Exam Number/Code:70-485

Exam Name:Advanced Windows
Store App Development using C#

Version: Demo

Topic 1, Scenario Margie's Travel

Background

You are developing a Windows Store media sharing app for the sales and marketing team at Margie's Travel. The app will allow team members to download documents and media about current and proposed products and services from the company's cloud-based media manager service. Team members will be able to add new content to the cloud service and to print and share content.

Business Requirements

Behavior:

Team members must be able to download product information data sheets, marketing materials, and product demonstration video clips from the company's server.

Team members must be able to select and upload multiple files that contain new and modified content as a batch.

Team members must be able to stream video clips to other devices in the vicinity of the team member's device. The app will not support the streaming of photographs.

The app must allow team members to pause, restart, or cancel uploads and downloads of files. The app must report both the progress and completion status of these operations. It must also return results about upload and download operations.

User Interface:

The app must include a photo viewer. When photos are added or deleted in the photo viewer window, they must animate in and out of the field of view. Remaining photos must move to fill the empty space created when photos are deleted. The photo viewer must support semantic zoom.

The app must display information on the lock screen of the device. The information must include text-based alerts and a value indicating the number of pending file downloads.

Technical Requirements

Behavior:

The company has an existing component named VideoProcessor. This component compresses video clips and performs other processing before the video clips are uploaded to the media manager service. The component was written with managed code. The VideoProcessor component will also be used by Windows Store apps developed in HTML5 and JavaScript. The apps must be able to call the overload of the ProcessVideo() method that accepts a string and a Boolean value as parameters.

When a team member selects a video clip to download, the app must download the file as a background task. After a download has started, the app should maintain the network connection to the server even when the app is suspended.

User Interface:

The app must include a custom photo viewer control. The control will be updated frequently and may be deployed separately from the rest of the app. The photo viewer control must support templates and styles.

User Interface:

The app must include a custom photo viewer control. The control will be updated frequently and may be deployed separately from the rest of the app. The photo viewer control must support templates and styles. The app must use a Grid control as the root layout control. The photo viewer must be placed in the second row of the grid. The appearance of the app must change when the app is in snapped mode. The first row of the root layout grid must not change height. The second row must fill all available space.

Available video clips must be displayed in an extended ListView control class named Downloaded VideoList.

The template for the DownloadedVideoList is already defined. New video clips should be added to DownloadedVideoList when the DownloadVideoQ method completes.

New video clip items in the DownloadedVideoList should color change periodically to alert the team member.

Application Structure

Relevant portions of the app files are as follows. (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.)

App.xaml.cs

```
AP01 cts= newCancellationTokenSource();
APO2 private List<DownloadOperation>MyPendingDownloads;
APO3 privateasyncTaskHandleMyPendingDownloads(DownloadOperationdownload,
boolstart)
AP04 {
AP05
      MyPendingDownloads.Add(download);
     Progress<DownloadOperation> progressCallback = new
AP06
Progress<DownloadOperation>(DownloadProgress);
APO7 if(start)
AP08
        awaitdownload.StartAsync().AsTask(cts.Token, progressCallback);
APO9
AP10
AP11 else
AP12 {
AP13
         awaitdownload.AttachAsync().AsTask(cts.Token, progressCallback);
AP14
AP15 }
AP16 privateasyncvoidUploadContent()
AP17 {
      FileOpenPickerpicker = newFileOpenPicker();
AP18
AP19
AP20
     List<BackgroundTransferContentPart> uploadGrp = new
List<BackgroundTransferContentPart>();
     for (intfileNum = 0; fileNum < files.Count; fileNum ++)
AP22
AP23
         BackgroundTransferContentPartuploadItem= new
BackgroundTransferContentPart("File"+ fileNum,
         files[fileNum].Name);
AP24
        uploadItem.SetFile(files[fileNum]);
AP25
        uploadGrp.Add(uploadItem);
AP26
AP27
      BackgroundUploaderuploader = newBackgroundUploader();
AP28
AP29
     awaitHandleUploadAsync(upload, true);
AP30 }
```

VideoProcessor.cs

```
IP01 publicclassVideoProcessor
IP02 {
IP03
IP04 publicVideoProcessor(intvideoID)
IP05 {
IP06
IP07 } ...
IP08
IP09 publicVideoProcessor(stringvideoName)
IP10 {
IP11
IP12 }
IP13
IP14
IP15    publicvoidProcessVideo(stringvideoName, stringvideoType)
IP16 {
IP17
        . . .
IP18 }
IP19
IP20 publicvoidProcessVideo(stringvideoName, boolcompressFile)
IP21 {
IP22
       . . .
IP23 }
IP24 }
```

MainPage.xaml

MainPage.xaml.cs

```
MCO1 private PlayToManagerptMgr = PlayToManager.GetForCurrentView();
MC03 protectedoverridevoidOnNavigatedTo(NavigationEventArgse)
MC04 {
MC05
MC06
MC07 }
MC08 privatevoidSourceRequestHandler (PlayToManagersender,
      PlayToSourceRequestedEventArgse)
MC09 {
MC10
MC11 e.SourceRequest.SetSource (mediaElement.PlayToSource);
MC13 publicvoidStartNewVideoAnimation()
MC14 {
MC15
     NewVideoStoryboard.Begin();
MC16 }
MC17 publicvoidDownloadVideo(stringvideoName)
MC18 {
MC19
MC20 videoList.Items.Add(videoName);
MC21 }
```

QUESTION:1

- (Topic 1)

You need to meet the business requirements about downloading and uploading.

How should you configure the app? (To answer, select the appropriate options from each drop-down list in the answer area.)

Configure the Application UI s	settings in Package.appxmanifest	
Lock screen notifications:		-
	Tile	_
	Badge and Tile Text	
	Wide Logo Only	
	F	
		-
	Tile Image Only	
	Badge Logo and Tile Image	
	Badge Logo and Wide Logo	
Configure the Declarations se	ttings in Package.appxmanifest	
The second second second second	10 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Add a Background Task dec	laration and configure support for the	
following task types:		-
	Photo file stream	
	Control channel	
	User actions	
	Device availability	
	Playback status	38
Configure the Application UI	settings in Package.appxmanifest	
Lock screen notifications:		-
	Tile	
	Badge and Tile Text	
	Wide Logo Only	
Logo files:		-
	Tile Image Only	
	Badge Logo and Tile Image	
	Badge Logo and Wide Logo	
	badge rege and who rege	
Configure the Declarations s	ettings in Package.appxmanifest	
Add a Background Task de	claration and configure support for the	
following task types:		•
	Photo file stream	
	Control channel	
	User actions	
	Device availability	
	Playback status	

```
- (Topic 1)
```

Answer: A

You need to implement the business requirement to display video clips.

Which code segment should you use in the MainPage.xaml file?

```
A. <DownloadedVideoList x:Name="videoList">
      <DownloadedVideoList.Resources>
        <Storyboard x:Name="NewVideoStoryboard">
          <ColorAnimation Storyboard.TargetName="NewVideoBrush"
           Storyboard.TargetProperty="Color" From="Red" To="Green"
           Duration="0:0:8" RepeatBehavior="Forever"/>
        </Storyboard>
      </DownloadedVideoList.Resources>
      <DownloadedVideoList.Background>
        <SolidColorBrush x:Name="NewVideoBrush" Color="Red"/>
      </DownloadedVideoList.Background>
    </DownloadedVideoList>
   <DownloadedVideoList x:Name="videoList">
      <DownloadedVideoList.Resources>
        <Storyboard x:Name="NewVideoStoryboard">
          <ColorAnimation Storyboard.TargetName="NewVideoBrush"
           Storyboard.TargetProperty="Color" From="Red" To="Green"
           AutoReverse="true"/>
        </Storyboard>
      </DownloadedVideoList.Resources>
      <DownloadedVideoList.Background>
        <SolidColorBrush x:Name="NewVideoBrush" Color="Red"/>
      </DownloadedVideoList.Background>
    </DownloadedVideoList>
C. <DownloadedVideoList x:Name="videoList">
      <DownloadedVideoList.Transitions>
        <TransitionCollection>
          <EntranceThemeTransition/>
        </TransitionCollection>
      </DownloadedVideoList.Transitions>
    </DownloadedVideoList>
D. <DownloadedVideoList x:Name="videoList">
      <DownloadedVideoList.Transitions>
        <TransitionCollection>
          <AddDeleteThemeTransition/>
        </TransitionCollection>
      </DownloadedVideoList.Transitions>
    </DownloadedVideoList>
A. Option A
B. Option B
C. Option C
D. Option D
```

```
- (Topic 1)
```

You need to implement downloading of media files and other content.

Which code segment should you add to App.xaml.cs?

```
A. private async Task GetPendingDownloadsList()
      IReadOnlyList<DownloadOperation> downloads = await
      BackgroundDownloader.GetCurrentDownloadsAsync();
      if (downloads.Count > 0)
       List<Task> myTasks = new List<Task>();
        for (int i=0; i < downloads.count; i++)
          await HandleMyPendingDownloads(downloads[i], true);
        await Task. When All (my Tasks);
   3
B. private async Task GetPendingDownloadsList()
      IReadOnlyList<DownloadOperation> downloads = await
       BackgroundDownloader.GetCurrentDownloadsAsync();
      if (downloads.Count > 0)
        List<Task> myTasks = new List<Task>();
        foreach (DownloadOperation download in downloads)
          myTasks.Add(HandleDownloadAsync(download, false));
        await Task.WhenAll(myTasks);
      1
C. private GetPendingDownloadsList()
      IReadOnlyList<DownloadOperation> downloads = await
       BackgroundDownloader.GetCurrentDownloadsAsync();
      if (downloads.Count > 0)
        List<Task> myTasks = new List<Task>();
        for (int i=0; i < downloads.count; i++)
          await HandleMyPendingDownloads(downloads[i], true);
        await Task.WhenAll(myTasks);
   private Task GetPendingDownloadsList()
     IReadOnlyList<DownloadOperation> downloads =
      BackgroundDownloader.CreateDownloadAsync();
      if (downloads.Count > 0)
       List<Task> myTasks = new List<Task>();
       foreach (DownloadOperation download in downloads)
         myTasks.Add(HandleDownloadAsync(download, false));
        Task.WhenAll(myTasks);
    3
```

A. Option A

- B. Option BC. Option C
- D. Option D

Answer: B

QUESTION:4

- (Topic 1)

You need to ensure that the app uploads media and files to the media manager service.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

.A. Insert the following line of code at line AP28.

```
IReadOnlyList<UploadOperation> upload =
await BackgroundUploader.GetCurrentUploadsAsync();
```

B. Insert the following line of code at line AP28.

```
UploadOperation upload = await uploader.CreateUpload(uri, uploadGrp);
```

C. Insert the following line of code at line AP28.

```
UploadOperation upload = await uploader.CreateUploadAsync(uri, uploadGrp);
```

D. Insert the following line of code at line AP19.

```
IReadOnlyList<StorageFile> files = await picker.PickMultipleFilesAsync
();
```

E. Insert the following line of code at line AP19.

```
IReadOnlyList<StorageFile> files = await picker.PickSingleFilesAsync
();
```

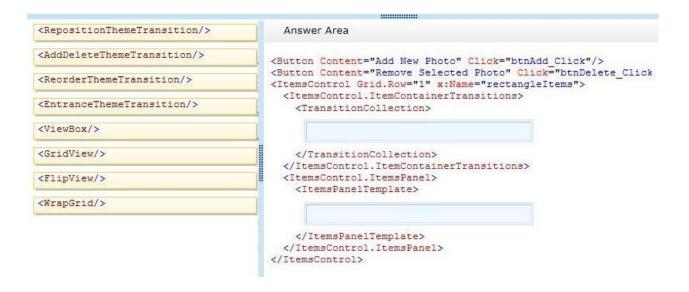
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: C,D

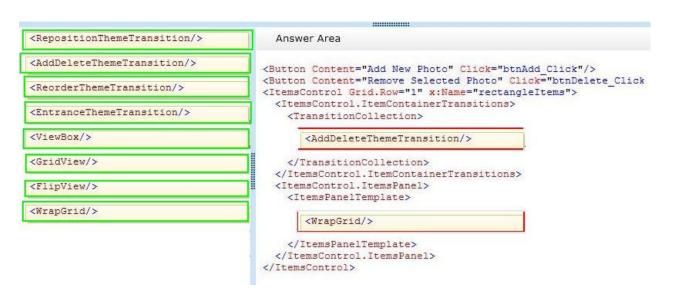
- (Topic 1)

You need to implement the photo viewer page to meet the business requirements.

How should you complete the code segment? (To answer, drag the appropriate [source or sources] to the correct location or locations in the answer area.)



Answer:



QUESTION:6

```
- (Topic 1)
```

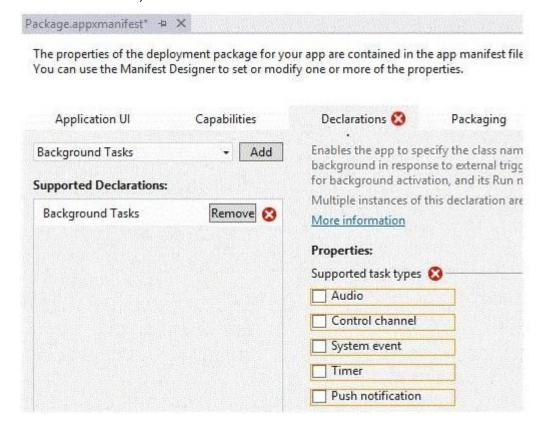
You need to implement a custom control to display thumbnail images of video clips.

Which code segment should you use?

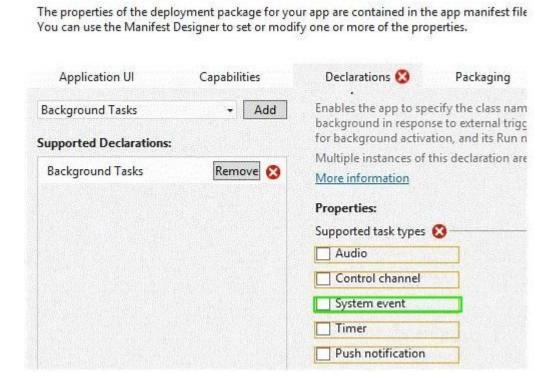
```
A public sealed class DownloadedVideoList: FlipView
      public DownloadedVideoList()
        this.DefaultStyleKey = typeof(ListView);
      1
     }
B. public sealed class DownloadedVideoList: FlipView
      public DownloadedVideoList()
        this.DefaultStyleKey = typeof(DownloadedVideoList);
     1
C. public sealed class DownloadedVideoList: ListView
      public DownloadedVideoList()
        this.DefaultStyleKey = typeof(DownloadedVideoList);
D. public sealed class DownloadedVideoList: ListView
      public DownloadedVideoList()
        this.DefaultStyleKey = typeof(ListView);
    }
A. Option A
B. Option B
C. Option C
D. Option D
Answer: C
QUESTION:7
- (Topic 1)
```

You need to configure the app manifest to support the file download requirements.

Which task type property should you specify? (To answer, select the appropriate property in the answer area.)



Answer:



- (Topic 1)

You need to implement the requirements for the playback of media.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

```
A. Add the following line of code at line MC02.

private void ShowPlayTo()

{
Windows.Media.PlayTo.PlayToManager.ShowPlayToUI(); }

B. Add the following line of code at line MC06.

ptMgr.DefauitSourceSelection = false;

C. Add the following line of code at line MC10.

ptMgr.PlayRequested += SourceRequestHandler;

D. Add the following line of code at line MC05.

ptMgr.SourceRequested += SourceRequestHandler;
```

Answer: B,D

```
- (Topic 1)
```

You need to implement the requirements for the behavior of the main page. Which code segment should you insert at line MP07?

```
A. <VisualStateGroupx:Name="ApplicationViewStates">
       <VisualStatex:Name="Snapped">
         <Storyboard>
           <ObjectAnimationUsingKeyFrames Storyboard.TargetName="LayoutRoot"</pre>
            Storyboard. TargetProperty=" (Grid.RowDefinitions) [1]. Height">
              <DiscreteObjectKeyFrameKeyTime="0"Value="Auto"/>
           </ObjectAnimationUsingKeyFrames>
         </storyboard>
       </VisualState>
     </VisualStateGroup>
 B. <VisualStateGroup x:Name="ApplicationViewStates">
      <VisualState x:Name="Filled">
        <Storyboard>
          <ObjectAnimationUsingKeyFrames Storyboard.TargetProperty="LayoutRoot">
             <DiscreteObjectKeyFrame KeyTime="0" Value="*"/>
          </ObjectAnimationUsingKeyFrames>
        </Storyboard>
       </VisualState>
    </VisualStateGroup>
C. <VisualStateGroupx:Name="ApplicationViewStates">
       <VisualStatex:Name="FullScreenLandscape">
         <Storyboard>
           <ObjectAnimationUsingKeyFrames Storyboard.TargetProperty="LayoutRoot">
             <DiscreteObjectKeyFrameKeyTime="0"Value="Auto"/>
          </ObjectAnimationUsingKeyFrames>
        </storyboard>
       </VisualState>
    </VisualStateGroup>
D. <VisualStateGroup x:Name="ApplicationViewStates">
      <VisualState x:Name="FullScreenPortrait">
        <Storyboard>
          <ObjectAnimationUsingKeyFrames Storyboard.TargetName="LayoutRoot"</pre>
           Storyboard. TargetProperty=" (Grid.RowDefinitions) . Height">
            <DiscreteObjectKeyFrame KeyTime="0" Value="*"/>
          </ObjectAnimationUsingKeyFrames>
        </Storyboard>
      </VisualState>
    </VisualStateGroup>
A. Option A
B. Option B
C. Option C
D. Option D
```

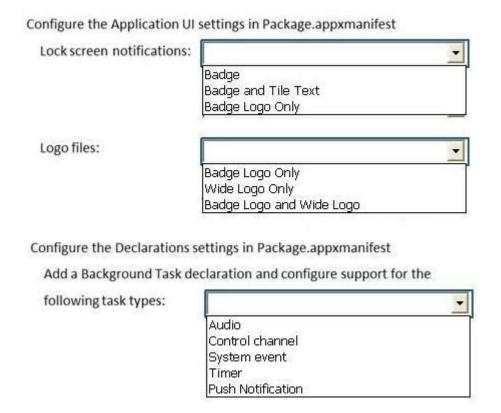
QUESTION:10

Answer: A

- (Topic 1)

You need to meet the business requirements about downloading and uploading.

How should you configure the app? (To answer, select the appropriate options from each drop-down list in the answer area.)



Answer:

Configure the Application UI settings in Package.appxmanifest

Lock screen notifications:

Badge
Badge and Tile Text
Badge Logo Only

Logo files:

Badge Logo Only

Wide Logo Only

Badge Logo and Wide Logo

Configure the Declarations settings in Package.appxmanifest

Add a Background Task declaration and configure support for the following task types:

Audio

Timer

Control channel System event

Push Notification

QUESTION:11 - (Topic 1)

You need to ensure that the VideoProcessor component can be used by the Windows Store app.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Add the following attribute to line IP19.

[Windows.Foundation.Metadata.DefaultOverload()]

- B. Replace line IP01 with the following line of code. static class VideoProcessor
- C. Replace line IP09 with the following line of code. public VideoProcessor(string videoName, int ID)
- D. Add the following attribute to line IP14.

[Windows.Foundation.Metadata.DefaultOverload()]

E. Replace line IP01 with the following line of code. public sealed class VideoProcessor

Answer: A,C,E