



# Exam 70-482

# Advanced Windows Store App Development using HTML5 and JavaScript

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[Total Questions: 175]

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#### Topic 1, Scenario 1

#### **Application Information**

You are developing two Windows Store apps by using JavaScript: a Personal Trainer app and a Client app. The apps will allow personal fitness trainers to interact with their remote clients.

#### **Business Requirements- Personal Trainer Application**

The Personal Trainer app must allow trainers to perform the following tasks:

- Create and store video and audio recordings of workout routines.
- If View the profile and workout recordings for only one client at any time.

#### **Business Requirements- Client Application**

The Client app must allow clients to perform the following tasks:

- *I* Browse a list of the trainer's workout recordings.
- TRecord workouts by using the built-in webcam.
- *I* Play, pause, restart, and stop workout recordings.
- If the capability is supported, allow the client's webcam to pan as the client moves around the room.
- / Upload workout recordings for trainer review.
- Update their individual profiles to indicate workouts completed, calories burned, and current weight.

The Client app must validate that the client's subscription is valid.

#### **Technical Requirements- General**

The Personal Trainer and Client apps must meet the following technical requirements:

- Connect to the Internet.
- # Store workout recordings in the cloud.
- TEnable retrieval of workout recordings by using a custom URL.
- TEncapsulate the video player in a custom control.
- Identify the maximum zoom of the user's webcam in millimeters.
- Store client profiles in XML files in the trainers' Documents folders to allow for disconnected editing.
- Synchronize the XML files with cloud storage by using a background task when the Internet is available.
- Send trainer workout videos to cloud storage by using a background task when the trainer's device is idle. Indicate the status of the upload operation each time the trainer starts the app. Suspend the background task when the Internet is not available.
- Separate business and complex logic into WinMD components. The solution debugging settings must include the WinMD components.

#### **Technical Requirements- Hardware Requirements**

The Personal Trainer and Client apps must support the following hardware requirements:

- # Windows 8
- # Webcam, microphone, and speakers
- / Internet connection

While testing the apps, you identify the following issues:

- When you start the app for the first time, the system displays this warning message: "This app needs permission to use your camera, which you can change in the app's settings."
- When you run the loadClientProfile() method in the clientData.js file, you receive an "Access Denied" exception.
- The findCamera() method in the video.js file throws an exception on some devices.
- The recordVideo() method in the video.js file throws an exception when the device does not support tilting.

#### clientData.js

```
CD01 function loadClientProfile() {
CD02 var fop = new Windows.Storage.Pickers.FileOpenPicker();
CD03 fop.viewMode = Windows.Storage.Pickers.PickerViewMode.thumbnail;
CD04
CD05 fop.fileTypeFilter.replaceAll([".xml"]);
CD06
CD07
        (function (file) {
CD08
         if (file) {
           display(file);
CD09
CD10
         }
CD11
         else {
CD12
           processError(file);
CD13
CD14
        });
CD15 }
CD16
CD17 function saveClientProfile() {
CD18 var sp = new Windows.Storage.Pickers.FileSavePicker();
       sp.defaultFileExtension = ".xml";
CD19
CD20 sp.suggestedFileName = "New Client";
CD21
CD22
CD23 sp.pickSaveFileAsync().then(
CD24
        function (file) {
CD25
         if (file) {
CD26
          displaySaved(file);
CD27
         }
CD28
         else {
CD29
           processError(file);
CD30
CD31
        });
CD32 }
```



#### video.js

VD01 function recordVideo() { VD02 var device = new Windows.Media.Capture.MediaCapture(); VD03 var videoDev = device.videoDeviceController; VD04 var canTilt = videoDev.tilt.capabilities.supported; **VD05 VD06 VD07** ... VD08 } **VD09** VD10 var cameraID; VD11 VD12 function findCamera() { VD13 var deviceInfo = Windows.Devices.Enumeration.DeviceInformation; VD14 deviceInfo.findAllAsync(Windows.Devices.Enumeration.DeviceClass.videoCapture).then (function (devices) { cameraID = devices[0].id; **VD15** VD16 }, errorHandler); VD17 } **VD18** 

#### background.js

```
BG01 function registerBackgroundTask(condition) {
BG02 var builder = new Windows.ApplicationModel.Background.BackgroundTaskBuilder();
BG03 builder.name = "videoLoader";
BG04 builder.taskEntryPoint = "background.js";
BG05 builder.setTrigger(
BG06
      Windows.ApplicationModel.Background.SystemTrigger(
BG07
BG08
       ));
BG09
BG10 ...
BG11 }
BG12
BG13 function unregisterBackgroundTask() {
BG14
BG15 var i = tasks.hasCurrent;
BG16 while (i) {
BG17
        var task = tasks.current.value;
BG18
        if (task.name === "videoLoader") {
BG19
         task.unregister(true);
BG20
        3
BG21
        i = tasks.moveNext();
BG22 }
BG23 }
```

#### Question No : 1 - (Topic 1)

You need to complete the code to start the background task.

Which code segment should you insert at line BG07?



**A.** Windows.ApplicationModel.Background.SystemTriggerType.connectedStateChange, true

B. Windows.ApplicationModel.Background.SystemTriggerType.networkStateChange, false

C. Windows. Application Model. Background. System Trigger Type. session Connected, true

**D.** Windows.ApplicationModel.Background.SystemTriggerType.internetAvailable, false

#### Answer: D

#### Question No : 2 - (Topic 1)

You need to identify the required camera specifications.

Which code segment should you insert at line VD06?

- A. var maxZoom = videoDev.zoom.capabilities.max;
- **B.** var cameraType = videoDev.extendedZoomProperties("cameraType");
- C. var cameraZoom = videoDev.zoom;
- **D.** var minZoom = mediaCaptureSettings.min.millimeters;

#### **Answer: A**

#### Question No : 3 - (Topic 1)

You need to attach the background task.

Which code segment should you insert at line BG09?

A. var task = builder.register();
B. var task = Windows. ApplicationModel.Background.BackgroundTaskBuilder.insert (builder);
C. var task: = Windows.ApplicationModel.Background.BackgroundTaskBuilder.insert (builder, this);
D. var task = builder.setTrigger ();

#### **Answer: A**

#### Question No : 4 - (Topic 1)



You need to set the default storage location for the client profiles.

Which code segment should you insert at line CD04?

- A. fop.defaultFolder = Windows.Storage.Pickers.PickerLocationId.documentsLibrary;
- **B.** fop.defaultFolder = environment.getFolderPath
- (environment.specialFolder.applicationData);
- **C.** fop.suggestedStartLocation = "%AppData%";
- **D.** fop.suggestedStartLocation =

Windows.Storage.Pickers.PickerLocationId.documentsLibrary;

**Answer: A** 

Question No : 5 - (Topic 1)

You need to prevent the exception that is being thrown by the findCamera() method.

What should you do?

A. Check the devices collection for multiple devices.

**B.** Place a try block immediately after line VD12 and a catch block immediately before line VD17. In the catch block, display the message property of the exception object to the user. **C.** In line VD10, set the cameralD variable to null.

**D.** Check the devices collection for null before setting the cameralD variable.

Answer: D

## Question No : 6 - (Topic 1)

You need to debug the error that is displayed in the warning message.

What should you do?

A. In the package.appxmanifest file, set the Webcam property in the Capabilities list.

**B.** Insert the following code segment at line VD18:

var dialog = new Windows.Media.Capture.CameraCaptureUI();

dialog.photoSettings.enableCamera( );

C. In the package.appxmanifest file, add Camera Settings to the available declarations.



**D.** Insert the following code segment at line VD18: var dialog = new Windows.Media.Capture.CameraCaptureUT( ); dialog.videoSet tings.enableCamera ( );

#### Answer: A

Question No : 7 - (Topic 1)

You need to ensure that client profiles can be saved in the required file format.

Which code segment should you insert at line CD21?

A. fop.suggestedSaveFile = "\*.txt";
B. sp.fileTypeChoices.insert("Client Files", [".txt"]);
C. sp.fileTypeChoices = new.fileTypeItem("Client Files", [".xml"]);
D. sp.fileTypeChoices.insert("Client Files", ".xml"]);

#### Answer: D

## Question No : 8 - (Topic 1)

You need to validate whether the additional video recording functionality for the Client app is supported.

Which code segment should you insert at line VD05?

- A. var canPan = mediaCaptureSettings.pan.capabilities.supported;
- **B.** var canPan = videoDev.pan.capabilities.supported;
- **C.** var canTilt = videoDev.getDeviceProperty("tilt");
- **D.** var canTilt = videoEev.getDeviceProperty("tilt supported");

#### Answer: B

#### Question No : 9 - (Topic 1)

You need to handle the exception error in the clientData.js file.

What should you do?

**A.** Modify the display function to handle the error.

**B.** Insert a try statement immediately after line CD07 and a catch block immediately before line CD14. Handle the error in the catch block.

**C.** Modify the processError function to handle the error.

**D.** Insert a try statement immediately after line CD01 and a catch block immediately before line CD15. Handle the error in the catch block.

#### Answer: A

#### Question No : 10 - (Topic 1)

You need to validate whether the additional video recording functionality for the Client app is supported.

Which code segment should you insert at line VD05?

- A. var canFocus = videoDev.getEeviceProperty("focus");
- **B.** var car.Zoom = videoDev.getEeviceProperty ("zoom") ;
- C. var canPan = videoDev.pan.capabilities.supported;
- D. var canPan = mediaCaptureSettings.pan.capabilities .supported;

#### Answer: C

#### Question No : 11 - (Topic 1)

You need to attach the background task.

Which code segment should you insert at line BG09?

- A. var task = builder.setTrigger(this);
- **B.** var task = builder.setTrigger( );
- C. var task = builder.register ();
- **D.** var task = builder.register (this);

#### Answer: C





#### Question No : 12 - (Topic 1)

You need to enable trainers to select client profiles.

Which code segment should you insert at line CD06?

- **A.** fop.pickMultipleFileAsync (). then(
- **B.** fop.pickFileAsync (). then (
- **C.** fop.pickSingleFileAsync () .then{
- **D.** fop.pickSingleFile ( ).then (

Answer: C

#### Question No : 13 - (Topic 1)

You need to prevent the device-specific tilting exception.

What should you do in the video.js file?

**A.** Insert a try statement immediately after line VD01 and a catch block immediately before line VD08. Handle the VideoNotFound exception.

**B.** Evaluate the canTilt variable. If true, bypass the code that tilts the camera.

**C.** Evaluate the canTilt variable. If false, bypass the code that tilts the camera.

**D.** Insert a try statement immediately after line VD01 and a catch block immediately before line VD08. Handle the MediaNotFound exception.

#### Answer: C

#### Question No : 14 - (Topic 1)

You need to retrieve the background task collection for the iteration loop.

Which code segment should you insert at line BG14?



О А.	<pre>var tasks = Windows.ApplicationModel.Background.BackgroundTaskRegistration.allTasks.first();</pre>
ОВ.	<pre>var tasks = Windows.ApplicationModel.Background.BackgroundTaskRegistration.allTasks ();</pre>
о с.	<pre>var tasks = Windows.ApplicationModel.Background.BackgroundTaskRegistration.first();</pre>
О D.	<pre>var tasks = Windows.ApplicationModel.Background.BackgroundTaskBuilder.allTasks.first ();</pre>
A. Option A B. Option B	

- C. Option C
- D. Option D

Answer: A

#### Question No : 15 - (Topic 1)

You need to separate the business and complex logic into components.

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

A. In the JavaScript code, register the handler for the extension/mime-type.

**B.** In the package.appxmanifest file, create an Extensions section and register the component .dll file.

**C.** In Windows Explorer, drag the component .dll file to the project bin directory.

**D.** In Microsoft Visual Studio Solution Explorer, right-click the References folder and then click Scope to This.

#### Answer: A,B

**Explanation:** A: In Microsoft Internet Explorer 4.0 and later, MIME type determination occurs in URL monikers through the FindMimeFromData method. Determining the MIME type allows URL monikers and other components to find and launch the correct object server or application to handle the associated conten

B:

\* An application that registers a background task needs to declare the feature in the application

manifest as an extension, as well as the events that will trigger the task. If you forget these steps, the registration will fail. There is no <Extensions> section in the application manifest of the Microsoft Visual Studio standard template by default, so you need to insert