

System.Data.DataSetExtensions

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Kind: Service

Source: Pams/Logic/Pams.CurrencyConverter/Pams.CurrencyConverter.csproj (line 1)

Part of: Pams

NuGet package dependency

`System.Data.DataSetExtensions` is a NuGet dependency declared by the `Pams.CurrencyConverter` project. It provides .NET extension methods for working with `DataSet` and `DataTable` objects, including LINQ-based queries used by server-side currency conversion logic.

Diagram

```
sequenceDiagram
    participant Build as Project Build
    participant NuGet as NuGet Restore
    participant Converter as Pams.CurrencyConverter
    participant DataSet as DataSet Extensions

    Build->>NuGet: Restore System.Data.DataSetExtensions
    NuGet-->>Converter: Provide package assembly
    Converter->>DataSet: Query DataTable or DataSet with LINQ extensions
    DataSet-->>Converter: Return typed query results
```

Usage

```
// The NuGet package runs in the .NET currency converter service.
// JavaScript clients access the service through its API.

async function convertCurrency(
    amount: string,
    fromCurrency: string,
    toCurrency: string,
```

```

) {
    const response = await fetch("/api/currency/convert", {
        method: "POST",
        headers: {
            "Content-Type": "application/json",
        },
        body: JSON.stringify({
            amount,
            fromCurrency,
            toCurrency,
        }),
    });

    if (!response.ok) {
        throw new Error("Currency conversion request failed");
    }

    return response.json();
}

```

AI Coding Instructions

- Keep `System.Data.DataSetExtensions` as a server-side dependency; JavaScript clients cannot import or call the NuGet package directly.
- Use the package's LINQ extension methods when querying `DataSet` or `DataTable` values in the .NET project.
- Check for missing tables, columns, and empty query results before reading values from a `DataSet`.
- Preserve the project's existing legacy package declaration format when updating this dependency.
- Test currency conversion paths that depend on data returned from `DataSet` queries.

Used by

7 references from 7 files. Each is a place in this repository where the symbol is actually used — go read one rather than trusting an example.

Injected or called by (7)

- `Pams.API` — `Pams/API/Pams.API/Pams.API.csproj :1`
- `Pams.Security` — `Pams/Core/Pams.Security/Pams.Security.csproj :1`
- `Pams.Data` — `Pams/Data/Pams.Data/Pams.Data.csproj :1`

- HelperTool — Pams/HelperTool/HelperTool.csproj :1
- Pams.Common — Pams/Logic/Common/Pams.Common.csproj :1
- Pams.Business — Pams/Logic/Pams.Business/Pams.Business.csproj :1
- Pams.CurrencyConverter —
Pams/Logic/Pams.CurrencyConverter/Pams.CurrencyConverter.csproj :1