现代操作系统应用开发实验报告

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姓名: 郑柏川 **实验名称: Background Execution& Application**

Lifecycle

一.参考资料

百度相关资料

Windows. Storage. AccessCache. StorageApplicationPermissions. FutureAccessList. GetFile Async

二.实验步骤

关于 mainpage 的数据保存:

```
protected override void OnNavigatedFrom(NavigationEventArgs e)
{
    ApplicationDataCompositeValue composite = new ApplicationDataCompositeValue();
    composite["checkbox1"] = (bool)checkbox1. IsChecked;
    composite["checkbox2"] = (bool)checkbox2. IsChecked;
    ApplicationData. Current. LocalSettings. Values["MainPageInfo"] = composite;
}
```

关于 mainpage 的数据恢复:

```
protected override void OnNavigatedTo(NavigationEventArgs e)
{
    // not go back
    SystemNavigationManager.GetForCurrentView().AppViewBackButtonVisibility = AppViewBackButtonVisibility.Collapsed;

    // data recovering
    if (ApplicationData.Current.LocalSettings.Values.ContainsKey("MainPageInfo"))
        var composite = ApplicationData.Current.LocalSettings.Values["MainPageInfo"] as ApplicationDataCompositeValue;

    bool c1, c2;
    c1 = (bool)composite["checkbox1"];
    c2 = (bool)composite["checkbox2"];
    checkbox1.IsChecked = c1;
    checkbox1.IsChecked = c2;
    line1.Visibility = c1 ? Visibility.Visible : Visibility.Collapsed;
    line2.Visibility = c2 ? Visibility.Visible : Visibility.Collapsed;
    // finish data recovering
    ApplicationData.Current.LocalSettings.Values.Remove("MainPageInfo");
}
```

Newpage 的数据保存:

```
protected override void OnNavigatedFrom(NavigationEventArgs e)
{
    ApplicationDataCompositeValue composite = new ApplicationDataCompositeValue();
    composite["Title"] = title.Text;
    composite["Detail"] = details.Text;
    composite["DueDate"] = datepicker.Date;

if (ImageData != null)
{
    // 讲被选择的图片文件保存到FutureAccessList,并且保存token到composite中
    string token = Windows.Storage.AccessCache.StorageApplicationPermissions.FutureAccessList.Add(ImageDatacomposite["imagedata"] = token;
}
else
{
    composite["ImageData"] = "no";
}

ApplicationData.Current.LocalSettings.Values["NewPageInfo"] = composite;
}
```

Newpage 的数据恢复:

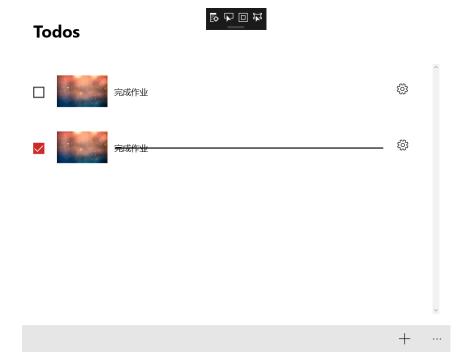
```
protected override async void OnNavigatedTo(NavigationEventArgs e)
    SystemNavigationManager.GetForCurrentView().AppViewBackButtonVisibility = AppViewBackButtonVisibility.Vi
    // 恢复数据
    if (ApplicationData. Current. LocalSettings. Values. ContainsKey("NewPageInfo"))
        var composite = ApplicationData. Current. LocalSettings. Values["NewPageInfo"] as ApplicationDataCompos
        title.Text = (string)composite["Title"];
details.Text = (string)composite["Detail"];
        datepicker.Date = (DateTimeOffset)composite["DueDate"];
        // 获取token
        string token = (string)composite["ImageData"];
        if (token != "no")
            ImageData = await Windows. Storage. AccessCache. StorageApplicationPermissions. FutureAccessList. Get
            Windows. Storage. AccessCache. StorageApplicationPermissions. FutureAccessList. Remove (token);
            var fileStream = await ImageData.OpenReadAsync();
            var bitmapImage = new BitmapImage();
            await bitmapImage. SetSourceAsync(fileStream);
            img. Source = bitmapImage;
```

三. 实验结果截图

Edit Todo Item



	select
Title	
12	
Details	
12	×
Due Date	
2017年 3月	22日



四.实验过程遇到的问题

图片保存问题,最后查找 api 解决

五.思考与总结

本次实验较简单,只要数据的保存恢复即可