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When you instantiate, prefer **dependency injection by constructor** instead of passing it on every method. Example:



This way <code>DownloadFiles</code> always has a valid HTTP client and you don't have to pass it manually to each method. Cleaner!

6 Diagram

CurlHttpClient realHttpClient;
DownloadFiles downloader(realHttpClient);
downloader.isValidUrl();



Why Use an Interface?

Reason	Explanation
Testability	You can create a fake or mock HTTP client for unit testing without making real HTTP calls.
Flexibility	You can change your HTTP backend (like from libcurl to Boost.Beast or cpp-httplib) easily.
Separation of Concerns	Business logic shouldn't know about low-level HTTP details.
Dependency Inversion Principle	Code depends on abstractions, not concrete implementations (important SOLID principle).

What you have now

You created a design like this:

% How you use it

Inside your DownloadFiles class:

✓ Notice: Pass IHttpClient by reference, not by value (avoids slicing and copies).

When you use it normally (in production code), you instantiate the concrete CurlHttpClient and pass it:

In unit tests, you will inject a MockHttpClient instead:

In your unit test code: