

The background image is a wide-angle aerial photograph of the Marienplatz in Munich, Germany. It features the prominent Gothic-style New Town Hall (Neues Rathaus) with its tall spire and clock tower, and the twin-towered Frauenkirche (Church of Our Lady) with its green domes. The square is filled with people and surrounded by historic buildings under a blue sky with scattered white clouds.

Expert Day for Xamarin

Free event, for the community, by the community. June 14, 2019

White label apps with Xamarin.Forms

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About me

- Alexander Witkowsky -> Alex
- Microsoft MVP
- Developer, Consultant & Trainer
- Dipl.-Ing. Informationssystemtechnik
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What is a white label app?

Image removed online ;)

Imagine a Company that
holds a lot of different brands



Goals

- Different App-Metadata
- Different resources (Images, Text etc.)
- Different features
- Different configuration
- Different colors

Preparation

- Adding Flavor element to csproj

```
<PropertyGroup>
    <Flavor Condition="$(Flavor)'' == '' " Demo1</Flavor>
    <!-- set default Flavor/Brand -->
</PropertyGroup>
```

App meta data

- Different AndroidManifest
 - \$(Flavor) placeholder

```
<AndroidManifest>Flavors\$(Flavor)\AndroidManifest.xml</AndroidManifest>
```

```
<None Include="Flavors\$(Flavor)\AndroidManifest.xml" />
```

App meta data

- Different Info.plist
 - VS4Mac working
 - VS on Windows need pre build script

```
<None Include="Falvor\$(Falvor)\Info.plist">
    <SubType>Designer</SubType>
    <Link>Info.plist</Link>
</None>
```

Developers Developers Developers

- Make Brand switching developer friendly
- Introduce new configuration with defined flavor

```
<PropertyGroup Condition="'$(Configuration)|(Platform)' == 'Debug-Flavor2|AnyCPU'>
| <Flavor>Flavor2</Flavor>
```

Different Resources

- Android:

```
<AndroidResource Include="Flavor\$(Flavor)\MyImage.png">
|   <Link>Resources\drawable\MyImage.png</Link>
</AndroidResource>
```

- iOS:

```
<BundleResource Include="Flavor\$(Flavor)\MyImage.png">
|   <Link>Resources\MyImage.png</Link>
</BundleResource>
```

Different features

- Create a Flavors enum
- Add a class with flavor specific values
- Setup feature toggles

```
public enum Flavors
{
    Flavor1,
    Flavor2
}

public static class Settings
{
    public static string ApiBaseAddress = "https://flavor1.com";
    public static string TestString = "Flavor1";
    public static bool IsFeatureAEnabled = true;
    public static bool IsFeatureBEnabled = false;
    public static Flavors Flavor = Flavors.Flavor1;
}
```

Different features

- Check feature toggle

```
if(Settings.IsEnabled)
{
    switch (Settings.Flavor)
{

```

Different configuration

- Use values from flavor specific config

```
public static class Settings
{
    public static string ApiBaseAddress = "https://flavor1.com";
    public static string TestString = "Flavor1";
    public static bool IsFeatureAEnabled = true;
    public static bool IsFeatureBEnabled = false;
    public static Flavors Flavor = Flavors.Flavor1;
}
```

```
DemoLabel.Text = Settings.TestString;
```

Different colors

- Merge flavor specific resource dictionaries

```
public App()
{
    InitializeComponent();
    var flavorResources = GetFlavorResources();
    Resources.MergedDictionaries.Add(flavorResources);
}
```

Tipps

- Always provide full featured version
- Integrate flavors in CI Build

Questions





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