacturer to verify if your laptop supports Power Delivery (PD). [3] DP or DisplayPort is a digital display interface that is primarily used to connect a video source to a display device such as a computer monitor, and it can also carry audio, USB, and other forms of data. Page 7 POWER RATING Supports USB-C Power Delivery up to 100W[1] COMPATIBLE DEVICES MacBook Pro 2020/2019/2018/2017, MacBook 2018/2017/2016, Macbook Air 2019, iPad Pro 2020/2018, NINTENDO SWITCH, Chromebook, HUAWEI mate20/mate20 pro,Samsung S8/S9/Note8/Note 9, HP Spectre Pavilion, Huawei Matebook, Dell XPS series,Mi Air and supports Mobile phones and tablets with DP[3] function. CONNECTOR TYPE Type-C, Thunderbolt 3 compatible DIMENSIONS & WEIGHT 6,6cm x 2,8cm x 1,0cm, 26,5g SPEED USB-A 3.2 Gen1 up to 5 Gbps. GUARANTEE 2 Year Manufacturer's Warranty MODEL NO / UPC LQ48000 / 5706662209038 PRODUCT MANUAL [1] The up to 100W charging speed can only be achieved when used with a 100W rated USB-C PD cable in combination of 100W type-C PD Power Adapter. [2] Multiport hubs does not convert a regular USB-C port to USB-C Power Delivery (PD). Check with your laptop manufacturer to verify if your laptop supports Power Delivery (PD). 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[2] Multiport hubs does not convert a regular USB-C port to USB-C Power Delivery (PD). Check with your laptop manufacturer to verify if your laptop supports Power Delivery (PD). [3] DP or DisplayPort is a digital display interface that is primarily used to connect a video source to a display device such as a computer monitor, and it can also carry audio, USB, and other forms of data. Page 9 Sign up to our Newsletter Stay up-to-date on our new releases, seasonal discounts / offerings and upcoming events. Page 10 Sign up to our Newsletter Stay up-to-date on our new releases, seasonal discounts / offerings and upcoming events. Response Time:5 milliseconds Response Time:2 millisecondsResolution:4 k uhd, ultra wide 1600 p Visit the help section or contact us Vendido por Accesorios GSM Vendido por Accesorios GSM Vendido por Accesorios GSM Vendido por Accesorios GSM Vendido por Accesorios GSM public class Company { public int Name { get; set; } public int Name { get; set; } } List listofCompany = new List(); esta es mi coleccion de lista de compañías a la que quiero asignar valores a la propiedad Name usando LINQlistofCompany.Where(d => d.Id = 1); (Quiero evaluar la propiedad del nombre de la identificación de la compañía 1)¿Cómo lo asigno? There are two basic ways to write a LINQ query to IEnumerable collection or IQueryable data sources. Query Syntax or Query Expression Syntax Method Syntax or Method Extension Syntax or Fluent Query Syntax Query Syntax is similar to SQL (Structured Query Language) for the database. It is defined within the C# or VB code. from in The LINQ query syntax starts with from keyword and ends with select keyword. The following is a sample LINQ query that returns a collection of strings which contains a word "Tutorials". // string collection IList stringList = new List() { "C# Tutorials", "VB.NET Tutorials", "Learn C++", "MVC Tutorials" , "Java" }; // LINQ Query Syntax var result = from s in stringList where s.Contains("Tutorials") select s; The following figure shows the structure of LINQ query syntax. LINQ Query Syntax Query syntax starts with a From clause followed by a Range variable. The From clause is structured like "From clause is structured like "From rangeVariableName in Enumerablecollection". In English, this means, from each object in the collection. It is similar to a foreach loop: foreach(Student s in studentList). After the From clause, you can use different Standard Query Operators to filter, group, join elements of the collection. There are around 50 Standard Query Operators available in LINQ. In the above figure, we have used "where" operator (aka clause) followed by a condition. This condition is generally expressed using lambda expression. LINQ query syntax always ends with a Select or Group clause. The Select clause is used to shape the data. You can select the whole object as it is or only some properties of it. In the above example, we selected the each resulted string elements. In the following example, we use LINQ query syntax to find out teenager students from the Student collection (sequence). // Student collection IList studentList = new List() { new Student() { StudentID = 1, StudentName = "John", Age = 13 } , new Student() { StudentID = 2, StudentName = "Moin", Age = 21 } , new Student() { StudentID = 3, StudentName = "Bill", Age = 18 } , new Student() { StudentID = 4, StudentName = "Ram", Age = 20 } , new Student() { StudentID = 5, StudentName = "Ron", Age = 15 } }; // LINQ Query Syntax to find out teenager students var teenAgerStudent = from s in studentList where s.Age > 12 && s.Age < 20 select s; // Student collection Dim studentList = New List(Of Student) From { New Student() With {.StudentID = 1, .StudentName = "John", .Age = 13}, New Student() With {.StudentID = 2, .StudentName = "Moin", .Age = 21}, New Student() With {.StudentID = 3, .StudentName = "Bill", .Age = 18}, New Student() With {.StudentID = 4, .StudentName = "Ram", .Age = 20}, New Student() With {.StudentID = 5, .StudentName = "Ron", .Age = 15} } // LINQ Query Syntax to find out teenager students Dim teenAgerStudents As IList(Of Student) = (From s In studentList Where s.Age > 12 And s.Age < 20 Select s).ToList() As name suggest, Query Syntax is same like SQL (Structure Query Language) syntax. Query Syntax starts with from clause and can be end with Select or GroupBy clause. Use various other opertors like filtering, joining, grouping, sorting operators to construct the desired result. Implicitly typed variable - var can be used to hold the result of the LINQ query.

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