# AgileAggregator (Advanced Version) – Class Documentation

This advanced version introduces a flexible and scalable architecture using GenericApiService.

## Key Classes

• GenericApiService – Handles API requests dynamically via path configuration.

• ApiServiceDefinition – Holds all config info including paths and authentication.

• IApiPostProcessor – Interface for custom post-processing.

• ApiPostProcessorRegistry – Registry that resolves processor instances.

• WeatherPostProcessor – Example processor for OpenWeatherMap.

• ApiServiceConfigLoader – Loads definitions from MS Access and assigns postprocessors.

## Unit Testing

Includes xUnit tests for normal behavior and error scenarios, using Moq to simulate API responses.

## Database Fields

|  |  |
| --- | --- |
| Column | Description |
| ServiceName | Logical name of the API |
| BaseUrl | Root URL for the API |
| QueryTemplate | Template with placeholders (e.g., {keyword}) |
| AuthType | Either ApiKey or ClientCredentials |
| ItemPath | JSON path to results array/object |
| TitlePath | Path to title field |
| DescriptionPath | Path to description |
| ImagePath | Path to image/icon |
| DatePath | Path to date |
| PostProcessor | Optional processor class name |