

DotVVM and .NET MAUI Integration

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DotVVM

- Web application framework
- Development using C#, HTML, CSS
- MVVM architectural pattern
- Built on top of the ASP.NET

www.dotvvm.com

.NET MAUI

- Cross-platform UI framework for building native mobile and desktop applications
- Single codebase for Android, Windows, iOS, macOS and Linux
- Customizable set of UI controls and layouts

www.github.com/dotnet/maui

Solution architecture

- DotVVM and .NET MAUI run in the same process
- **WebView**
 - Web page rendering
 - Interoperability between native language and JavaScript
 - Interception of HTTP requests
- **Message Handler**
 - Responding to incoming messages
 - Passing intercepted requests to DotVVM server
- **DotVVM WebView** is used as component in .NET MAUI UI (XAML)

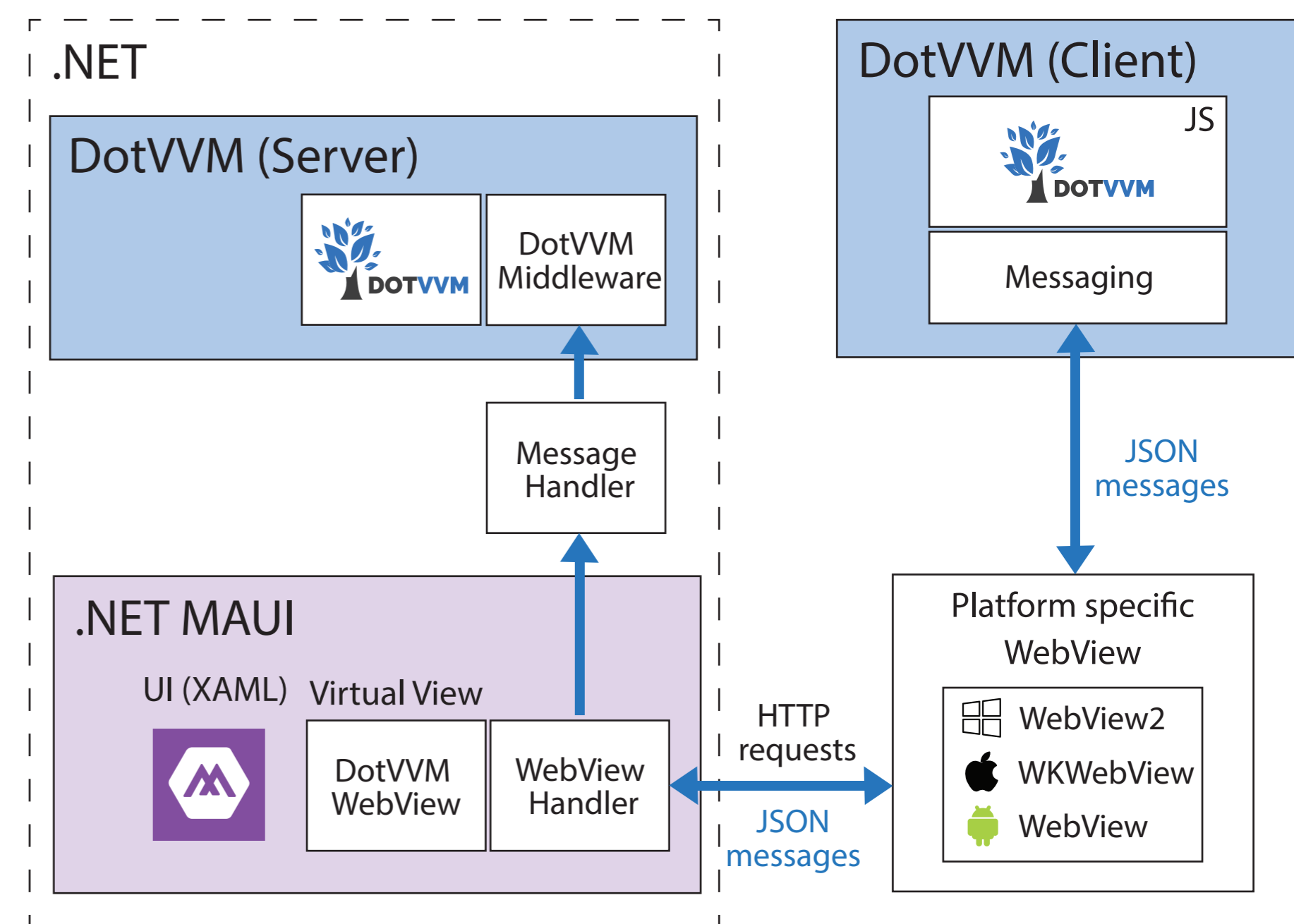


Figure 1: Communication between DotVVM and .NET MAUI using WebView.

Usage

- Web app that can access native functionalities

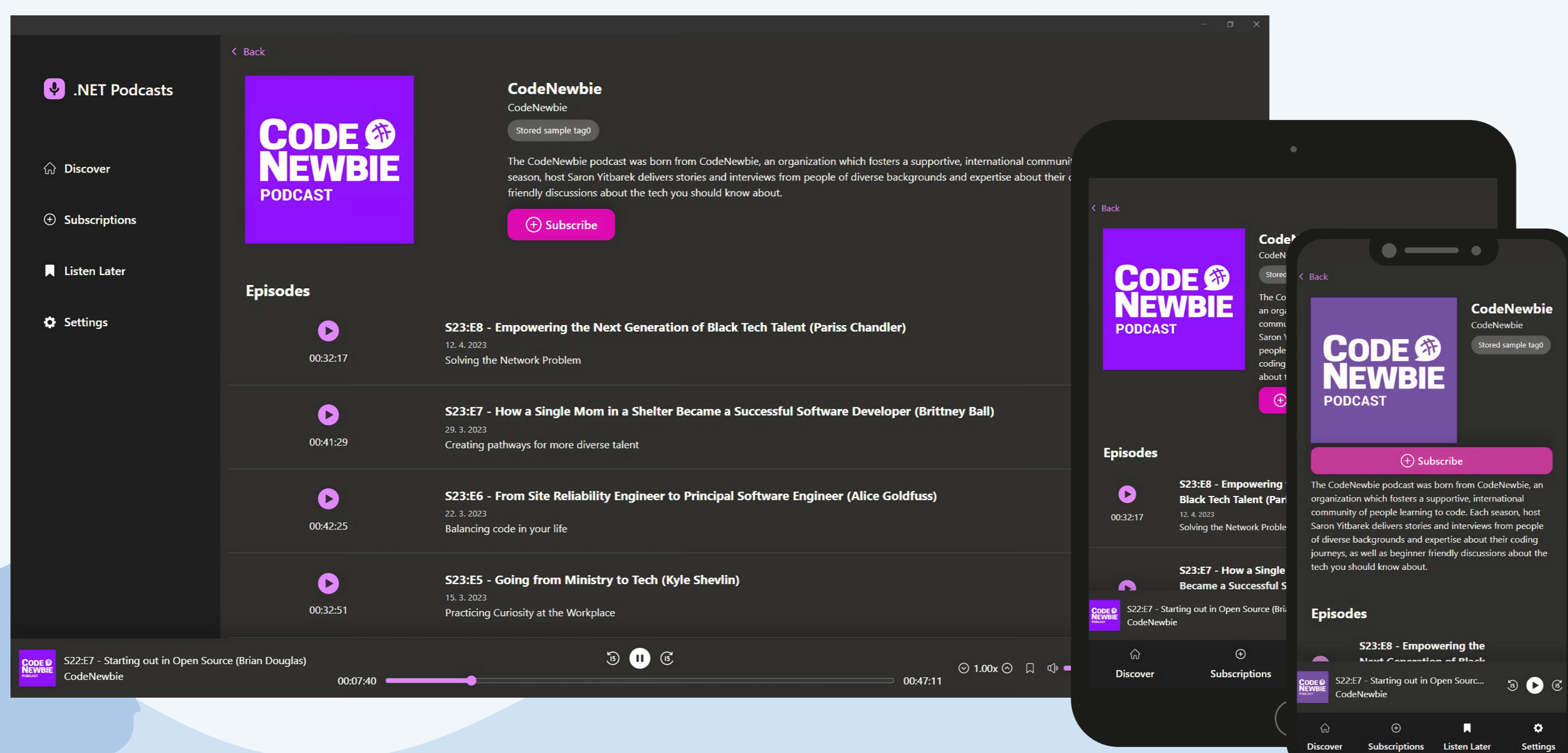


Figure 2: Sample application podcast detail page on different devices.