现代操作系统应用开发实验报告

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一.参考资料

请在这里列出对本实验有帮助你所参考的资料或者网站。

资料: 2017week4课件、2017-homework4.pptx课件、2017-homework4-demo

2017-week4-demo 等等

二.实验步骤

请在这里简要写下你的实验过程。

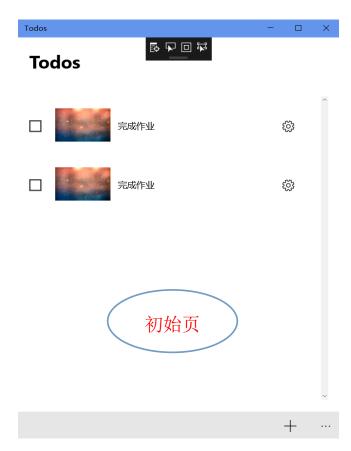
这次实验比较简单,TA 给的 demo 也很全,再加上 homework 课件上给了 OnNavigationTo 方法的实现,所以依样画葫芦,很快就实现了要求的功能。 既然说是实验过程,下面简单罗列一下步骤吧。

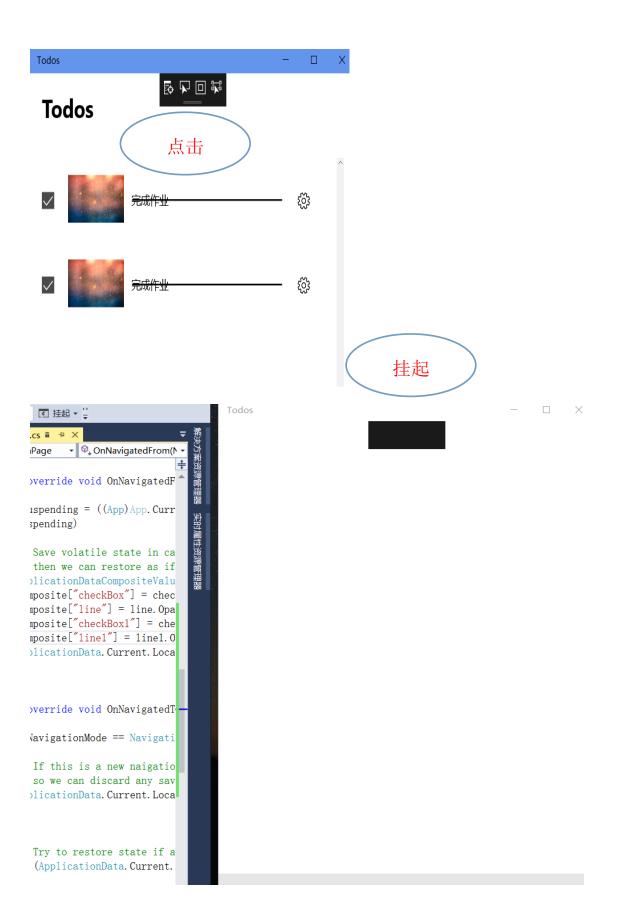
- ① 这次实验主要通过课件和 demo 就能完成,时间也大部分花在这里。从老师的课件开始, 简单学习 Application Lifecycle。
- ② 运行老师给的 demo。一开始没添加如图所示的引用:无法运行。解决了这个问题并运行后,发现给的 demo 不就是我们实验要实现的功能,至少大同小异。(愉快)

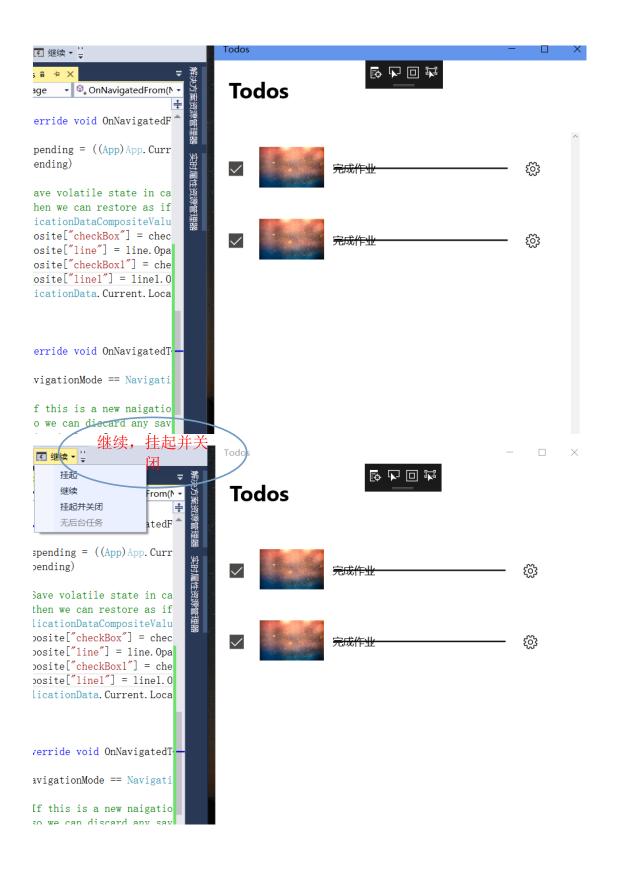
- ③ 仔细分析了课件 demo 的代码,对 Application Lifecycle 有了更深地理解了。接下来看作业要求,发现里面 Newpage 的 OnNavigationTo 已经帮我们实现好了,OnNavigationFrom 也给了很多提示,感谢 TA!
- ④ 接下来就是实现功能了。逻辑很简单,这个过程花的时间较短。这里不作详述,在第四点【实验过程遇到的问题】再陈述。

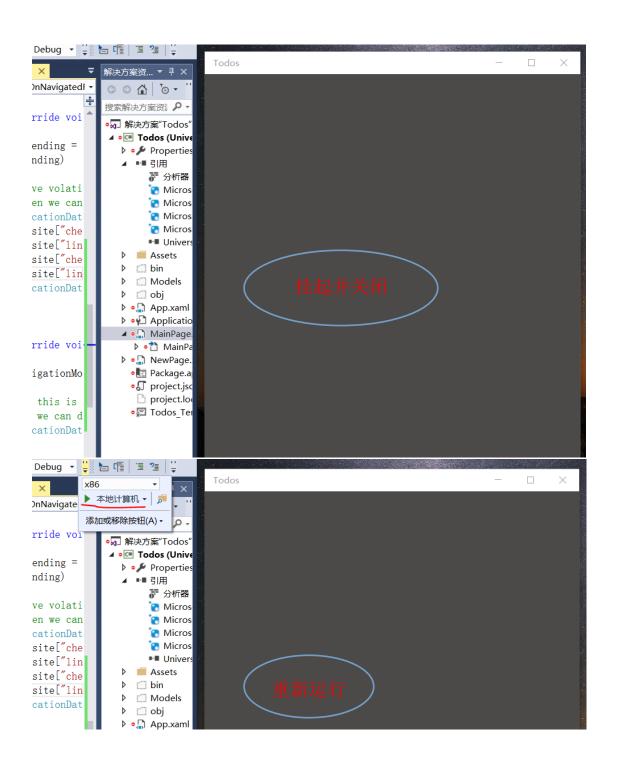
三. 实验结果截图

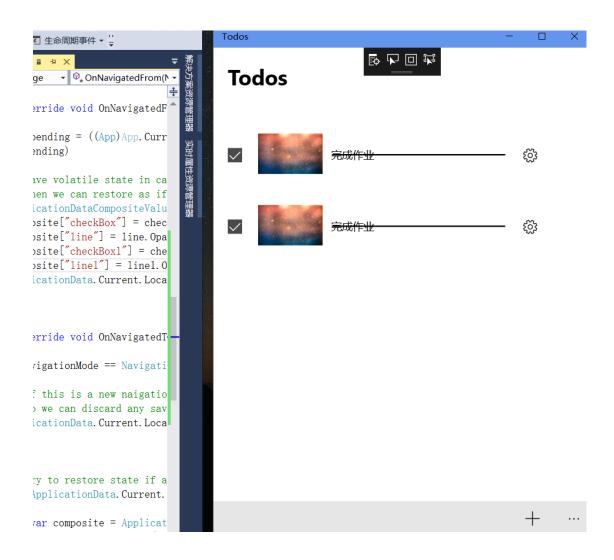
请在这里把实验所得的运行结果截图。

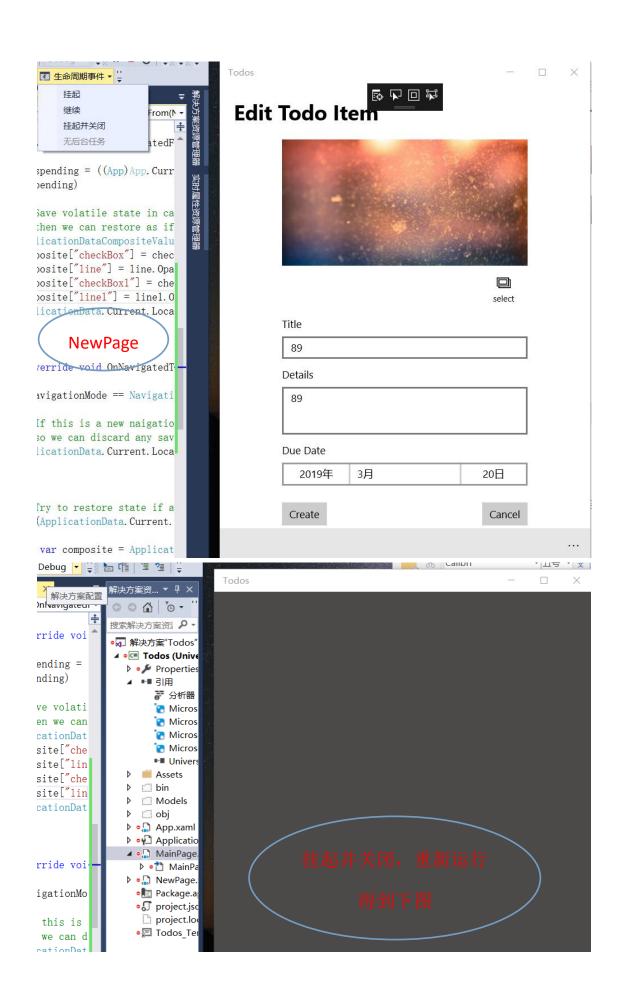


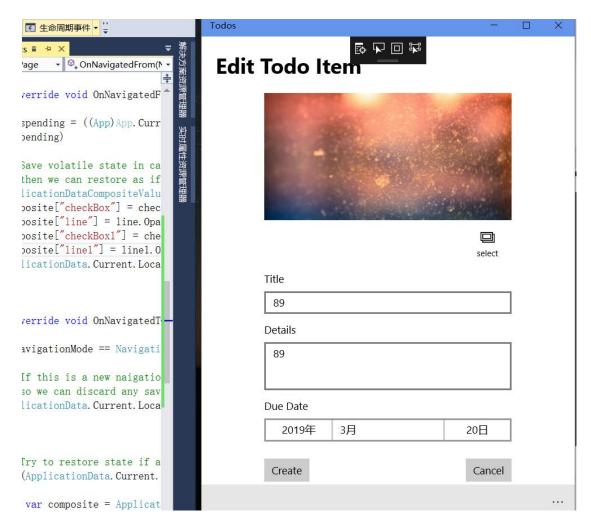












四. 实验过程遇到的问题

请在这里写下你在实验过程中遇到的问题以及解决方案。

① Line 不能用 Visibility,用 Opacity,因为 Visibility无法转换储存在 composite中,Opacity是 double类型,所以可以。

代码如下:

```
protected override void OnNavigatedFrom(NavigationEventArgs e)
     bool suspending = ((App) App. Current). IsSuspending;
     if (suspending)
         // Save volatile state in case we get terminated later on
         // then we can restore as if we'd never been gone
         ApplicationDataCompositeValue composite = new ApplicationDataCompositeValue();
         composite["checkBox"] = checkBox. IsChecked;
         composite["line"] = line.Opacity;
         composite["checkBox1"] = checkBox1. IsChecked;
         composite["line1"] = line1. Opacity;
         ApplicationData. Current. LocalSettings. Values["newpage"] = composite;
 }
protected override void OnNavigatedTo(NavigationEventArgs e)
    if (e. NavigationMode == NavigationMode. New)
        // If this is a new naigation, this is a fresh launch
        // so we can discard any saved state
        ApplicationData. Current. LocalSettings. Values. Remove ("newpage");
    else
        // Try to restore state if any, in case we were terminated
        if (ApplicationData. Current. LocalSettings. Values. ContainsKey("newpage"))
            var composite = ApplicationData. Current. LocalSettings. Values["newpage"]
                as ApplicationDataCompositeValue;
            checkBox. IsChecked = (bool)composite["checkBox"];
            line.Opacity = (double)composite["line"];
            checkBox1. IsChecked = (boo1) composite["checkBox1"];
            line1.Opacity = (double)composite["line1"];
            // We're done with it, so remove it
            ApplicationData. Current. LocalSettings. Values. Remove ("newpage");
}
```

② 不要忘记在 App.xaml.cs 中加入 public bool IsSuspending = false;

在 OnSuspending 函数里加入 IsSuspending = true;

③ 在 NewPage.xaml.cs 中,注意类型的转换。代码如下:

```
protected override void OnNavigatedFrom(NavigationEventArgs e)
    bool suspending = ((App) App. Current). IsSuspending;
    if (suspending)
       // Save volatile state in case we get terminated later on
       // then we can restore as if we'd never been gone
       ApplicationDataCompositeValue composite = new ApplicationDataCompositeValue();
        composite["title"] = title.Text;
        composite["details"] = details.Text;
        composite["date"] = date.Date;
        ApplicationData. Current. LocalSettings. Values["newpage"] = composite;
}
protected override void OnNavigatedTo(NavigationEventArgs e)
    if (e. NavigationMode == NavigationMode. New)
        // If this is a new naigation, this is a fresh launch
        // so we can discard any saved state
        ApplicationData. Current. LocalSettings. Values. Remove ("newpage");
    else
        // Try to restore state if any, in case we were terminated
        if (ApplicationData. Current. LocalSettings. Values. ContainsKey("newpage"))
            var composite = ApplicationData. Current. LocalSettings. Values["newpage"]
                 as ApplicationDataCompositeValue;
            title.Text = (string)composite["title"];
            details. Text = (string)composite["details"];
            date. Date = (DateTimeOffset) composite["date"];
            // We're done with it, so remove it
            ApplicationData. Current. LocalSettings. Values. Remove ("newpage");
```

五.思考与总结

请在这里写下你本次试验的心得体会以及所思所想。

心得体会:这次实验比较简单,花的时间很少,主要学习 Application Lifecycle,继续加油继续努力!

- 1. 实验报告提交格式为 pdf。
- 2. 实验内容不允许抄袭,我们要进行代码相似度对比。如发现抄袭,按0分处理。