

System.Xml.Linq

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Kind: Service

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

Part of: Pams

NuGet package dependency

`System.Xml.Linq` is a NuGet package dependency declared by the `Pams.CurrencyConverter` project. It contains LINQ-to-XML types that currency-converter code can use to read, query, and write XML data; callers interact with the converter service rather than this package directly.

Diagram

```
sequenceDiagram
    participant Client
    participant Converter as Pams.CurrencyConverter
    participant Xml as System.Xml.Linq

    Client->>Converter: Send currency conversion request
    Converter->>Xml: Load and query XML data
    Xml-->>Converter: Return XML elements and values
    Converter-->>Client: Return conversion result
```

Usage

```
type ConversionResult = {
    from: string;
    to: string;
    amount: number;
    convertedAmount: number;
};

async function convertCurrency(
```

```

    from: string,
    to: string,
    amount: number,
  ): Promise<ConversionResult> {
    const response = await fetch("/api/currency-converter/convert", {
      method: "POST",
      headers: {
        "Content-Type": "application/json",
      },
      body: JSON.stringify({ from, to, amount }),
    });

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

    return response.json();
  }

  const result = await convertCurrency("USD", "EUR", 100);
  console.log(result.convertedAmount);

```

AI Coding Instructions

- Keep `System.Xml.Linq` referenced through the `Pams.CurrencyConverter.csproj` project dependency.
- Use LINQ-to-XML types such as `XDocument` and `XElement` inside the .NET converter implementation, not in TypeScript clients.
- Do not expose XML document types through service contracts; return DTOs or JSON responses to callers.
- Validate XML structure and missing element values before using them for currency conversion logic.
- Preserve the existing project-file package format when editing this legacy-format dependency.

Used by

6 references from 6 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 (6)

- `Pams.Core` — `Pams/Core/Pams.Core/Pams.Core.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.Business — Pams/Logic/Pams.Business/Pams.Business.csproj :1
- Pams.CurrencyConverter —
Pams/Logic/Pams.CurrencyConverter/Pams.CurrencyConverter.csproj :1