

70-482

Advanced Windows Store App Development
Using HTML5 and JavaScript

DEMO

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Topic 1, Scenario 1

Application Data

You are making use of JavaScript to create two Windows Store apps, namely a Tutor app and a Student app. The apps should enable tutors to remotely interact with students.

Business Prerequisites - Tutor Application

Tutors should be able to create and store video and audio recordings of lessons. Also, the profile and lesson recordings for only one student should be visible to tutors at any time.

Business Prerequisites - Student Application

Students should be able to peruse a list of the tutor's lessons, as well as record lessons via the built-in webcam. Students should also be able to play, pause, restart, and stop lessons.

Furthermore, students must have the ability to upload lessons for tutor assessment, as well as update their specific profiles to specify completed lessons.

You have to make sure that the Student app confirms the student's valid subscription.

Technical Prerequisites- General

Both apps should be able to connect to the Internet, and store lessons in the cloud. The apps should also allow for lessons to be accessed via a custom URL, and for a custom control to encapsulate the video player.

The zoom limit of user's webcam, in millimeters, should be detectible. To allow for disconnected editing, the tutors' Documents folders should host student profiles in XML files. A background task should be used to synchronize the XML files with cloud storage when the Internet is available.

A background task should also be used to transmit tutor lesson videos to cloud storage when the tutor's device is inactive. Whenever the tutor starts the app, the upload operation status should be shown. In the event that the Internet is unavailable, the background task should be postponed.

Business and complex logic must be divided into WinMD components, which should be included in the solution debugging settings.

Technical Prerequisites - Hardware Prerequisites

The use of Windows 8, Webcams, microphones, speakers, and Internet connections should be allowed by both apps.

Problem Statements

When you initially start the app during testing, you are presented with a message, which warns you that permission is required to use your webcam. The message also informs you that you have to access the app settings to grant the necessary permission.

Making use of the loadStudentProfile() method in the studentData.js file, results in an "Access Denied" exception. Making use of findCamera() method in the video.js file, results in an exception being thrown on certain devices. In the event of tilting not being supported by the device, an exception is thrown in the video.js file by the recordVideo() method.

QUESTION NO: 1

You have been instructed to make sure that the background task is initialized.

You are planning to make use of the Windows.ApplicationModel.Background class.

Which class of the Windows.ApplicationModel.Background class should be used?

- A. The TimeTrigger class.
- B. The SystemTrigger class.
- C. The SystemCondition class.
- D. The PushNotificationTrigger class.

Answer: B

Explanation:

QUESTION NO: 2

You have been instructed to make sure that the findCamera method does not throw an exception. You start by verifying that there are is not null in the devices collection.

Which of the following actions should you take NEXT?

- A. You should consider setting the computerID variable.
- B. You should consider setting the userID variable.
- C. You should consider setting the videoID variable.
- D. You should consider setting the cameraID variable.

Answer: D

Explanation:

QUESTION NO: 3

You have been given the task of the warning message error. You want to configure the Webcam property.

Which of the following actions should you take?

- A. You should consider accessing the Capabilities list of the package.appxmanifest file.
- B. You should consider accessing the Resources list of the package.appxmanifest file.
- C. You should consider accessing the Abilities list of the package.appxmanifest file.
- D. You should consider accessing the Strengths list of the package.appxmanifest file.

Answer: A

Explanation:

QUESTION NO: 4

You have been instructed to write code to make sure that student profiles can be saved in the necessary file format.

Which of the following in the property of the FileSavePicker class that must be included in your code?

- A. The settingsIdentifier property.
- B. The suggestedFileName property.
- C. The suggestedSaveFile property.
- D. The fileTypeChoices property.

Answer: D

Explanation:

QUESTION NO: 5

You have been asked to make sure that the exception thrown in the studentData.js file is suitably handled.

Which of the following actions should you take?