

## Exam Questions 70-357

Developing Mobile Apps

<https://www.2passeasy.com/dumps/70-357/>



### NEW QUESTION 1

You need to ensure that the Timeline app meets the XAML coding requirements.  
 In Settings.xaml, which markup segment should you select to replace the markup segment at line AS06?

- A**
- ```
<TextBlock Text="Date Settings" Foreground="{StaticResource fill}"
  FontFamily="{StaticResource text}"
  FontSize="{StaticResource big}" FontStyle="{StaticResource normal}"
  FontWeight="{StaticResource strong}"
  Margin="{StaticResource pad}" HorizontalAlignment="{StaticResource middle}"/>
```
- B**
- ```
<TextBlock Text="Date Settings" Foreground="{StaticResource fill}"
  FontFamily="Normal"
  FontSize="{StaticResource big}" FontStyle="Normal"
  FontWeight="{StaticResource strong}"
  Margin="{StaticResource pad}" HorizontalAlignment="{StaticResource middle}"/>
```
- C**
- ```
<TextBlock Text="Date Settings" Style="{ ThemeResource heading }" />
```
- D**
- ```
<TextBlock Text="Date Settings" Style="{ StaticResource heading }" />
```

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

**Answer:** A

**Explanation:** From scenario: All code and markup must conform to the following style guidelines:

? Use resource dictionaries for styles that are used more than once.

? Use built-in properties of existing panels instead of using separate style objects. XAML resources are objects that are referenced from markup more than once. Resources are defined in a ResourceDictionary, typically in a separate file or at the top of the markup page. In this scenario the ResourceDictionary is defined in the ResourceDictionary.xaml file.

You access members of the resource dictionary like any other dictionary.

### NEW QUESTION 2

You need to configure the app to meet the load time requirements. What should you do?

- A. Set the value of the CacheSize to 0.
- B. Set the value of the CacheMode property to BitmapCache.
- C. Set the value of the NavigationCacheMode property to Enabled.
- D. Set the value of the NavigationCacheMode property to Disabled.

**Answer:** C

**Explanation:** Scenario: You must optimize the app using the following guidelines:

? You must minimize the time it takes to display content when an item on the timeline is selected.

? The app must respect memory and resource constraints for all devices.

You use the NavigationCacheMode property to specify whether a new instance of the page is created for each visit to the page or if a previously constructed instance of the page that has been saved in the cache is used for each visit.

The default value for the NavigationCacheMode property is Disabled. Set the

NavigationCacheMode property to Enabled or Required when a new instance of the page is not essential for each visit. By using a cached instance of the page, you can improve the performance of your application and reduce the load on your server.

### NEW QUESTION 3

You need to design the navigation for the timeline. What navigation should you use?

- A. hierarchy
- B. peer
- C. hub
- D. master/details

**Answer:** A

**Explanation:** From scenario:

Here we can use a hierarchy with each parent node having only one single child node. Hierarchical structures are good for organizing complex content that spans lots of pages or

when pages should be viewed in a particular order. The downside is that hierarchical pages introduce some navigation overhead: the deeper the structure, the more clicks it takes for users to get from page to page.

We recommend a hierarchical structure when:

You expect the user to traverse the pages in a specific order. Arrange the hierarchy to enforce that order.

There is a clear parent-child relationship between one of the pages and the other pages in the group.

There are more than 7 pages in the group.

When there are more than 7 pages in the group, it might be difficult for users to understand how the pages are unique or to understand their current location within the group. If you don't think that's an issue for your app, go ahead and make the pages peers

#### NEW QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to implement the appropriate XAML layout for the Timeline app. Solution: You create an instance of a SplitView control.

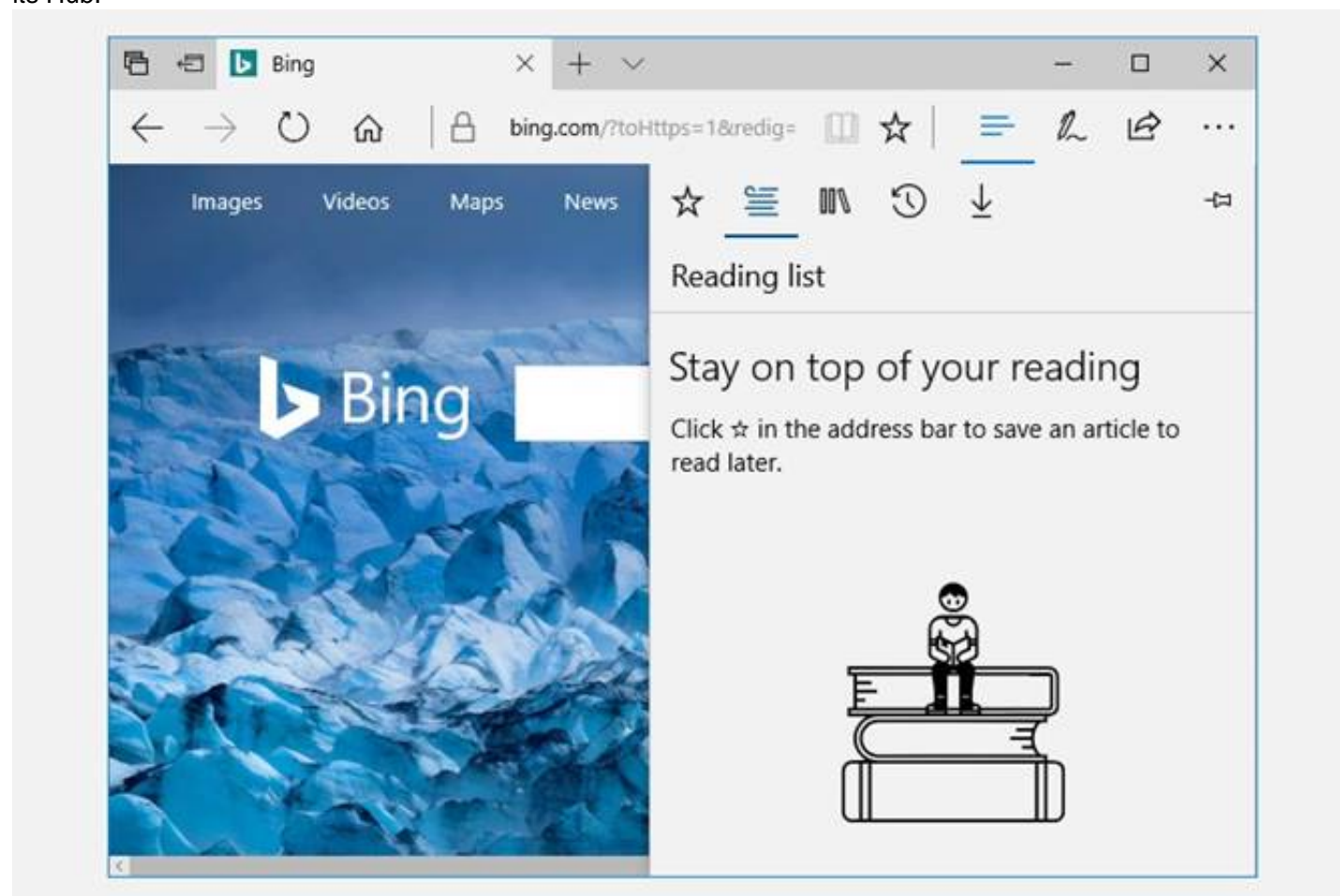
Does this meet the goal?

A. Yes

B. No

**Answer:** B

**Explanation:** A split view control has an expandable/collapsible pane and a content area. Here is an example of the Microsoft Edge app using SplitView to show its Hub.



Topic 2, Mix Questions

#### NEW QUESTION 5

HOTSPOT

You are developing a Universal Windows Platform (UWP) app that processes and displays data from your company's personnel database. Users report that one of the views in the UWP app loads slowly. You need to optimize the load time.

How should you complete the relevant markup? To answer, select the appropriate markup segment from each list in the answer area.

## Answer Area

```
<DataTemplate x:Key
    uwp:Control="GridView"
    x:Name="GridViewName"
    x:DataType="local:Person"

="GridViewDataTemplate"
    <StackPanel>
        <TextBlock Text="
            {x:Bind FirstName}
            {Binding FirstName}
            {StaticResource FirstName}

        </StackPanel>
    </DataTemplate>
```

Answer:

**Explanation:** The {x:Bind} markup extension—new for Windows 10—is an alternative to {Binding}. {x:Bind} lacks some of the features of {Binding}, but it runs in less time and less memory than {Binding} and supports better debugging. In the following example, the background and foreground of the item are bound to functions to do conversion based on the color parameter

```
<DataTemplate x:DataType="local:ColorEntry">
<Grid Background="{x:Bind Brushify(Color)}" Width="240">
<TextBlock Text="{x:Bind ColorName}" Foreground="{x:Bind TextColor(Color)}" Margin="10,5" />
</Grid>
</DataTemplate>
```

### NEW QUESTION 6

#### HOTSPOT

You are developing a Universal Windows Platform (UWP) app that stores credentials by using the Credential Locker service.

You need to securely retrieve credentials for the current user.

How should you complete the method? To answer, select the appropriate code segment from each list in the answer area.

## Answer Area

```
private void RetrieveCredentials(string resource, string userName)
{
    var identityStorage =
        new PasswordVault();
        KeyCredentialManager.OpenAsync(userName);
        CredentialPicker.PickAsync(resource, userName);

    var credentials =
        identityStorage.GetResults();
        identityStorage.Retrieve(resource, userName)
}
```

Answer:

**Explanation:** Box 1: Example:

```
var vault = new Windows.Security.Credentials.PasswordVault();
```

Box 2:

Example continued:

```
// When there are multiple usernames,
// retrieve the default username. If one doesn't
// exist, then display UI to have the user select
// a default username.
```

```
defaultUserName = GetDefaultUserNameUI();
```

```
credential = vault.Retrieve(resourceName, defaultUserName);
```



### NEW QUESTION 7

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You are developing a Universal Windows Platform (UWP) app. Your app stores files on a user's device.

You need to be able to replace the existing files with new files generated by the user.

Solution you run the `StorageFile.GetParentAsync` method to get a reference to the existing file. Then, you run the `StorageFile.CreateStreamedFileAsync` method to create the new file at that same location.

Does this meet the goal?

- A. yes
- B. No

**Answer:** A

**Explanation:** The `GetParentAsync()` method gets the parent folder of the current file. The `CreateStreamedFileAsync` method can be used to create a `StorageFile` that can be passed to other methods or passed to another app through app contracts.

### NEW QUESTION 8

HOTSPOT

You are developing a Universal Windows Platform (UWP) app that plays audio recordings.

You are creating a page where the user can set a volume level for the app using a slider control. You need to display the volume level in a `TextBox` right below the slider. You have a C# class named `VolumeConverter` that converts slider values to a number.

You have a page that includes the following markup:

```
<Page ...>
  <Page.Resources>
    <local : S2Formatter x : Key="VolumeConverter"/>
  </Page.Resources>
  <Slider x:Name="VolumeSlider"/>
  <TextBox Text="{Binding Path=Value, ElementName=VolumeSlider,
Mode=OneWay, Converter={StaticResource VolumeConverter}}"/>
</Page>
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

## Answer Area

Statement	Yes	No
VolumeConverter must implement the <code>IValueConverter</code> interface.	<input type="radio"/>	<input type="radio"/>
When a user moves the slider control, the corresponding volume level displays in the <code>TextBox</code> control.	<input type="radio"/>	<input type="radio"/>
When a user changes the value in the <code>TextBox</code> the slider will automatically move to the corresponding position.	<input type="radio"/>	<input type="radio"/>

**Answer:**

**Explanation:**

## Answer Area

Statement	Yes	No
VolumeConverter must implement the <code>IValueConverter</code> interface.	<input checked="" type="radio"/>	<input type="radio"/>
When a user moves the slider control, the corresponding volume level displays in the <code>TextBox</code> control.	<input checked="" type="radio"/>	<input type="radio"/>
When a user changes the value in the <code>TextBox</code> the slider will automatically move to the corresponding position.	<input type="radio"/>	<input checked="" type="radio"/>

### NEW QUESTION 9

DRAG DROP

You are creating a Universal Windows Platform (UWP) app that takes pictures. You want to use the camera's built-in interface for taking the pictures.

You need to capture an image from the device's built-in camera.

How should you complete the method? To answer, drag the appropriate code segments to the correct location or locations. Each code segments may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

### Code segments

CameraCaptureUI

CameraCaptureUIPhotoFprmat

MediaCapture

ImageEncodingProperties

PhotoSettings

•••••

### Answer Area

```
public async void GetImage()  
{  
    Code segment capture = new Code segment ();  
    capture.PhotoSettings.Format = CameraCaptureUIPhotoFormat.Jpeg;  
    StorageFile photo = await capture.CaptureFileAsync(CameraCaptureUIMode.Photo);  
}
```

**Answer:**

**Explanation:** Box 1: CameraCaptureUI

Box 2: CameraCaptureUI

Example: Using Windows.Media.Capture.CameraCaptureUI API to capture a photo CameraCaptureUI dialog = new CameraCaptureUI();

Size aspectRatio = new Size(16, 9); dialog.PhotoSettings.CroppedAspectRatio = aspectRatio;

StorageFile file = await dialog.CaptureFileAsync(CameraCaptureUIMode.Photo);

### NEW QUESTION 10

DRAG DROP

You are developing a Universal Windows Platform (UWP) app. A user terminates the app.

You need to ensure that the app initializes when the user starts the app.

How should you complete the method? To answers, drag the appropriate code segment to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

### Code segments

OnLaunched

SearchActivatedEventArgs args

IActivatedEventArgs args

LaunchActivatedEventArgs e

OnActivated

OnSearchActivated

OnShareTargetActivated

ShareTargetActivatedEventArgs args

•••••

### Answer Area

```
protected async override void Code segment ( Code segment  
{  
    ...  
}
```

**Answer:**

**Explanation:** The OnLaunched method is called when an app is launched. It is passed a LaunchActivatedEventArgs parameter which provides, among other things, the arguments

passed to the app, the identifier of the tile that launched the app, and the previous state that the app was in.

Box 1: OnLaunched

Box 2: LaunchActivatedEventArgs e

### NEW QUESTION 10

## HOTSPOT

You are developing a Universal Windows Platform (UWP) app. The app does not display content properly on mobile devices. You need to support smaller window sizes.

How should you complete the relevant XAML markup? To answer, select the appropriate markup segment from each list in the answer area.

### Answer Area

```
<SplitView :Name="SplitViewControl" OpenPaneLength="128">
  <VisualStateManager.VisualStateGroups>
    <VisualStateGroup>
      <VisualState>
        <VisualState.StateTriggers>
          <MediaQuery MinWindowWidth="0" MaxWindowWidth="256" />
        </VisualState.StateTriggers>
        <VisualState.Setters>
          <Setter Target="SplitViewControl.IsPaneOpen" Value="False" />
          <Setter Target="SplitViewControl.DisplayMode" Value="CompactInline" />
        </VisualState.Setters>
      </VisualState>
      <VisualState>
        <VisualState.StateTriggers>
          <MediaQuery MinWindowWidth="768" MaxWindowWidth="1024" />
        </VisualState.StateTriggers>
        <VisualState.Setters>
          <Setter Target="SplitViewControl.IsPaneOpen" Value="True" />
          <Setter Target="SplitViewControl.DisplayMode" Value="Inline" />
        </VisualState.Setters>
      </VisualState>
    </VisualStateGroup>
  </VisualStateManager.VisualStateGroups>
</SplitView>
```

### Answer:

**Explanation:** One of the tools that Microsoft gives us for building adaptive UIs in UWP apps is state triggers. The version of Windows 10 released at BUILD 2015 features one state trigger: a class named AdaptiveTrigger. AdaptiveTrigger has two important properties: MinWindowWidth and MinWindowHeight. You use AdaptiveTrigger in conjunction with Visual State Manager to adapt the UI to screens and windows of various sizes.

\* Inline

The pane is always visible and doesn't overlay the content area. The pane and content areas divide the available screen real estate.

\* CompactInline

A narrow portion of the pane is always visible in this mode, which is just wide enough to show icons. The default closed pane width is 48px, which can be modified with CompactPaneLength. If the pane is opened, it will reduce the space available for content, pushing the content out of its way.

## NEW QUESTION 12

You are developing a Universal Windows Platform (UWP) app that uses XAML and C#. The app must use the Model-View-ViewModel (MVVM) pattern.

The user interface (UI) triggers an event.

You need to bind the event to a view model method. What should you do?

- Create a custom behavior and attach the behavior to the UI element.
- Bind the behavior's event trigger to the command declared in the view model.
- Create an attached property of type ICommand.
- Bind the UI element's event to the attached property.
- Assign the value of the DataContext property to the view model.
- Use the BindingExpression.UpdateSource() method to update the data source.
- Add a strongly-typed view model property to the view.
- In the code-behind file for the view, invoke the view model method.

### Answer: B

**Explanation:** Commands are an implementation of the ICommand interface that is part of the .NET Framework. This interface is used a lot in MVVM applications.

## NEW QUESTION 15

### DRAG DROP

You are developing a Universal Windows Platform (UWP) app that needs to run on multiple types of devices.

The app must detect whether a device has a physical camera button.

For devices that have a physical camera button, you need to ensure that the app continues to function.

How should you complete the code? To answer, drag the appropriate code segments to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.



### Code segments

Windows.Phone.UI.Input  
 ApiInformation  
 IsTypePresent  
 Windows.Phone.UI.Input.HardwareButtons  
 HardwareButtons

....

### Answer Area

```
using Windows.Foundation.Metadata;

using Code segment ;

...

bool isPresent =
    Code segment * Code segment
    (" Code segment ");

if (isPresent)
{
    HardwareButtons.CameraPressed += HardwareButtons_CameraPressed;
}
```

**Answer:**

**Explanation:** Box 1: Windows.Phone.UI.Input

Box 2: ApiInformation

Box 3: IsTypePresent

Box 4: HardwareButtons

You could check and see if the backButton is present to see if it is a mobile device

bool isHardwareButtonsAPIPresent = Windows.Foundation.Metadata.ApiInformation.IsTypePresent("Windows.Phone.UI.Input.HardwareButtons")

### NEW QUESTION 16

You have two Universal Windows Platform (UWP) apps named Catalog and Research, respectively.

You need to create a service in the Catalog app that can be queried by the Research app. Which three tasks should you perform? Each correct answer presents part of the solution.

- A. Enter the package family name of the Catalog app in the Catalog app.
- B. Add a Windows Runtime component to the Catalog app.
- C. Enter the package family name of the Catalog app in the Research app.
- D. Add an app service extension to package.appmanifest file in the Research app.
- E. Add a Windows Runtime component to the Research app.
- F. Add an app service extension to package.appmanifest file in the Catalog app.

**Answer:** BCF

**Explanation:** F: Example: Add an app service extension to package.appxmanifest

In the AppServiceProvider project's Package.appxmanifest file, add the following AppService extension to the <Application> element. This example advertises the com.Microsoft.Inventory service and is what identifies this app as an app service provider. The actual service will be implemented as a background task. The app service app exposes the service to other apps

B: Create the app service

An app service is implemented as a background task. This enables a foreground application to invoke an app service in another application to perform tasks behind the scenes. Add a new Windows Runtime Component project to the solution.

C: Deploy the service app and get the package family name

The app service provider app must be deployed before you can call it from a client. You will also need the package family name of the app service app in order to call it.

### NEW QUESTION 17

HOTSPOT

You are developing a Universal Windows Platform (UWP) app. You need to implement responsive user design patterns.

Which of the following techniques are supported? To answer, select the appropriate option from each list in the answer area.



## Answer Area

Technique	Response
Reposition	<input type="text"/> <div>Supported</div> <div>Not supported</div>
Resize	<input type="text"/> <div>Supported</div> <div>Not supported</div>
Replace	<input type="text"/> <div>Supported</div> <div>Not supported</div>
Reflow	<input type="text"/> <div>Supported</div> <div>Not supported</div>
Reveal	<input type="text"/> <div>Supported</div> <div>Not supported</div>

**Answer:**

**Explanation:** Responsive design techniques

When you optimize your app's UI for specific screen widths, we say that you're creating a responsive design. Here are six responsive design techniques you can use to customize your app's UI.

\* Reposition

You can alter the location and position of app UI elements to get the most out of each device

\* Resize

You can optimize the frame size by adjusting the margins and size of UI elements.

\* Reflow

By changing the flow of UI elements based on device and orientation, your app can offer an optimal display of content-

\* Show/hide

You can show or hide UI elements based on screen real estate, or when the device supports additional functionality, specific situations, or preferred screen orientations.

\* Replace

This technique lets you switch the user interface for a specific device size-class or orientation. In this example, the nav pane and its compact, transient UI works well for a smaller device, but on a larger device tabs might be a better choice.

\* Re-architect

You can collapse or fork the architecture of your app to better target specific devices.

### NEW QUESTION 21

You are developing a Universal Windows Platform (UWP) app.

You need to provide a solution that moves the scroll bars of the ScrollViewer when a user rotates the mouse wheel.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Evaluate the CurrentPoint.Properties.MouseWheelDelta property of the PointerEventArgs objec
- B. Call the ChangeView() method of the ScrollViewer.
- C. Update the XAML of the ScrollViewer to include the PointerWheelChanged event with a new event handle
- D. Evaluate the Pointer.IsInRange property of the PointerRoutedEventArgs object within the event handle
- E. Call the ChangeView() method of the ScrollViewer.
- F. Add an event handler to the PointerRoutedAway event for the current window.
- G. Evaluate the CurrentPoint.Properties.IsHorizontalMouseWheel property of the PointerEventArgs objec
- H. Call the ChangeView() method of the ScrollViewer.
- I. Add an event handler to the PointerWheelChanged event for the current window.

**Answer:** CD

**Explanation:** The PointerRoutedAway event occurs on the process receiving input when the pointer input is routed to another process.

### NEW QUESTION 25

DRAG DROP

You are developing a Universal Windows Platform (UWP) app.

Users can drag and drop images on the screen to share them with their friends.

You need to implement drag and drop for the app. Users must be able to drop images onto a blue rectangle that the app displays.

How should you complete the relevant markup? To answer, drag the appropriate markup segments to the correct targets. Each markup segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

#### Markup segments

AllowDrop  
 DragOver  
 Grid\_DragOver  
 Drop

#### Answer area

```
<Grid
  = "True"
  = "
  ="Grid_Drop" Background="LightBlue" Margin ="10,10,10,353"
>
...
<TextBlock>Drop anywhere in the blue area </TextBlock>
</Grid>
```

**Answer:**

**Explanation:** Box 1: AllowDrop

Box 2: DragOver

Box 3: Grid\_DragOver

Box 4: Drop

Use the AllowDrop and CanDrag properties to designate the areas of your app valid for dragging and dropping.

The following markup shows how to set a specific area of the app as valid for dropping by using the AllowDrop in XAML. If a user tries to drop somewhere else, the system won't let them. If you want users to be able to drop items anywhere on your app, set the entire background as a drop target.

```
<Grid AllowDrop="True" DragOver="Grid_DragOver" Drop="Grid_Drop" Background="LightBlue" Margin="10,10,10,353">
```

```
<TextBlock>Drop anywhere in the blue area</TextBlock>
```

```
</Grid>
```

#### NEW QUESTION 30

You have to connect your app to an online identity provider that uses OAuth authentication protocol.

The app must securely use the WebAuthenticationBroker object for authentication. You need to ensure that the app registers with the provider.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Construct a HTTP request URI.
- B. Call the GetCurrentApplicationCallbackUri method.
- C. Call the AuthenticateAsync method.
- D. Construct a HTTPS request URI.

**Answer:** CD

**Explanation:** The current application callback URI is used as an implicit value of the callbackUri parameter of the AuthenticateAsync method. However, applications need the URI value to add it to the request URI as required by the online provider.

The requestUri parameter must be a HTTPS address: an exception will be thrown if an HTTP address is used, even for local testing scenarios.

#### NEW QUESTION 31

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You are developing a Universal Windows Platform (UWP) app. Your app stores files on a user's device.

You need to be able to replace the existing files with new files generated by the user.

Solution You run the StorageFile.OpenSequentialReadAsync method to replace the existing file.

Does this meet the goal?

- A. yes
- B. No

**Answer:** B

**Explanation:** The OpenSequentialReadAsync() method opens a sequential-access stream over the current file for reading file contents.

#### NEW QUESTION 35

HOTSPOT

You are developing a Universal Windows Platform (UWP) app by using XAML and C#. A team member has written a XAML page that includes a button with an event handler method named ButtonSendNotification\_Click() registered to the Click event.

You are reviewing the following code segment written by the team member (line numbers are added for reference only):

```

01 public sealed partial class MainPage : Page
02 {
03     public MainPage()
04     {
05         InitializeComponent();
06         TileUpdateManager.CreateTileUpdaterForApplication().EnableNo-
tificationQueue( true);
07     }
08     private void ButtonSendNotification_Click( object sender, RoutedEventArgs e)
09     {
10         SendTileNotification();
11     }
12     private static string GetNewsTitle()
13     {
14         ...
15     }
16     private void SendTileNotification()
17     {
18         TileNotification tileNotification = GenerateTileNotification();
19         tileNotification.Tag = "newsItem" + GetNewsTitle();
20         TileUpdateManager .CreateTileUpdaterForApplication().Update(tileNotifica-
tion);
21     }
22     private TileNotification GenerateTileNotification()
23     {
24         string xml = @"
25             <tile version='3'>
26                 <visual branding='name'>
27                     <binding template='TileMedium'>
28                         <text hint-wrap='true'>This just in...</text>
29                         <text hint-wrap='true' hint-style='captionSubtle' />
30                     </binding>
31                     <binding template='TileWide'>
32                         <text hint-wrap='true'>This just in...</text>
33                         <text hint-wrap='true' hint-style='captionSubtle' />
34                     </binding>
35                     <binding template='TileLarge'>
36                         <text hint-wrap='true'>This just in...</text>
37                         <text hint-wrap='true' hint-style='captionSubtle' />
38                     </binding>
39                 </visual>
40             </tile>";
41         XmlDocument doc = new XmlDocument ();
42         doc.LoadXml(xml);
43         string nowTimeString = DateTime.Now.ToString();
44         foreach (XmlElement textEl in doc.SelectNodes("//text").OfType<XmlEle-
ment>())
45             if (textEl.InnerText.Length == 0)
46                 textEl.InnerText = "(" + nowTimeString + ") Top News: " + GetNew-
sTitle();
47         TileNotification tileNotification = new TileNotification (doc);
48         return tileNotification;
49     }
50 }

```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
 NOTE: Each selection is worth one point.

## Answer Area

Statement	Yes	No
The code segment will generate a tile notification for all platform tile sizes.	<input type="radio"/>	<input type="radio"/>
The code segment will generate a tile notification successfully when a user clicks the button on the XAML page.	<input type="radio"/>	<input type="radio"/>
The app will display only one tile notification, regardless of the number of button clicks.	<input type="radio"/>	<input type="radio"/>
An exception will be thrown at Line 42 of the code segment.	<input type="radio"/>	<input type="radio"/>

Answer:



#### Explanation: Box 1: No

There are four tile sizes: small, medium, wide, large. Only three are reference in the TileNotification definition.

Box 2: Yes

Box 3: No

Box 4: No

Line 42 is doc.LoadXml(xml);

The LoadXml method loads an XML document from a string. Returns TRUE on success or FALSE on failure.

If called statically, returns a DOMDocument or FALSE on failure.

If an empty string is passed as the source, a warning will be generated. This warning is not generated by libxml and cannot be handled using libxml's error handling functions.

#### Topic 3, Case Study 2

##### Background

You are developing a Universal Windows Platform (UWP) app for LitWare, Inc. that will assist video artists. The app allows artists to create videos, share videos through other

mobile apps, and upload the videos through LitWare, Inc's web services. What helps set LitWare Inc's app apart from competitors is their focus on speed and performance. Business requirements

Support many devices

. Users may have phones, tablets, or laptops. The app must support all devices with a fluid layout that grows off-screen and adapts to each device.

Record video

? Users must be able to record videos and view them in their videos library.

? The app must display information about the recorded video.

? Users must be able to edit the upload queue in the app.

Branding

The app must allow deferral and scheduling of video uploads. Users must be able to view the status of video uploads.

Any videos created with this app or shared with this app must be uploaded without user interaction.

Download video

The app must have the option to automatically download videos. Users must be able to initiate downloading of videos.

Share video

The app must allow be allowed to receive videos from other apps.

? Technical requirements

? Application structure Technical requirements Support multiple devices

The app must support the following:

? Use horizontal layout for larger screens.

? Use vertical layout for smaller screens.

? Use one layout control per view.

The app must be compatible with current and future XBOX app that use C++.

Uploading and downloading

The app must use a background operations to upload and download videos.

Code reuse

? The app must use a common pool of XAML resources and custom controls. All custom controls must use a consistent theme throughout the app.

? You must create code that can be reused in C++, C#, JavaScript, whenever possible.

? The app must call the background service to avoid duplication of code.

Security

? End users must be authenticated using OAuth.

? Web services must be authenticated.

? Users must have the option to use single sign-on.

Recording

The app must use the microphone and webcam to support audio and video recording. In addition, the app must support the use of the back camera buttons, if present. Integration:

Other apps must be able to share videos with this app through a Universal Windows Platform (UWP)

Architecture and coding style

? The app must follow the Model-View-ViewModel (MVVM) pattern

? The app's user interface (UI) must be optimized for performance.

? The app must use compile time coding techniques over runtime.

Package appxmanifest

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

```
PM01 <Package>
PM02     <Applications>
PM03         <Application id="App" Executable=" $targetnametoken$.exe" EntryPoint="Litware.-
MultiMediaApp.App">
PM04             <Extensions>
PM05                 <Extension Category = "windows.appService"
                    EntryPoint="Litware.MultiMediaApp.VideoUploadService.VideoUpload">
PM06
PM07             </Extension>
PM08             <Extensions>
PM09                 <uap:VisualElements DisplayName="Litware.MultiMediaApp"
Square150x150Logo=" Assets\Square150x150Logo.png"
Square44x44Logo = "Assets\Square44x44Logo.png" Description="
Litware.MultiMediaApp"
                    BackgroundColor = "transparent" >
PM10                 <uap:DefaultTile Wide310x150Logo="Assets\Wide310x150Logo.png">
PM11                 </uap:DefaultTile>
PM12                 <uap:SplashScreen Image = "Assets\SplashScreen.png" />
PM13                 </uap:VisualElements>
PM14             </Application>
PM15         </Applications>
PM16 </Package>
```

#### Background Task

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

```
BA01 private void RegisterBackgroundTask(object sender, RoutedEventArgs e)
BA02 {
BA03     if (! this.IsAlreadyRegistered(this .videoDownloadBackgroundTaskName))
BA04     {
BA05         var backgroundTaskRegistration = this.RegisterBackgroundTask(
BA06             this .videoDownloadBackgroundTaskName,
BA07             this .videoDownloadBackgroundTaskEntryPoint,
BA08
BA09             null);
BA10         backgroundTaskRegistration.Progress += OnProgress;
BA11         backgroundTaskRegistration.Completed += OnCompleted;
BA12     }
BA13 }
```

#### NEW QUESTION 37

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You must create a project for shared code.

Solution: You implement the shared code in a Shared Project. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:** The .NET Framework Portable Class Library project type in Visual Studio helps you build cross-platform apps and libraries for Microsoft platforms quickly and easily.

Portable class libraries can help you reduce the time and costs of developing and testing code. Use this project type to write and build portable .NET Framework assemblies, and then reference those assemblies from apps that target multiple platforms such as Windows and Windows Phone.

Even after you create a Portable Class Library project in Visual Studio and start developing it, you can change the target platforms. Visual Studio will compile your library with the new assemblies, which helps you identify the changes you need to make in your code.

From scenario:

The app must be compatible with current and future XBOX apps that use C++.

#### NEW QUESTION 38

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You must create a project for shared code.

Solution: You implement the shared code in a Class Library (Universal Windows). Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:** The .NET Framework Portable Class Library project type in Visual Studio helps you build cross-platform apps and libraries for Microsoft platforms quickly and easily.

Portable class libraries can help you reduce the time and costs of developing and testing code. Use this project type to write and build portable .NET Framework assemblies, and then reference those assemblies from apps that target multiple platforms such as Windows and Windows Phone.

Even after you create a Portable Class Library project in Visual Studio and start developing it, you can change the target platforms. Visual Studio will compile your library with the new assemblies, which helps you identify the changes you need to make in your code.

From scenario:

The app must be compatible with current and future XBOX apps that use C++.

#### NEW QUESTION 41

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You must create a project for shared code.

Solution: You implement the shared code in a .NET class library. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:** The .NET Framework Portable Class Library, not a .NET class library, project type in Visual Studio helps you build cross-platform apps and libraries for Microsoft platforms quickly and easily.

Portable class libraries can help you reduce the time and costs of developing and testing code. Use this project type to write and build portable .NET Framework assemblies, and then reference those assemblies from apps that target multiple platforms such as Windows and Windows Phone.

Even after you create a Portable Class Library project in Visual Studio and start developing it, you can change the target platforms. Visual Studio will compile your library with the new assemblies, which helps you identify the changes you need to make in your code.

From scenario:

The app must be compatible with current and future XBOX apps that use C++.

#### NEW QUESTION 45

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals. You must create a project for shared code.  
Solution: You implement the shared code in a Windows Runtime component. Does this meet the goal?

- A. Yes  
B. No

**Answer: A**

**Explanation:**

#### NEW QUESTION 49

HOTSPOT

You need to implement the following code segment according to the requirements. How should you complete the code? To answer, select the appropriate code segment from each list in the answer area.

#### Answer Area

if ( ApiInformation . IsTypePresent ( Windows.Phone.UI.Input.HardwareButtons ) )

{

    ...

}

**Answer:**

**Explanation:** From scenario:

Box 1: IsTypePresent

Box 2: Windows.Phone.UI.Input.HardwareButtons

Here is an example. We'll assume our app wants to take advantage of a Mobile device's dedicated camera button. If I directly referenced the HardwareButtons object for the CameraPressed event while on a desktop without checking that HardwareButtons is present, my app would crash.

// Note: Cache the value instead of querying it more than once. bool isHardwareButtonsAPIPresent = Windows.Foundation.Metadata.ApiInformation.IsTypePresent("Windows.Phone.UI.Input.HardwareButtons");

Topic 4, Fabrikam incBackground:

Fabrikam is a commercial bank. The primary customers are individuals and employers with up to 10,000 employees. Fabrikam provides Internet banking services to customers.

You are developing a Universal Windows Platform (UWP) app for Fabrikam that extends the Internet banking to a UWP app.

Business Requirements: Core functionality

Users must be able to access accounts, view balances, view recent transactions, and deposit checks by using the UWP app.

Usability

The app must use industry proven design patterns across the app. All navigational elements must be visible at all times.

Security

The app must provide secure transactions to protect customer privacy. Technical Requirements

Data

The app must use a file based database. You must use a code first entity framework approach.

User interface

? You must use a Model-View-ViewModel (MVVM) pattern.

? Users must be able to access all content through the top-level navigation after they sign in

? The app must allow the user to upload up to 50 images (front and back) of checks to deposit.

? During the upload process, the app must be responsive to any other user actions.

? The app must only upload images when no other pending inputs are in the queue. You must implement the following pages:

Page	Description
Sign-In	This page displays when the app is launched. It prompts users to enter credentials.
Transactions	This page allows users to view transactions for the last 30 days.
Balances	This page allows users to view current balance amount for all accounts.
Deposit	This page allows users to deposit checks by uploading images of checks.
Statements	This page lists the available bank statements for all accounts.

Network and web service

The app must meet the following requirements related to networking and web services: Connect to a web service over a secure HTTP connection to upload images.

? Connect to Fabrikam's core web service to retrieve account information.

? Use networking technology already available in the .Net Framework.

? Consume the JSON that the Fabrikam core web service provides.

User data and alerts

The app must meet the following requirements related to user data and alerts:

Download new monthly bank statements when possible. The download process must not affect the performance of the app.

Network and web service

The app must meet the following requirements related to networking and web services:

? Connect to a web service over a secure HTTP connection to upload images.

? Connect to Fabrikame's core web service to retrieve account information.

? Use networking technology already available in the .Net Framework.



? Consume the JSON that the Fabrikam core web service provides.

User data and alerts

The app must meet the following requirements related to user data and alerts:

? Download new monthly bank statements when possible. The download process must not affect the performance of the app.

? Report to the user when the statements are downloaded to the device.

? Write a log entry when statements downloads are not successful.

? Periodically check for user activity and automatically log the user out when there is no activity for more than 15 minutes.

Security:

The app must meet the following requirements related to security.

Use a multi-factor authentication (MFA) by using email and a verification code to identify the user.

Security store credentials and retrieve credentials.

Automatically sign in the user irrespective of the device that is used to sign in to the app.

Store the resource name within the app itself.

Connect to an authentication app by using the URI schema fabrikam-secutity://oauth/.

AccountContext.cs

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

```
AC01 using Microsoft.EntityFrameworkCore;
AC02 using FabrikamApp.Model;
AC03 using System.Data.Common;
AC04 using System.Security;
AC05 namespace Fabrikam.Contexts
AC06 {
AC07
AC08     protected override void OnConfiguring(DbContextOptionsBuilder opt-
Builder
AC09     {
AC10         ...
AC11     }
AC12 }
```

ImageMeanger.cs

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

```
IM01 public static class ImageManager
IM02 {
IM03     private static CoreDispatcher _dispatcher;
IM04     public static void InitImageManager()
IM05     {
IM06         ...
IM07     }
IM08     public static void Upload(Action < List < byte []>> image)
IM09     {
IM10         ExecuteUpload(image).Wait();
IM11     }
IM12     private static Task ExecuteUpload(Action < List < byte []>> image)
IM13     {
IM14
IM15     }
IM16     private static void UploadImage(Action < List < byte []>> image)
IM17     {
IM18         ...
IM19     }
IM20 }
```

ClientProxy.cs

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

```
CP01 using System;
CP02 using System.IO;
CP03 using System.Net.Http;
CP04 using System.Runtime.Serialization.Json;
CP05 using System.Text;
CP06 using System.Threading.Tasks;
CP07 using FabrikamBanking.Model;
CP08
CP09 namespace FabrikamBanking.Services
CP10 {
CP11     public class ClientProxy
CP12     {
CP13         public async Task<Decimal> GetBalance(AccountRequest accountReq
CP14         {
CP15
CP16             var ms = new MemoryStream(Encoding.UTF8.GetBytes(result));
CP17             var data = (decimal)serializer.ReadObject(ms);
CP18
CP19             return data;
CP20         }
CP21     }
CP22 }
```

BkgTaskMgr.cs

```

BT01 public sealed class BackgroundTaskManager
BT02 {
BT03     public static BackgroundTaskRegistration RegisterBackgroundTask(string taskEntry-
Point, string taskName, IBackgroundTrigger trigger, IBackgroundCondition condition)
BT04     {
BT05         var builder = new BackgroundTaskBuilder();
BT06         builder.Name = taskName;
BT07         builder.TaskEntryPoint = taskEntryPoint;
BT08         builder.SetTrigger(trigger);
BT09         BackgroundTaskRegistration task = builder.Register();
BT10         task.Completed += new BackgroundTaskCompletedEventHandler(OnCompleted);
BT11         return task;
BT12     }
BT13 }
BT14 private static void OnCompleted(BackgroundTaskRegistration sender, BackgroundTask-
CompletedEventArgs args)
BT15 {
BT16     ...
BT17 }
BT18 public static IBackgroundTrigger GetTrigger()
BT19 {
BT20 }
BT21     return trigger;
BT22 }
BT12 }

```

#### CredentialManagers.cs

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

```

CM01 using Windows.Security.Credentials;
CM02
CM03 namespace FabrikamBanking
CM04 {
CM05     class CredentialManager
CM06     {
CM07         private PasswordCredential GetCredentialFromLocker()
CM08         {
CM09             PasswordVault vault = new PasswordVault();
CM10             var credential = vault.RetrieveAll();
CM11             ...
CM12         }
CM13     }
CM14 }

```

#### MainPage.cs

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

```

FB01 using System;
FB02 using Windows.UI.Xaml;
FB03 using Windows.UI.Xaml.Controls;
FB04 using System.Security;
FB05 namespace FabrikamBanking
FB06 {
FB07     public sealed partial class MainPage : Page
FB08     {
FB09         public MainPage()
FB10         {
FB11             this.InitializeComponent();
FB12         }
FB13         private async void LaunchAppURI(object sender,
RoutedEventArgs e)
FB14         {
FB15             ...
FB16         }
FB17     }
FB18 }

```

#### NEW QUESTION 50

##### DRAG DROP

You need to add code at line IM14 to meet the user interface requirement.

How should you complete the relevant code segment? To answer, drag the appropriate code segments to the correct location or locations. Each code segments may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Code segments

BeginInvoke

CoreProcessEventsOption

CoreDispatcherPriority

RunAsync

Normal

High

Idle

•••••

Answer Area

await \_dispatcher.

Code segment

(

Code segment

.

Code segment

, () => UploadImage(image);

Answer:

**Explanation:** Box 1: RunAsync  
Box 2: CoreDispatcherPriority  
Box 3: Normal  
If you are on a worker thread and want to schedule work on the UI thread, use CoreDispatcher::RunAsync. Always set the priority to CoreDispatcherPriority::Normal or CoreDispatcherPriority::Low.  
Callbacks scheduled with CoreDispatcherPriority::Low priority are called when there are no pending input events. Use the CoreDispatcherPriority::Low priority to make your app UI more responsive.

**NEW QUESTION 55**  
HOTSPOT  
You must evaluate the code in CredentialManager.cs.  
For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
The code retrieves credentials for all the users that have run the app.	<input type="radio"/>	<input type="radio"/>
The code uses Credential Locker to retrieve user credentials.	<input type="radio"/>	<input type="radio"/>
The code displays the user interface to collect user credentials.	<input type="radio"/>	<input type="radio"/>

Answer:

**Explanation:** Box 1: No  
Box 2: Yes  
Box 3: No  
From scenario: the following code was used PasswordVault vault = new PasswordVault(); var credential = vault.RetrieveAll();  
You have several options for retrieving user credentials from the Credential Locker after you have a reference to the PasswordVault object.  
You can, as in this question, retrieve all the credentials the user has supplied for your app in the locker with the PasswordVault.RetrieveAll method.

**NEW QUESTION 58**  
DRAG DROP



You need to download the bank statements and alert the user when the download is complete.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

Declare a deferral as complete before the file download starts.

Override the Run method.

Add a new class to subclass from IBackgroundTaskRegistration class.

Add a new class to implement the IBackgroundTask interface.

Provide implementation for the Run method.

Declare a deferral as complete inside the Run method.

### Answer Area



**Answer:**

**Explanation:** From Scenario:

The app must meet the following requirements related to user data and alerts:

You can run code in the background by writing classes that implement the IBackgroundTask interface.

If you run any asynchronous code in your background task, then your background task needs to use a deferral. If you don't use a deferral, then the background task process can terminate unexpectedly if the Run method completes before your asynchronous method call has completed.

Request the deferral in the Run method before calling the asynchronous method. Save the deferral to a global variable so it can be accessed from the asynchronous method. Declare the deferral complete after the asynchronous code completes.

### NEW QUESTION 59

You need to configure authentication for the app.

Which two technologies should you use? Each correct answer presents part of the solution.

- A. Windows Hello
- B. Windows Kerberos
- C. Azure Active Directory
- D. Microsoft Passport

**Answer:** AD

**Explanation:** Microsoft Hello

Microsoft Hello provides simple multi-factor authentication using facial recognition (or iris, or fingerprints) that is used to access the Microsoft Passport private key stored in the secure TPM chip. For the first time, Microsoft has included the biometric software (middleware) in Windows 10 to support biometrics for authentication. In previous versions of Windows, the OEM (HP, Dell, Lenovo, etc) needed to add its own biometric middleware to support biometric authentication.

From scenario: The app must meet the following requirements related to security: Note: Microsoft Passport

Microsoft has resurrected the Passport moniker for a new PKI credential system that

requires multi-factor authentication. Most interesting about Microsoft Passport is that it fully supports the Fast Identity Online (FIDO) Alliance standards which means it will work with many web/cloud services without modification. The plan is that users of cloud services supporting FIDO is that there will no longer be passwords associated with the user's account.

Microsoft Passport involves a user logging onto the Windows 10 computer with multi-factor (PIN, face, iris, fingerprint, etc) and either creating a new account or associating an existing account with an Identity Provider (IDP). Windows generates a public/private key pair with the private key stored securely outside of the Windows 10 OS. The public key is associated with the account so that a challenge can be sent that can only correctly respond to the IDP. Another key point to the Microsoft Passport credential system is that the user needs to enroll every device used to access the service (IDP).

### NEW QUESTION 62

DRAG DROP

You need to insert code at line BT19 to configure the trigger to meet the technical requirements for User Data and Alerts.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct location or locations. Each code segments may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

## Code segments

false

TimeTrigger

SystemTrigger

UserPresent

## Answer area

```
var trigger = new Code segment (15, Code segment );
```

### Answer:

**Explanation:** Box 1: TimeTrigger

Box 2: false

TimeTrigger(UInt32, Boolean) initializes a new instance of a time event trigger. Syntax: public TimeTrigger(UInt32 freshnessTime, Boolean oneShot)

Parameters freshnessTime UInt32

Specifies the number of minutes to wait before scheduling the background task. The system schedules the task within 15 minutes after freshnessTime elapses. If the OneShot property is false, freshnessTime specifies the interval between recurring tasks.

oneShot Boolean

True if the time event trigger will be used once; false if it will be used each time freshnessTime elapses

## NEW QUESTION 64

### HOTSPOT

You need to insert code at line CP15 to retrieve the account balance for a user.

How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

## Answer Area

```
var objRequest = new ▼ ();
HttpClient
HttpRequestMessage
HttpWebResponse

var response = await objRequest.▼
GetAsync
PutAsync
SendAsync

( "http://core.fabrikam.com/accounts/balance?number=" +
accountReq.AccountInfo.Number + "&token=" + accountReq.Token);
var result = await response.Content.ReadAsStringAsync ();
var serializer = new ▼ (typeof (decimal));
DataContractJsonSerializer
HttpWebResponse
XmlSerializer
```

### Answer:

**Explanation:** From scenario:

Users must be able to access accounts, view balances, view recent transactions, and deposit checks by using the UWP app.

Box 1: HttpClient

Box 2: GetAsync

Box 3: DataContractJsonSerializer

From scenario: Consume the JSON that the Fabrikam core web service provides.

## NEW QUESTION 67

### DRAG DROP

You need to meet the storage requirements?

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

## Actions

- Install the SQLite package and define database entities.
- Launch the NuGet Package Manager console.
- Use Entity Framework migrations to create the database.
- Run the **Enable-Migrations** Windows PowerShell cmdlet.
- Install the MySQL package and define database entities.
- Use MySQL to create the database.
- Launch the Visual Studio 2015 command prompt.

## Answer Area



### Answer:

**Explanation:** From scenario: The app must use a file based database. You must use a code first entity framework approach.

Install Entity Framework

To use EF Core, install the package for the database provider(s) you want to target. This walkthrough uses SQLite. For a list of available providers see Database Providers. Tools -> NuGet Package Manager -> Package Manager Console

Run Install-Package Microsoft.EntityFrameworkCore.Sqlite

Create your database

Now that you have a model, you can use migrations to create a database for you. Tools -> NuGet Package Manager -> Package Manager Console

Run Add-Migration MyFirstMigration to scaffold a migration to create the initial set of tables for your model.

### NEW QUESTION 71

#### DRAG DROP

You need to launch the authentication app.

How should you complete the relevant code? To answer, drag the appropriate code segments to the correct location or locations. Each code segments may be used once,

more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

## Code segments

- UriKind.Absolute
- UriKind.Relative
- Launcher.LaunchUriAsync
- Launcher.LaunchFolderAsync
- Launcher.FindUriSchemeHandlersAsync
- Uri
- UriBuilder

....

## Answer Area

```
var appURI = new Code segment ("fabrikam-security://oauth/ ", `
    Code segment
);
var response = await Code segment (appURI);
```

### Answer:

**Explanation:** Box 1: Uri

Box 2: UriKind.Relative

Box 3: Launcher.LaunchUriAsync

The Uri Constructor (Uri,Uri) initializes a new instance of the Uri class based on the combination of a specified base Uri instance and a relative Uri instance.

Syntax: public Uri( Uri baseUri,

Uri relativeUri

)

Example to launch to URI:

var success = await Windows.System.Launcher.LaunchUriAsync(uri);



NEW QUESTION 74

.....

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