

Lesson 38 - Web APIs with dotnet

Structure

The default template for a .NET 6 web API project provides a basic structure for building a web API. Here are some notes on the key components of the default template:

1. **Controllers:** The Controllers folder contains the classes that handle incoming HTTP requests and return HTTP responses. By convention, controller classes are suffixed with "Controller". The default template includes a `WeatherForecastController` class that returns a list of weather forecasts as an example.
2. **Models:** The Models folder contains the classes that define the data structures used by the API. In the default template, the `WeatherForecast` class is used to represent a weather forecast.
3. **Startup.cs:** The Startup.cs file contains the configuration code for the application. It includes the `ConfigureServices` and `Configure` methods, which are responsible for configuring services and middleware, respectively.
4. **appsettings.json:** The appsettings.json file contains the configuration settings for the application. It includes settings for the logging system, the database connection, and other application-specific settings.
5. **Program.cs:** The Program.cs file contains the entry point for the application. It creates a web host and starts the application.
6. **wwwroot:** The wwwroot folder contains static files that can be served by the web server, such as images, CSS files, and JavaScript files.

Overall, the default template provides a solid starting point for building a web API using .NET 6. However, it can be customized and extended to meet the specific needs of your application.

Postman

Postman

Postman is an API platform for building and using APIs. Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster.

 www.postman.com



Postman is a popular API development tool that allows developers to design, test, and debug APIs. It provides an intuitive interface for creating HTTP requests and analyzing the responses, making it easier to work with APIs.

With Postman, you can:

- **Send requests:** Postman allows you to send HTTP requests to a web API and inspect the response. You can choose the HTTP method, add headers and parameters, and include a request body if necessary. You can also save requests for future use.
- **Organize requests:** Postman allows you to organize your requests into collections and folders. This makes it easier to manage your requests and keep them organized.
- **Mock APIs:** Postman allows you to create mock APIs, which are fake APIs that mimic the behavior of a real API. This is useful for testing and development, as it allows you to test your application without relying on a real API.
- **Automate tests:** Postman allows you to automate your tests using scripts. You can write scripts to test different scenarios and run them automatically. This saves time and ensures that your API is working as expected.
- **Collaborate:** Postman allows you to collaborate with your team by sharing your collections and requests. You can also comment on requests and collaborate in real-time.

Postman is a powerful tool for API development and testing, and it is widely used by developers and teams around the world. It is available as a desktop application for Windows, macOS, and Linux, as well as a web application. Postman also offers a range of paid plans with additional features and support.