

第16期-本地化与多语言

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ABP 的本地化系统与微软 .NET Core 本地化系统无缝集成，并与 ASP.NET Core 本地化兼容，它添加了一些实用功能和增强功能，使其更易于在实际开发中应用。

安装本地化模块包

```
Install-Package Volo.Abp.Localization  
abp add-package Volo.Abp.Localization
```

```
[DependsOn(typeof(AbpLocalizationModule))]  
public class MyModule : AbpModule
```

创建本地化资源

```
public class TestResource  
{  
  
    {  
  
        "culture": "en",  
        "texts": {  
            "HelloWorld": "Hello World!"  
        }  
    }  
  
    {  
        "culture": "zh-Hans",  
        "texts": {  
            "HelloWorld": "世界，您好！"  
        }  
    }  
}  
  
<ItemGroup>  
    <EmbeddedResource Include="MyResources\**" />  
</ItemGroup>  
  
Configure<AbpLocalizationOptions>(options =>  
{  
    options.Resources.Add<TestResource>("en").AddVirtualJson("/Resources");  
});  
  
app.UseRequestLocalization("en", "zh-Hans");
```

<https://localhost:5001/app1/hello?culture=zh-cn>

简化本地资源名称

```
[LocalizationResourceName("Test")]
public class TestResource
{
}
```

继承其它资源

```
[InheritResource(typeof(AbpValidationResource))]
public class TestResource
{
}
```

```
Configure<AbpLocalizationOptions>(options =>
{
    options.Resources.Add<TestResource>("en")
        .AddVirtualJson("/Resources")
        .AddBaseTypes(typeof(AbpValidationResource));
});
```

扩展现有资源

```
services.Configure<AbpLocalizationOptions>(options =>
{
    options.Resources
        .Get<TestResource>()
        .AddVirtualJson("/Resources");
});
```

设置默认资源

```
Configure<AbpLocalizationOptions>(options =>
{
    options.DefaultResourceType = typeof(TestResource);
});
```

在类中使用本地化资源文件

```
public class MyService
{
    private readonly IStringLocalizer<TestResource> _localizer;
```

```

public MyService(IStringLocalizer<TestResource> localizer)
{
    _localizer = localizer;
}

public void Foo()
{
    var str = _localizer["HelloWorld"];
}
}

```

格式化参数

模板: Hello {0}, welcome! 使用: `_localizer["HelloMessage", "John"]`

在 Razor 视图中使用本地化资源文件

```
@inject IHtmlLocalizer<TestResource> Localizer
```

```
<h1>@Localizer["HelloWorld"]</h1>
```

客户端脚本使用本地资源文件

配置路径

<https://localhost:5001/api/abp/application-configuration>

安装前端包

```

npm install @abp/core
npm install gulp
npm install jquery

```

Gulpfile 任务

```

var gulp = require("gulp");

gulp.task('copyfile', function () {
    gulp.src('./node_modules/@abp/core/src/
*').pipe(gulp.dest('./wwwroot/libs/abp'));
    gulp.src('./node_modules/jquery/dist/
*').pipe(gulp.dest('./wwwroot/libs/jquery'))
});

```

在前端使用资源

```

var testResource = abp.localization.getResource('Test');
var str = testResource('HelloWorld');

var str = abp.localization.localize('HelloWorld', 'Test');
var str = abp.localization.localize('HelloWorld'); //uses the default resource

//Format Arguments
var str1 = abp.localization.getResource('Test')('HelloWelcomeMessage', 'John');
var str2 = abp.localization.localize('HelloWorld', 'Test', 'John');

```

网页代码示例

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <title>Test</title>

    <script src="libs/abp/abp.js"></script>
    <script src="libs/jquery/jquery.min.js"></script>
    <script src="/Abp/ApplicationConfigurationScript"></script>
</head>
<body>
    <h1 id="content"></h1>
    <script>
        document.cookie = '.AspNetCore.Culture=c=zh-Hans|uic=zh-Hans';
        var str = abp.localization.localize('HelloWorld');
        document.getElementById("content").innerText = str;
    </script>
</body>
</html>

```

在 Angular 中使用本地化资源

<https://docs.abp.io/zh-Hans/abp/latest/UI/Angular/Localization>

参考资料

<https://docs.microsoft.com/zh-cn/aspnet/core/fundamentals/localization>