.NET Developer Roadmap 2024. Minimal

1. C#
- Basics of C# 6 - 12
- Dotnet CLI
- .NET Framework
- .NET
- .NET Standard
- NuGet

2. General Development Skills
- Version Control - Git
- Data Structures & Algorithms
- Clean Code
- Refactoring
- Design Patterns
- SOLID Principles
- Software Architectures
  - Layered
  - Microservices

3. ASP.NET Core
- Web Basics
  - How Internet works
  - HTTP(S) protocol
  - How DNS works
  - What happens when you type a URL into your browser?
- ASP.NET Core Fundamentals
- ASP.NET MVC
- Filters & Attributes
- Middleware
- Host
- Server
- Routing
- Configuration
- Errors
- Depedency Injection
- API
  - Web API
  - Minimal APIs
  - REST
  - JSON
- Security
  - Authorization
  - Authentication

4. Client-Side .NET
- Razor
- Blazor
- WPF
- .NET MAUI

5. Databases
- Database design
- SQL
- Relational
  - SQL Server
  - PostgreSQL
  - Azure SQL
- NoSQL
  - MongoDB
  - Azure Cosmos DB

6. ORM
- Entity Framework Core
- LINQ

7. Logging
- Microsoft.Extensions.Logging
- Serilog

8. Communication
- Real-time
  - SignalR Core
  - WebSockets
- Synchronous
  - HttpClient
- Asynchronous
  - RabbitMQ
  - Azure Service Bus
  - MassTransit

9. Testing
- Unit Testing
  - Frameworks
    - xUnit
    - MSTest
  - Mocking
    - NSubstitute
- Integration Testing
  - WebApplicationFactory
  - TestServer

10. Containerization
- Docker

11. Background tasks
- Background Service

12. Caching
- Memory Cache
- Redis

13. DevOps
- DevOps concepts
- Services
  - GitHub Actions
  - Azure Pipelines

14. Essential Libraries
- MediatR
- Polly
- Fluent Validation

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simplifying complex topics