

MCSD:Windows Metro style Apps using C# 70-484

**Microsoft Essentials of Developing Windows Store
Apps using C#**

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Case Study: 1

Scenario 1

Background

You are developing a Windows Store app by using C# and XAML. The app will allow users to share and rate photos. The app will also provide information to users about photo competitions.

Application Structure

The app stores data by using a class that is derived from the `DataStoreBase` class.

The app coordinates content between users by making calls to a centralized RESTful web service.

The app has a reminder system that displays toast notifications when a photo competition is almost over. The app gets the competition schedule data from the web service.

The app displays a list of images that are available for viewing in a data-bound list box. The image file list stores paths to the image files. The app downloads new images from the web service on a regular basis.

Relevant portions of the app files are shown. (Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

Business Requirements

The app must allow users to do the following:

- Run the app on a variety of devices, including devices that have limited bandwidth connections.
- Share and synchronize high resolution photographs that are greater than 1 MB in size.
- Rate each photo on a scale from 1 through 5.

Technical Requirements

The app must meet the following technical requirements:

- Retain state for each user and each device.
- Restore previously saved state each time the app is launched.
- Preserve user state and photo edits when switching between this app and other apps.
- When the app resumes after a period of suspension, refresh the user interface, tile images, and data with current information from the web service.
- Update the image list box as new images are added to the image file list.
- Convert the image paths into images when binding the image file list to the list box.

The app must store cached images on the device only, and must display images or notifications on the app tile to meet the following requirements:

- Regularly update the app tile with random images from the user's collection displayed one at a time.
- When a photo is displayed on the tile, one of the following badges must be displayed:
- If the photo has a user rating, the tile must display the average user rating as a

badge.

- If the photo does not have a rating, the tile must display the Unavailable glyph as a badge.
- Update the app tile in real time when the app receives a notification.
- Display only the most recent notification on the app tile.

The app must display toast notifications to signal the end of a photo competition. The toast notifications must meet the following requirements:

- Display toast notifications based on the schedule that is received from the web service.
- Display toast notifications for as long as possible.
- Display toast notifications regardless of whether the app is running.
- When a user clicks a toast notification that indicates the end of the photo competition, the app must display the details of the photo competition that triggered the toast notification.

App.xaml.cs

```
AX01 using System;
AX02 using Windows.ApplicationModel.Activation;
AX03 using Windows.UI.Xaml;
AX04 using Windows.UI.Xaml.Controls;
AX05 namespace Application1
AX06 {
AX07     sealed partial class App : Application
AX08     {
AX09         private DispatcherTimer tileUpdateTimer = new DispatcherTimer();
AX10         private DispatcherTimer badgeUpdateTimer = new DispatcherTimer();
AX11         public App()
AX12         {
AX13             this.InitializeComponent();
AX14             tileUpdateTimer.Tick += TileUpdateTimer_Tick;
AX15             tileUpdateTimer.Interval = new TimeSpan(0, 0, 10);
AX16             tileUpdateTimer.Start();
AX17             badgeUpdateTimer.Tick += BadgeUpdateTimer_Tick;
AX18             badgeUpdateTimer.Interval = new TimeSpan(0, 1, 0);
AX19             badgeUpdateTimer.Start();
AX20         }
AX21         private void SendNotification(XmlDocument currentTemplate)
AX22         {
AX23             var tileUpdater = TileUpdateManager.CreateTileUpdaterForApplication();
AX24             tileUpdater.Update(currentTemplate);
AX25         }
AX26         void TileUpdateTimer_Tick(object sender, object e)
AX27         {
AX28             SendNotification(currentTemplate);
AX29         }
AX30         void BadgeUpdateTimer_Tick(object sender, object e)
AX31         {
AX32             ...
AX33         }
AX34         protected override void OnLaunched(LaunchActivatedEventArgs args)
AX35         {
AX36             var rootFrame = new Frame();
AX37             rootFrame.Navigate(typeof(MainPage));
AX38             Window.Current.Content = rootFrame;
AX39             Window.Current.Activate();
AX40         }
AX41     }
AX42 }
```

DataStoreBase.cs

```
DB01 using System;
DB02 namespace Application1
DB03 {
DB04     public abstract class DataStoreBase
DB05     {
DB06         public abstract bool SaveLocalSetting(string key, string value);
DB07         public abstract bool SaveRoamingSetting(string key, string value);
DB08         public abstract bool SaveDataToWebService(string key, string jsonString);
DB09         public abstract bool SaveDataToLocalStorage(string key, string jsonString);
DB10         public abstract bool SaveDataToRoamingStorage(string key, string jsonString);
DB11         public abstract bool SaveDataToAzureStorage(string key, string jsonString);
DB12         public abstract string GetLocalSetting(string key);
DB13         public abstract string GetRoamingSetting(string key);
DB14         public abstract string GetDataFromWebService(string key);
DB15         public abstract string GetDataFromLocalStorage(string key);
DB16         public abstract string GetDataFromRoamingStorage(string key);
DB17         public abstract string GetDataFromAzureStorage(string key);
DB18     }
DB19 }
```

Question: 1

You need to ensure that launching the app displays the required information.
From which ApplicationExecutionState enumeration should you configure the user interface state?

- A. ClosedByUser
- B. Suspended
- C. NotRunning
- D. Running
- E. Terminated

Answer: A

Explanation:

* ClosedByUser

The user closes the app through the close gesture or Alt+F4 and takes longer than 10 seconds to activate the app again.

*From scenario: The app must meet the following technical requirements:

Retain state for each user and each device.

Restore previously saved state each time the app is launched.

Question: 2

You need to choose the appropriate data binding strategy for the image list box.
Which method should you use?

- A. System.Drawing.ImageConverter.ConvertToString()
- B. IValueConverter.ConvertBack()
- C. IValueConverter.Convert()
- D. System.Drawing. ImageConverter-ConvertFromStrin()

Answer: C

Explanation:

IValueConverter.Convert

The data binding engine calls this method when it propagates a value from the binding source to the binding target.

Question: 3

You need to configure toast notifications for the photo competition.
Which code segment should you use?

- ☐ A `((XmlElement)currentTemplate.CreateElement("notify")).SetAttribute("duration", "5000");`
- ☐ B `((XmlElement)currentTemplate.GetElementsByTagName("toast")[0]).SetAttribute("duration", "long");`
- ☐ C `((XmlElement)currentTemplate.GetElementsByTagName("toast")[0]).SetAttribute("duration", "short");`
- ☐ D `((XmlElement)currentTemplate.CreateElement("duration")).SetAttribute("value", "long");`

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

Explanation:

The app must display toast notifications to signal the end of a photo competition. The toast notifications must meet the following requirements:

/ Display toast notifications for as long as possible

Question: 4

You need to ensure that only the correct information is preserved when the user switches to another app.

Which actions should you perform? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Save application state by calling the `SaveDataToRoamingStorage()` method,
B. Save photographs by calling the `SaveDataToLocalStorage()` method.
C. Save photographs by calling the `SaveDataToWebService()` method.

D. save application state by calling the `SaveDataToLocalStorage()` method.

Answer: A, B

Explanation:

A: From scenario: The app must meet the following technical requirements:

Retain state for each user and each device.

B: From scenario: The app must store cached images on the device only

Question: 5

You need to ensure that the app resumes according to the requirements.

Which actions should you perform? (Each correct answer presents part of the solution. Choose all that apply.)

A. Retrieve new user content by using the `Window.Current.Dispatcher.ProcessEvents()` method in the `App_Resume` event handler.

B. update the user interface by using the `Window.Current.Dispatcher.Invoke()` method in the `App_Resume` event handler.

C. Override the `OnLaunched` event handler.

D. Retrieve new user content by using the `Window.Current.Dispatcher.ProcessEvents()` method in the `OnLaunched` event handler when the `ActivationKind` is `Launch`.

E. Update the user interface by using the `Window.Current.Dispatcher.Invoke()` method in the `OnLaunched` event handler when the `ActivationKind` is `Launch`.

F. Register the `App_Resume` event handler for the `Resume` event.

Answer: A, B

Explanation:

From scenario:

The app must meet the following technical requirements:

/ When the app resumes after a period of suspension, refresh the user interface, tile images, and data with current information from the web service.

Question: 6

You need to choose the appropriate data binding strategy for the image list box.

Which method should you use?

A. `System.Drawing.ImageConverter.ConvertTo(value, typeof(Image))`

B. `IValueConverter.Convert()`

C. `System.Drawing.ImageConverter.ConvertFrom(value, typeof(Image), CultureInfo.Current.UICulture)`

D. `IValueConverter.ConvertBack()`

Answer: B

Explanation:

IValueConverter.Convert

The data binding engine calls this method when it propagates a value from the binding source to the binding target.

Question: 7

A photo competition is ending.

You need to meet the requirements when a user clicks the toast notification.

Which code segment should you use?

- A.

```
((XmlElement)currentTemplate.GetElementsByTagName("binding")[0]).SetAttribute("trigger", competitionID);
```
- B.

```
currentTemplate.GetElementsByTagName("binding").First().AppendChild(currentTemplate.CreateTextNode(competitionID));
```
- C.

```
currentTemplate.GetElementsByTagName("toast").First().AppendChild(currentTemplate.CreateTextNode(competitionID));
```
- D.

```
((XmlElement)currentTemplate.GetElementsByTagName("toast")[0]).SetAttribute("launch", competitionID);
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: D

Explanation:

From scenario:

When a user clicks a toast notification that indicates the end of the photo competition, the app must display the details of the photo competition that triggered the toast notification.

Question: 8

DRAG DROP

You need to update the app tile images.

With which four code segments in sequence should you replace line AX23? (To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.)

Answer Area

```
var tileUpdater =  
TileUpdateManager.CreateTileUpda  
terForApplication();  
tileUpdater.Insert  
(new TileNotification  
(currentTemplate));
```

```
currentTemplate =  
TileUpdateManager.GetTemplateCon  
tent  
(TileTemplateType.TileWideImage)  
;
```

```
currentTemplate.GetXml();
```

```
var tileUpdater =  
TileUpdateManager.CreateTileUpda  
terForApplication();  
tileUpdater.Update  
(new TileNotification  
(currentTemplate));
```

```
imageNode.SetAttribute  
("src", string.Format("ms-  
appdata://{0}", GetRandomImage  
()));
```

```
var imageNode = (XmlElement)  
currentTemplate.GetElementsByTagName  
("image")[0];
```

```
imageNode.SetAttribute  
("src", string.Format("ms-  
appx://{0}", GetRandomImage()));
```

Answer:

Box 1:

```
currentTemplate.GetXml();
```

Box 2:

```
var tileUpdater =  
TileUpdateManager.CreateTileUpda  
terForApplication();  
tileUpdater.Update  
(new TileNotification  
(currentTemplate));
```

Box 3:

```
var imageNode = (XmlElement)  
currentTemplate.GetElementsByTag  
Name("image")[0];
```

Box 4:

```
imageNode.SetAttribute  
("src", string.Format("ms-  
appdata://{0}", GetRandomImage  
()));
```

Explanation:

Note:

* From scenario:

/ Regularly update the app tile with random images from the user's collection displayed one at a time.

* What is the difference between ms-appx:/// and ms-appdata:///

The bird's eye view is that ms-appx is your app package (where the app is installed), and ms-appdata is your application data .

Question: 9

You need to identify the class to use as the data context for the image list box.

Which class should you use?

- A. System.Collections.ObjectModel.CollectionObserver<T>
- B. System.Collections.ObjectModel.ObservableCollection<T>
- C. System.Collections.Generic.IEnumerator<T>
- D. System.Collections.Generic.IEnumerable<T>

Answer: B

Explanation:

ObservableCollection<T> Class

Represents a dynamic data collection that provides notifications when items get added, removed, or when the whole list is refreshed.

Question: 10

You need to correctly display notifications on the app tile.

Which code segments should you insert at line AX24? (Each correct answer presents part of the

solution. Choose all that apply.)

- A. `tileUpdater.EnableNotificationQueue(false);`
- B. `tileUpdater.EnableNotificationQueue(true);`
- C. `tileUpdater.Update(new TileNotification(currentTemplate)
{ ExpirationTime = DateTimeOffset.Now.AddMinutes(10) });`
- D. `tileUpdater.AddToSchedule(new ScheduledTileNotification(
currentTemplate, DateTimeOffset.Now.AddMinutes(10)));`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B, D

Explanation:

B: `TileUpdater.EnableNotificationQueue` | `enableNotificationQueue` method

Enables the tile to queue up to five notifications. This enables the notification queue on all tile sizes.

D: From scenario:

Display toast notifications based on the schedule that is received from the web service.

Question: 11

You need to ensure that resuming the app displays the required information.

From which `ApplicationExecutionState` enumeration should you configure the user interface state?

- A. Terminated
- B. NotRunning
- C. Suspended
- D. Running
- E. ClosedByUser

Answer: E

Explanation:

* `ClosedByUser`

The user closes the app through the close gesture or `Alt+F4` and takes longer than 10 seconds to activate the app again.

*From scenario: The app must meet the following technical requirements:

Retain state for each user and each device.

Restore previously saved state each time the app is launched.

Question: 12

You need to ensure that only the correct information is preserved when the user switches to another app.

Which actions should you perform? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Save photographs by calling the SaveDataToAzureStorage() method.
- B. Save application state by calling the SaveDataToLocalStorageQ method.
- C. Save application state by calling the SaveDataToRoamingStorage() method,
- D. Save photographs by calling the SaveDataToWebService() method.
- E. Save application state by calling the SaveDataToAzureStorage() method.
- F. Save photographs by calling the SaveDataToLocalStorage() method.

Answer: EF

Explanation:

C: The app must meet the following technical requirements:

- Retain state for each user and each device.
- Restore previously saved state each time the app is launched.

F: The app must store cached images on the device only

Question: 13

You need to access the remote image data according to the requirements.

Which data storage methods should you use?

- A. SaveDataToSqlAzureStorage() and GetDataFromSqlAzureStorage()
- B. SaveDataToRemoteStorage() and GetDataFromRemoteStorage()
- C. SaveDataToAzureStorage() and GetDataFromAzureStorage()
- D. SaveDataToWebService() and GetDataFromWebService()

Answer: C

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