

.NET MAUI on Tizen RPI

**.NET MAUI Application 을 만들고
Tizen Platform RaspberryPi 에서 실행해 봅시다**

김성수

Contents

- Focus on .NET MAUI
 - Focus on Tizen .NET
 - NUI
 - RaspberryPi
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8 followers · 20 following

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Overview

Repositories 36

Projects

Packages

Stars 14

Pinned

dotnet/maui Public

.NET MAUI is the .NET Multi-platform App UI, a framework for building native device applications spanning mobile, tablet, and desktop.

C# 16.6k 1k

Samsung/Tizen.NET Public

Welcome to Tizen .NET

C# 118 23

Samsung/Tizen.UIExtensions Public

The Tizen.UIExtensions provides a set of advanced views and containers based on Tizen.NET UI Framework.

C# 3 7

Samsung/TizenFX Public

C# Device APIs for Tizen

C# 147 215

xamarin/Xamarin.Forms Public

Xamarin.Forms Official Home

C# 5.6k 1.9k

xamarin/Essentials Public

Essential cross platform APIs for your mobi

C# 1.5k 487

.NET Conf

"Focus on MAUI"

August 9, 2022

0 days 15 hours 44 minutes

Save the Date!



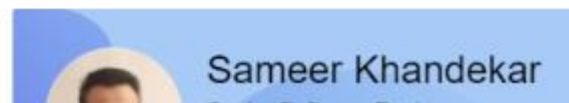
Join us for a day of livestream sessions

.NET Conf: Focus on MAUI is a free, one-day livestream event that features speakers from the community and Microsoft teams working on and using [.NET Multi-platform App UI](#). Learn how to build native apps for Android, iOS, macOS and Windows with a single codebase using .NET MAUI. Hear from the team building the .NET MAUI framework and tools as well as experts building .NET MAUI apps, libraries, components and controls.

Tune in here on August 9, ask questions live, and learn how to build native apps for any device with .NET MAUI.

Featured speakers

[Check out the agenda!](#)

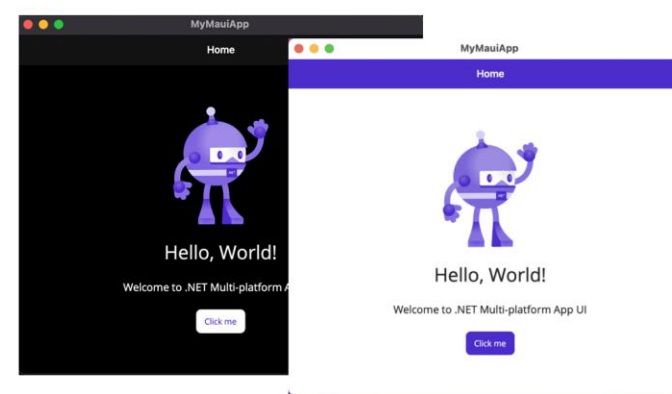
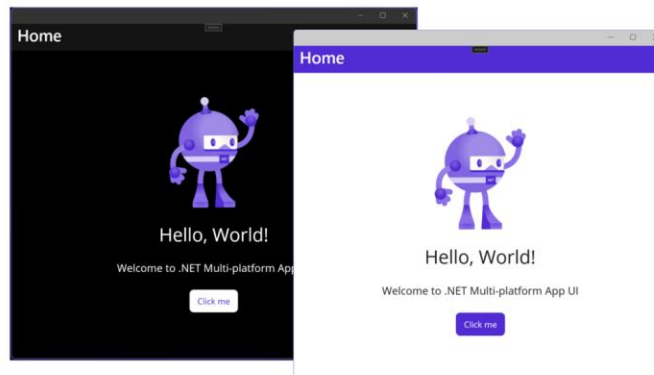
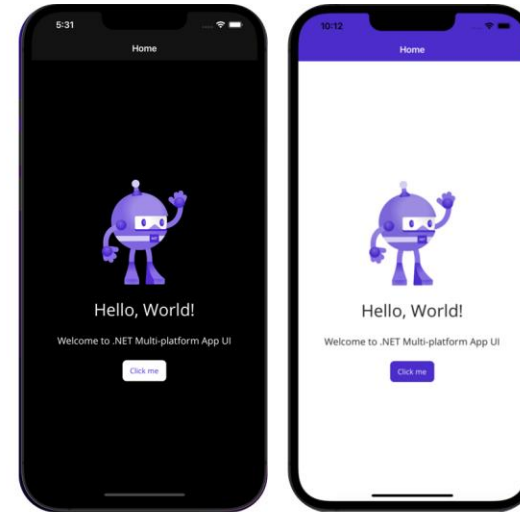
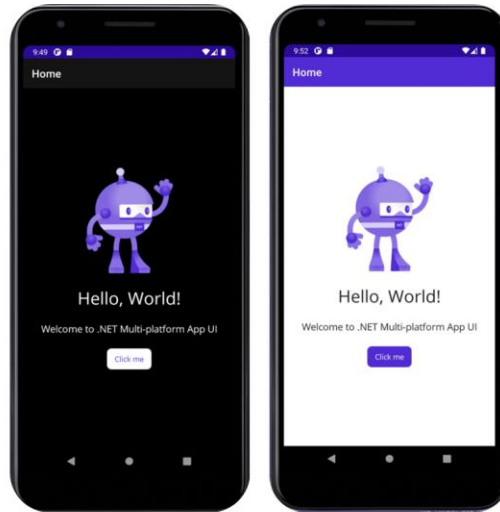
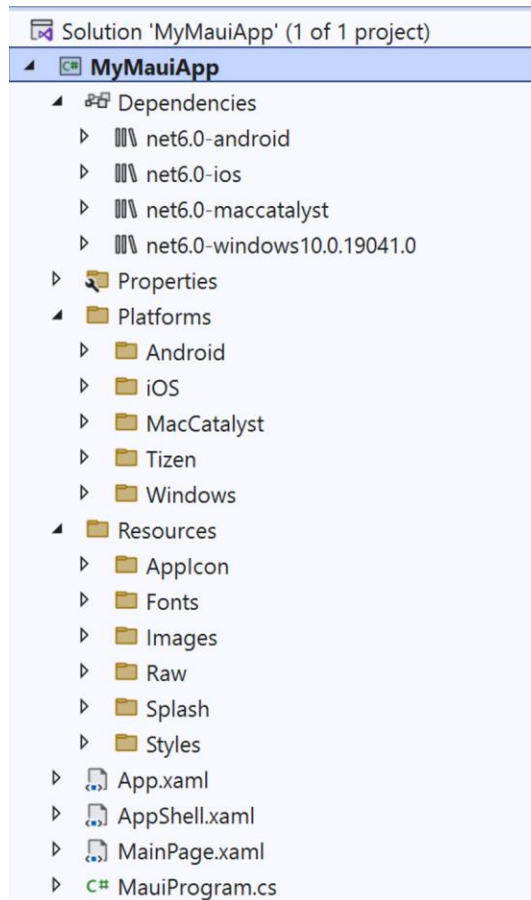


.NET conf focus on MAUI

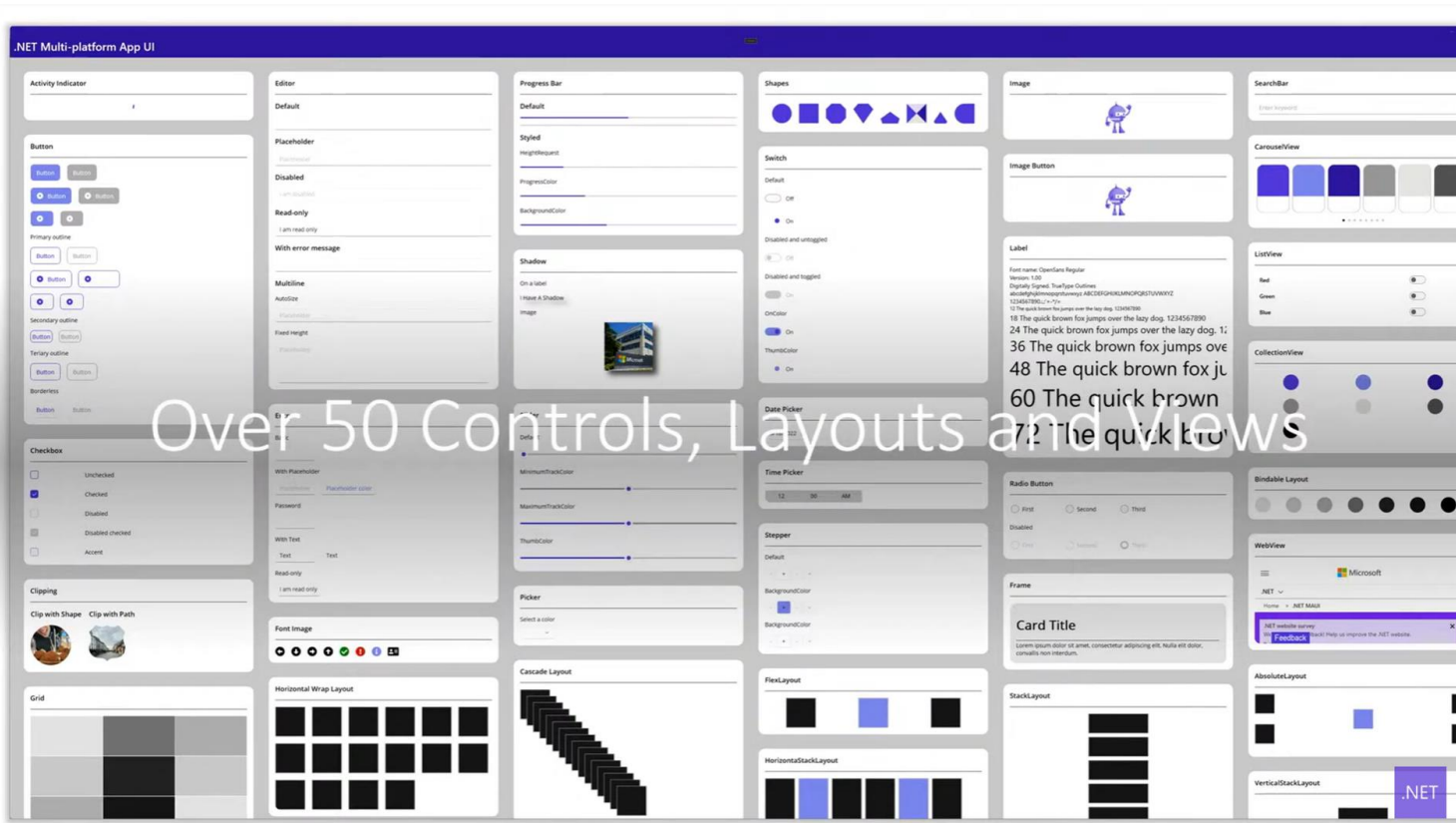
- **Multi Platform Application UI**
 - Cross platforms/profiles
 - Visual Studio 2022, v17.3 update
 - Single Project, Multi Targets
 - Performance
 - Productivity



Single Project, Multi Target



Productivity



Over 50 Controls, Layouts and Views

Performance

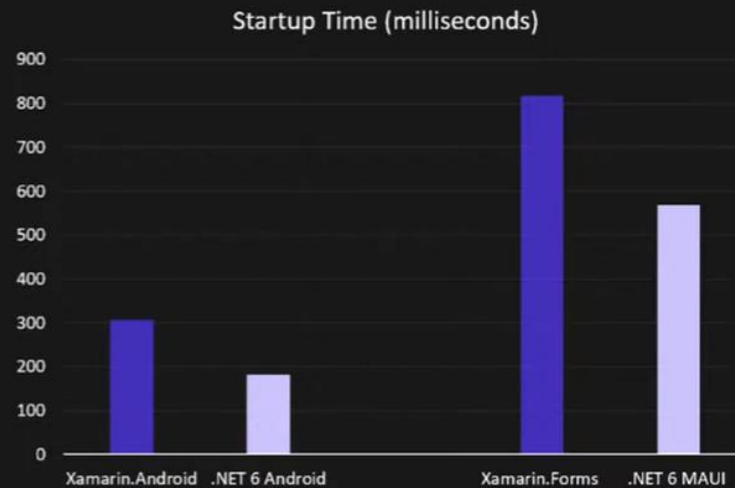
.NET MAUI perf improvements

68%

Faster than Xamarin.Android

44%

Faster than Xamarin.Forms



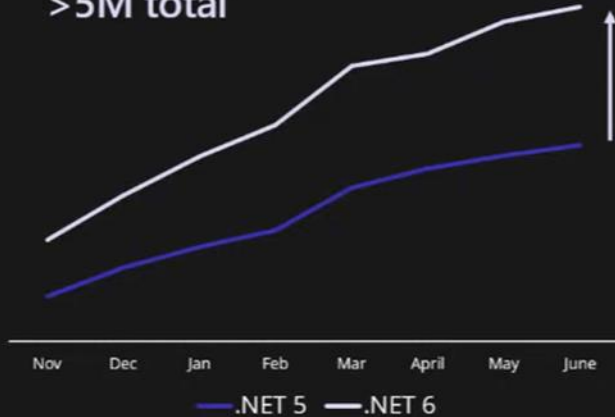
Adoption

.NET Adoption

Active users by version
(month since release)

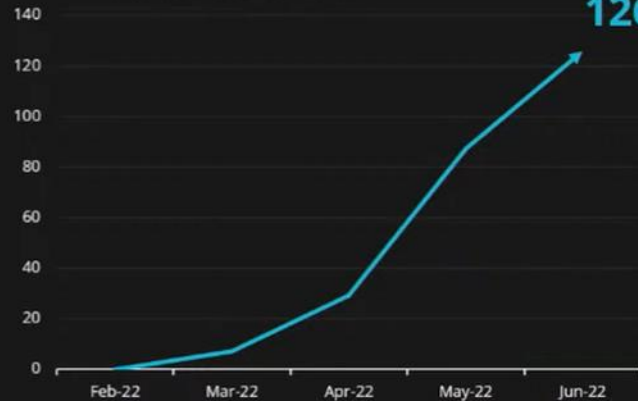
>5M total

1.7x



.NET MAUI Usage
Cumulative Growth %

126%



Supported Platforms

Supported platforms

.NET MAUI

- Android 5.0 (API 21) or higher
- iOS 10 or higher
- macOS 10.15 or higher, using Mac Catalyst
- Windows 11 and Windows 10 version 1809 or higher, using WinUI 3

.NET MAUI Blazor

- Android 7.0 (API 24) or higher
- iOS 14 or higher
- macOS 11 or higher, using Mac Catalyst
- Windows 11 and Windows 10 version 1809 or higher, using WinUI 3

Also

- Tizen, supported by Samsung.
- Linux, supported by the community



Tizen. NET

- .NET MAUI also includes Tizen Support
 - From May, GA release
 - which is provided by Samsung [Tizen.NET](#).
 - Visual Studio tools for Tizen
 - .NET 6 workload
 - Tizen SDK, Emulator etc




.NET MAUI focus on Tizen

- Replace Backend Engine
 - [#9619](#) [#9620](#) PR
 - Changed Tizen Platform UI toolkit
 - EFL deprecated -> [NUI](#) with DALi
 - All handlers fixed
 - Profits



NUI Controls



Default

Button

Check

Progressbar

Icon + Text

Add to Contacts

Add to Email

Note

Alarm

Timer

Clock

Popup

This Popup has title area, content area and action area set, action area has two buttons OK and Cancel.

OK

Cancel

Datetime

01 Jan 1902

Slider

Toolbar

Tab1 Tab2 Tab3

Index

--- | ---

Yes

Exit

Set Date

Oct	30	2019
Nov	31	2020
Dec	1	2021
Jan	2	2022
Feb	3	2023

Set

Cancel

Menu

More

Menu1

Menu2

Menu3

Menu4

Menu5

Slider

55%

Progress

Hello World!

TextLabel

Edit text

TextField


Edit multi-line text

TextEditor

Tab1

Tab2

Tab3



Submit

Button

CheckBox

Switch

Progress

55%

Progress

Hello World!

TextLabel

Edit text

TextField

Edit multi-line text

TextEditor

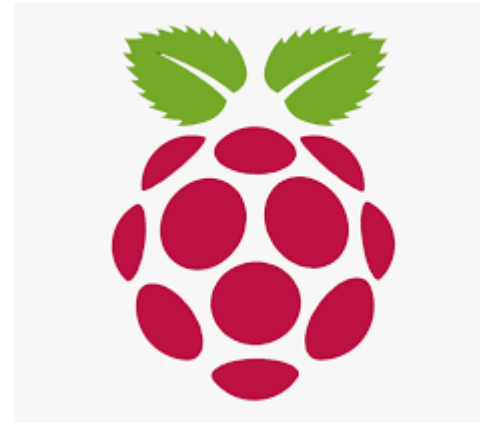
Tab1

Tab2

Tab3

Tizen RaspberryPi

- RaspberryPi 3 / 4
 - 2017 Tizen 4.0 .NET / IoT
 - 19, 20, 21 Seoul HW Hackathon
 - .NET MAUI Desktop profile
 - [Tizen School](#)

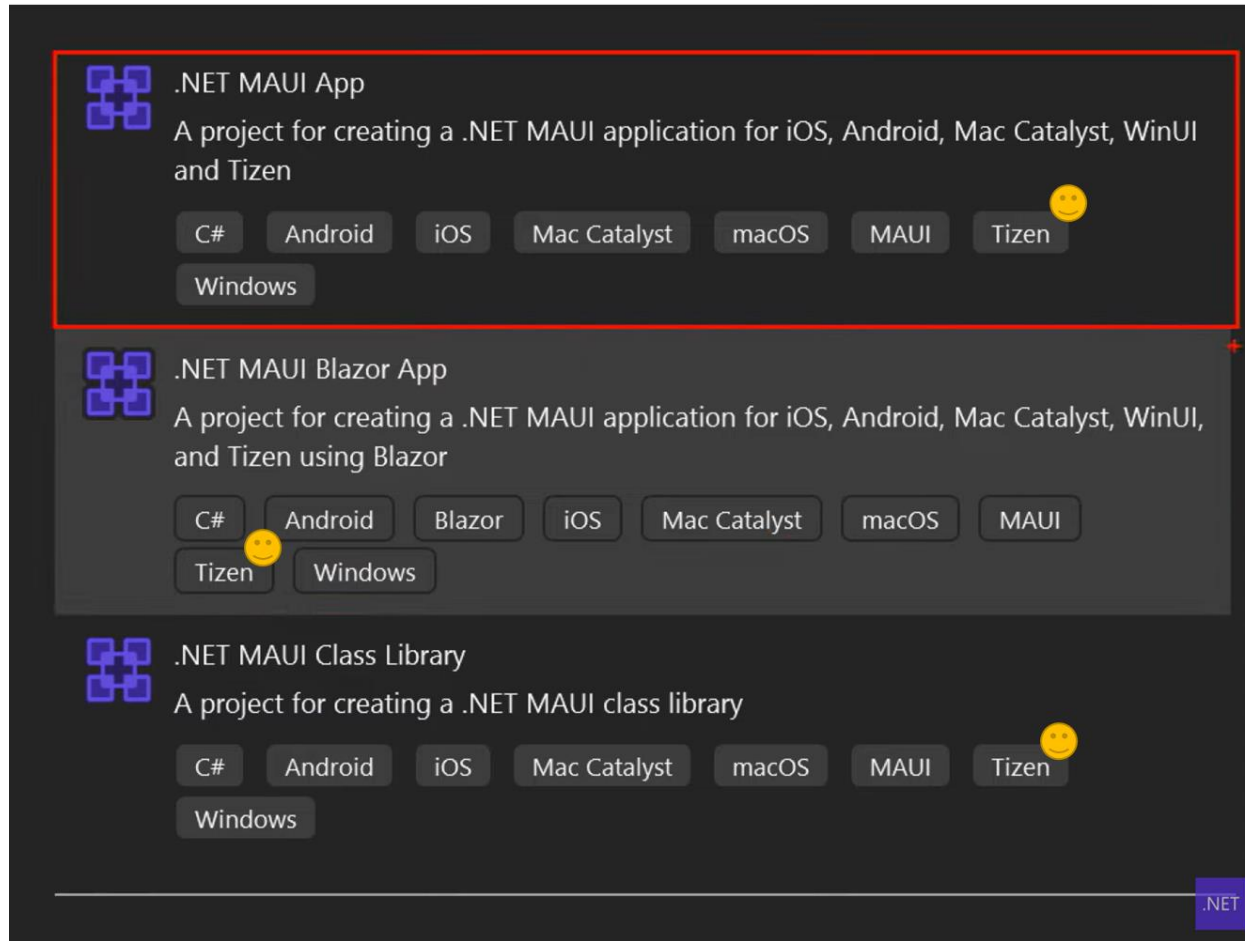


Demo


- Default Template Sample
- Point Of Sale





Summary





The screenshot displays three project templates for .NET MAUI, each with a description and a set of platform and language selection buttons. The first template, ".NET MAUI App", is highlighted with a red border. The second template, ".NET MAUI Blazor App", includes a "Blazor" button. The third template, ".NET MAUI Class Library", is for creating a class library. Each template has a yellow smiley face icon next to the "Tizen" button. A ".NET" logo is visible in the bottom right corner of the interface.


 .NET MAUI App
A project for creating a .NET MAUI application for iOS, Android, Mac Catalyst, WinUI and Tizen

C# Android iOS Mac Catalyst macOS MAUI Tizen 
Windows

 .NET MAUI Blazor App
A project for creating a .NET MAUI application for iOS, Android, Mac Catalyst, WinUI, and Tizen using Blazor

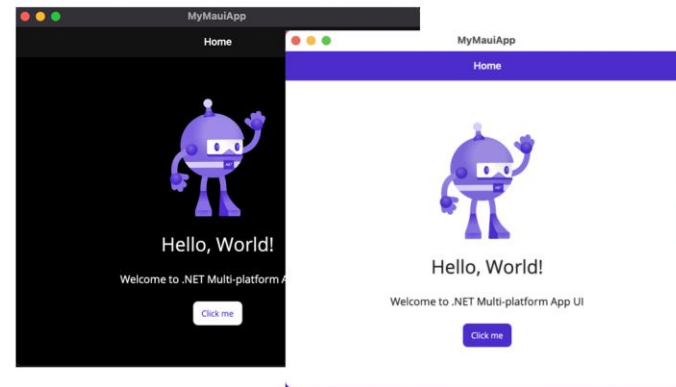
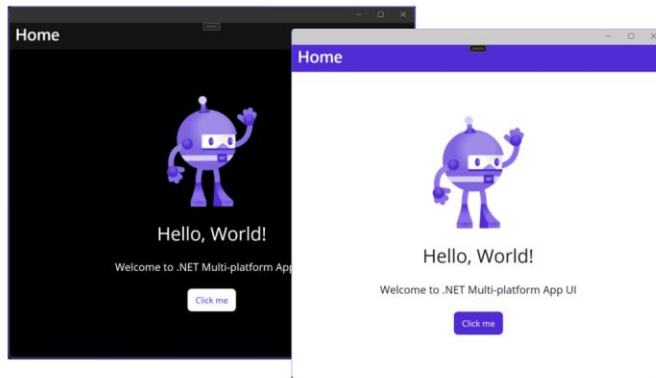
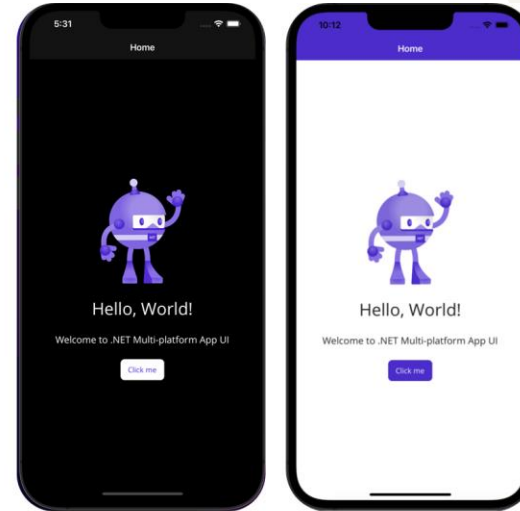
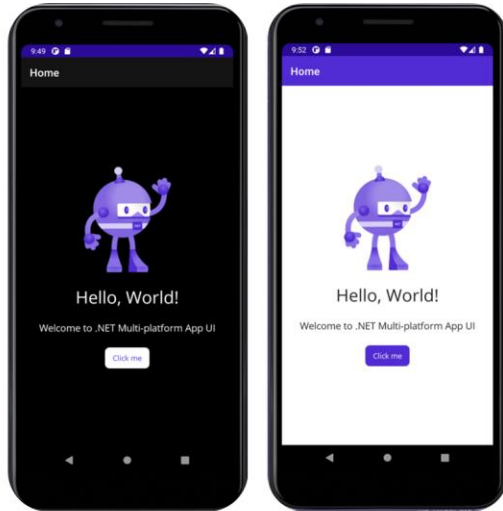
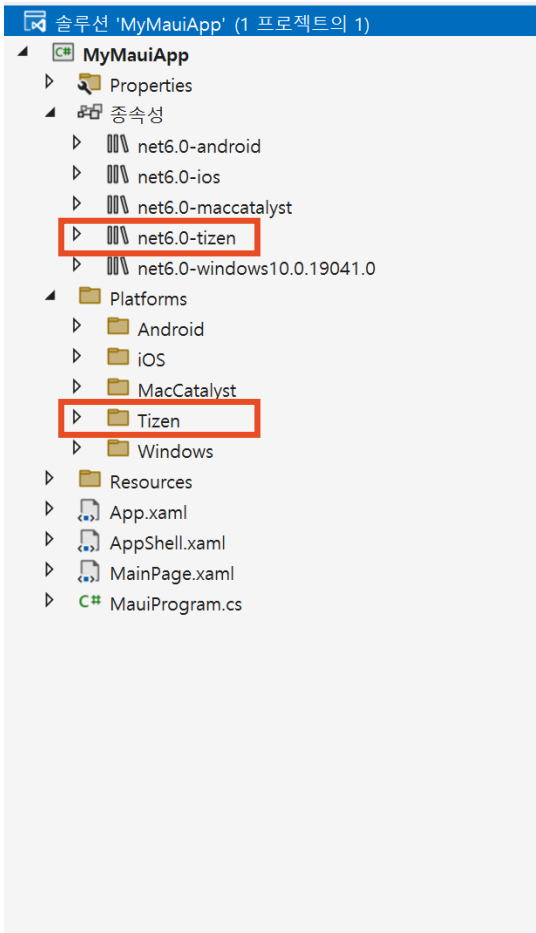
C# Android Blazor iOS Mac Catalyst macOS MAUI
Tizen  Windows

 .NET MAUI Class Library
A project for creating a .NET MAUI class library

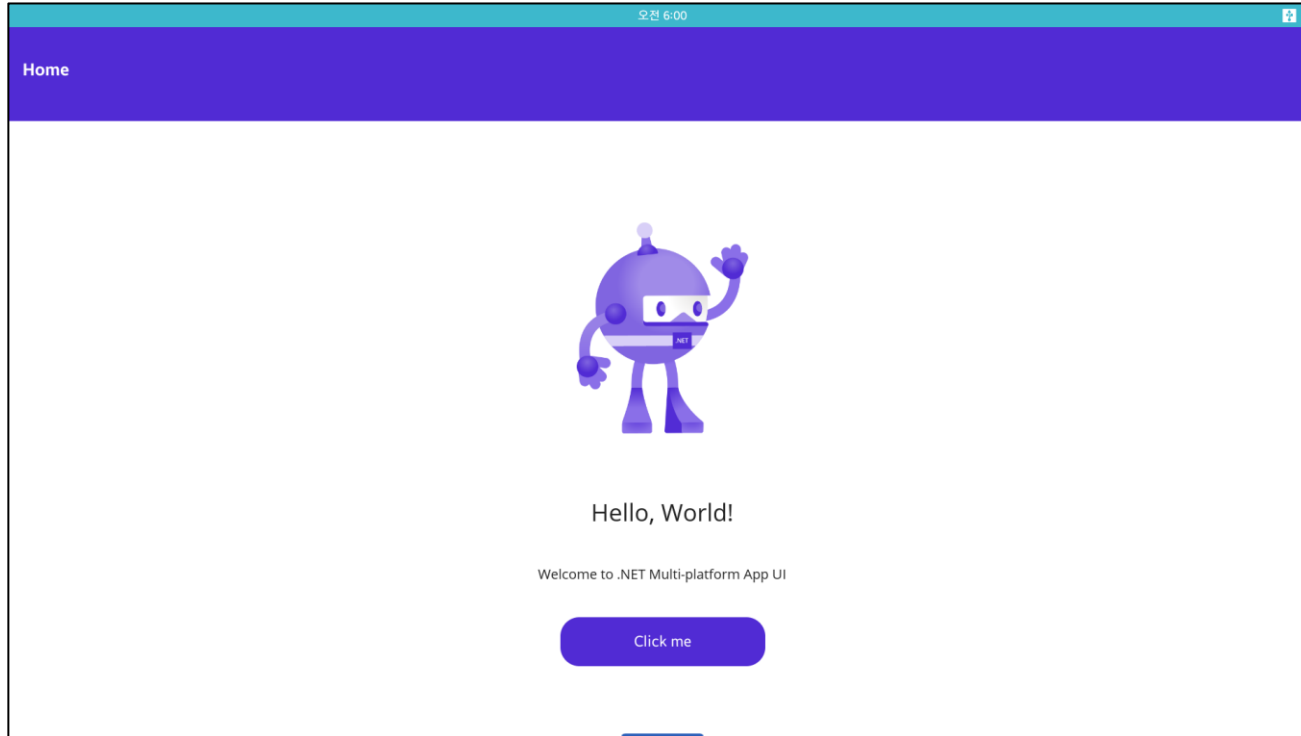
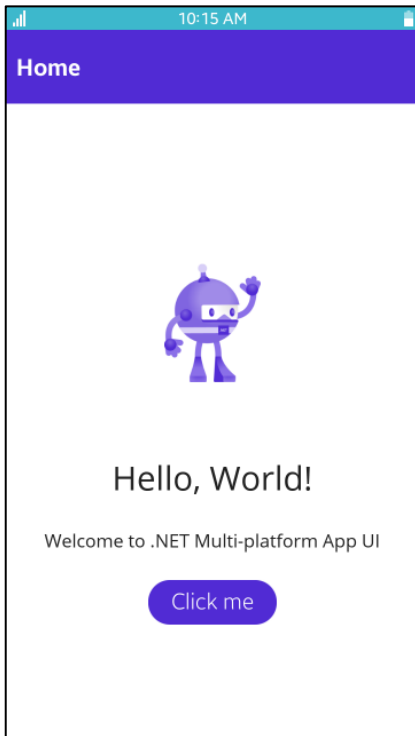
C# Android iOS Mac Catalyst macOS MAUI Tizen 
Windows

.NET

Summary



Summary



Summary

10:14

Orders

Hello

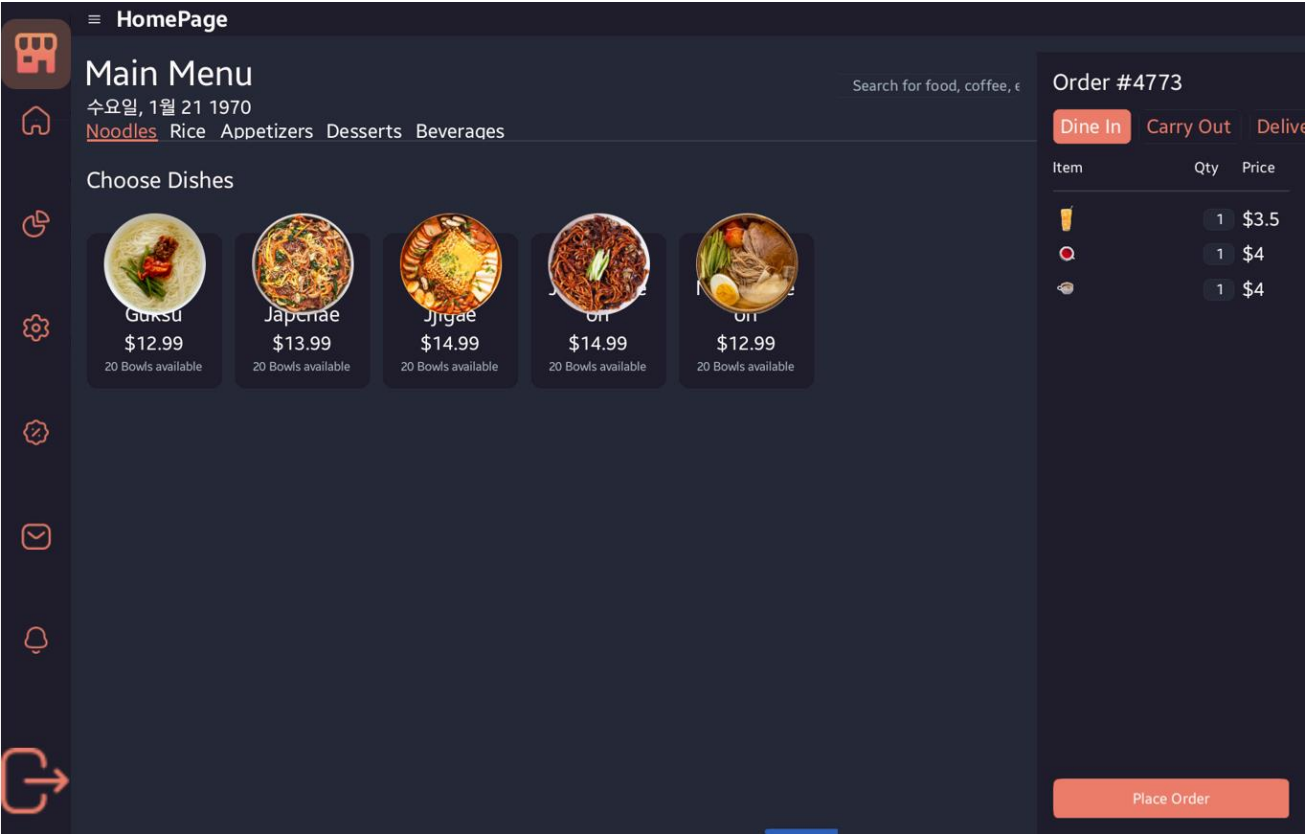
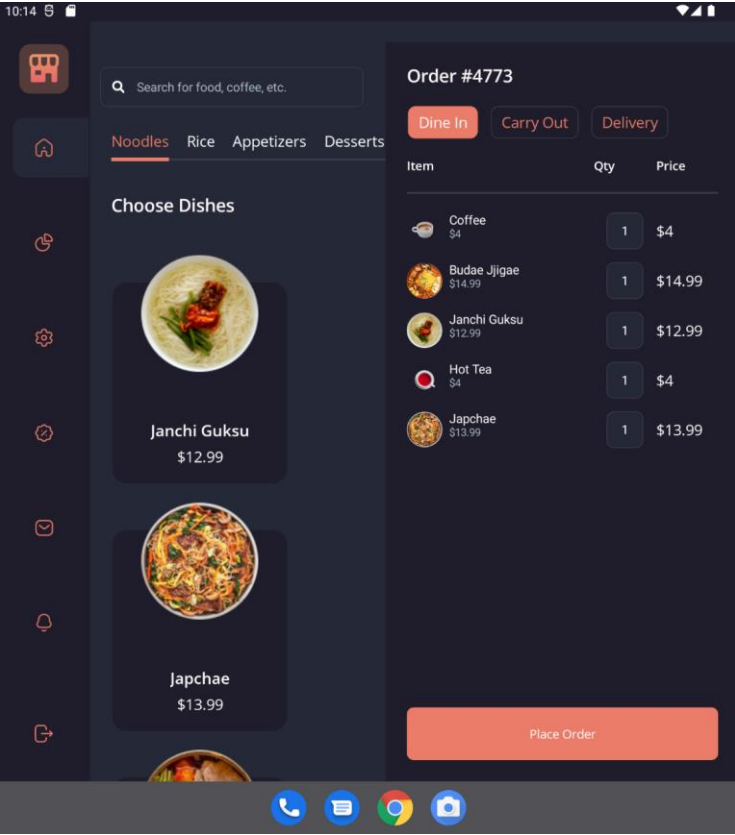
10	\$18.99	Ready to Pay
8	\$58.96	Cooking
7	\$4.00	Cooking
13	\$17.99	Ready to Pay
9	\$23.99	Ready to Pay
14	\$35.48	Ready to Pay
11	\$80.45	Cooking
12	\$29.98	Ready to Pay

Orders

Hello

Table	Total	Status
7	\$54.97	Ready to Pay
10	\$2.50	Ready to Pay
12	\$28.98	Cooking
9	\$42.48	Ready to Pay
13	\$2.50	Cooking
11	\$8.50	Ready to Pay

Summary



Summary

- Issue
 - Not stable due to replace backend engine
 - Visual Studio functions testing on preview
 - Question & Report
 - <https://github.com/samsung/tizen.net>
 - tizen.net@samsung.com
-



.NET