

HTTP Communication with Blazor



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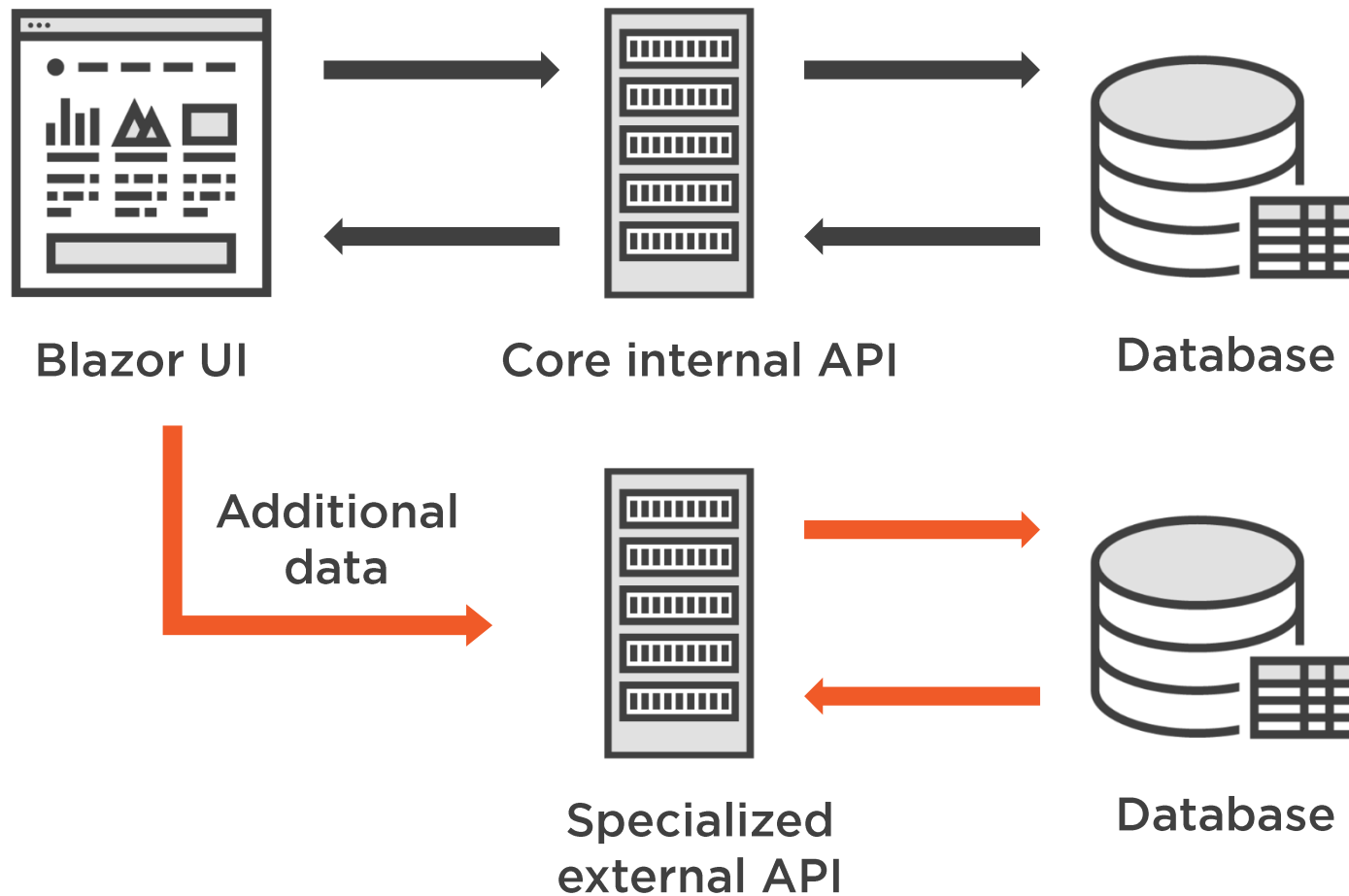
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A note about HTTP and RESTful Web Services.



One Application, Multiple APIs



Calling a Web API with Blazor



HttpClient

The main class used by Blazor to send HTTP Requests.



Understanding HttpClient Options

Blazor WebAssembly

HttpClient is ready to go with default app settings.

Blazor Server

HttpClient requires some basic configuration.



A note about HttpClient.



HttpClientFactory

A class that manages HttpClient instances and addresses common problems associated with them.



HttpClientFactory Options

Basic clients

Named clients

Typed clients

Generated clients



Working with HttpClient and Typed Services

JobsDataService.cs

```
private HttpClient _httpClient;

public JobsDataService(HttpClient
client)
{
    _httpClient = client;
}
```

startup.cs

```
var baseUrl = new Uri("localhost:5001")

services.AddHttpClient<IJobsDataService,
JobsDataService>(client =>
{
    client.BaseAddress = baseUrl;
});
```

Working with HttpClientFactory Directly

An option for isolated scenarios that don't require their own service.

JobEditBase.cs

```
[Inject]
```

```
public IHttpClientFactory _httpClientFactory;
```

```
// Use this client to send requests
```

```
var client = _httpClientFactory.CreateClient();
```

Making Requests with HttpClient

Default Options

Make requests using the default methods of the class.

Helper Libraries

Make requests using helper extension methods provided by libraries.



Demo



Improving the setup of HttpClient



Demo



Retrieving data from the API



Demo



Sending data to the API



Demo



Customizing HTTP Requests



Summary



Blazor utilizes the HttpClient class to communicate with web services

HttpClientFactory provides an improved way of managing HttpClient instances

.NET provides various techniques for working with HttpClientFactory

Typed Clients are application services that depend on HttpClient

HttpClient provides various methods to make requests with different HTTP verbs

Blazor provides a helper library to streamline working with JSON requests

We can also send custom HTTP requests

