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A Composite Solution With Just One Click

Microsoft

98-375 PRACTICE EXAM

HTML5 Application Development Fundamentals

Total Questions: 132/4Case Study

Question: 1

You are developing a Windows Store app. Users must be able to initiate searches by using the Search charm. The app must display the search text in a DIV element named statusMessage. You need to add code to meet this requirement. Which code segment should you add?

A.

```
WinJS.Application.onactivated = function (e) {
    if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
        var statusDiv = document.getElementById("statusMessage");
        statusDiv.innerText = "Searching with query: " + e.detail.queryText;
    }
};
```

B.

```
WinJS.Application.onactivated = function (e) {
    if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
        var statusDiv = document.getElementById("statusMessage");
        statusDiv.innerText = "Searching with query: " + e.detail.queryText;
    }
};
```

C.

```
WinJS.Application.addEventListener("search", function (e) {
    if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
        var statusDiv = document.getElementById("statusMessage");
        statusDiv.innerText = "Searching with query: " + e.detail.queryText;
    }
});
```

D.

```
WinJS.Application.onsearch = function (e) {
    var statusDiv = document.getElementById("statusMessage");
    statusDiv.innerText = "Searching with query: " + e.detail.queryText;
};
```

Answer: B

Question: 2

You are developing a Windows Store app. The app includes a handler for the datarequested event. A portion of the code for the event handler is shown in the following code segment:

```
01 function onDataRequested(e) {  
02   e.request.data.properties.title = "Order #12345";  
03   e.request.data.properties.description = "Track your order";  
04   var url = "http://www.fabrikam.com?Order=12345";  
05  
06 }
```

The app must meet the following requirements:

- The app must share an order tracking link with target apps.
- The app must share URI-type data only.

You need to ensure that the app meets the requirements. Which code segment should you insert at line 05?

A.

```
e.request.data.setData(url);
```

B.

```
e.request.data.setText(url);
```

C.

```
var link = new Windows.Foundation.Uri(url);  
e.request.data.setUri(link);
```

D.

```
var link = new Windows.Foundation.Uri(url)  
e.request.setLink(link);
```

Answer: C

Question: 3

HOTSPOT

You are developing a Windows Store app. The app allows users to browse contacts from a social networking site. The app has the following requirements:

- The user must be able to select more than one contact at a time.
- The app must display all of the details for the selected contacts.

You need to ensure that the requirements are met. Which code segments should you use? (To answer, select the correct option from each drop-down list in the answer area.)

```
function selectContacts() {
    var picker = Windows.ApplicationModel.Contacts.ContactPicker();
    picker.commitButtonText = "Select";
    picker.selectionMode =
        
    .then(function (contacts) {
        ...
    });
}
function selectContacts() {
    var picker = Windows.ApplicationModel.Contacts.ContactPicker();
    picker.commitButtonText = "Select";
    picker.selectionMode =
        
    picker.pickSingleContactAsync()
    picker.pickMultipleContactsAsync()
    Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
    Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
}



```
.then(function (contacts) {
 ...
});
}

```


```

Answer:

```

function selectContacts() {
    var picker = Windows.ApplicationModel.Contacts.ContactPicker();
    picker.commitButtonText = "Select";
    picker.selectionMode =
        Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
    Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
}

picker.pickSingleContactAsync()
picker.pickMultipleContactsAsync()
Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;

.then(function (contacts) {
    ...
});
}

```

Question: 4

HOTSPOT

You are developing a Windows Store app. You need to allow the app to share content with other applications. 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.)

Add a listener for the **datarequested** event of the **DataTransferManager** object.

Add a listener for the **packagerequested** event of the **DataTransferManager** object.

Call the **NotifyPropertyChanged()** method on the **DataTransferManager** object.

Call the **getForCurrentView()** method on the **DataTransferManager** object.

Set the properties on the **DataTransferManager** object.

Set the properties on the **DataRequest** object.

Answer:

Add a listener for the **packagerequested** event of the **DataTransferManager** object.

Call the `getForCurrentView()` method on the **DataTransferManager** object.

Set the properties on the **DataTransferManager** object.

Call the `NotifyPropertyChanged()` method on the **DataTransferManager** object.

Add a listener for the **datarequested** event of the **DataTransferManager** object.

Set the properties on the **DataRequest** object.

Question: 5

You are developing two Windows Store apps named PhotoApp and PictureAlbum. The apps must meet the following requirements:

- PhotoApp must have access to images on the local computer on which PhotoApp is running.
- PictureAlbum must be able to access the images from PhotoApp.

You need to configure the deployment package settings for both apps to ensure that the requirements are met. What should you do?

- A. Add the Pictures Library setting to the list of declarations for PhotoApp, and add the Share Target setting to the list of capabilities for PictureAlbum.
- B. Add the Share Target setting to the list of declarations for PictureAlbum, and add the Pictures Library setting to the list of capabilities for PhotoApp.
- C. Add the Pictures Library setting to the list of capabilities for PictureAlbum, and add the Share Target setting to the list of declarations for PictureAlbum.
- D. Add the URI of PhotoApp to the Content URIs list for PictureAlbum, and add the URI of PictureAlbum to the Content URIs list for PhotoApp.

Answer: A

Question: 6

You are planning to deploy a Windows Store app to a large number of users. The size of the app is approximately 5 GB. You need to package the app to prepare it for deployment to the Windows Store. How many packages should you use?

- A. 3
- B. 1
- C. 2
- D. 4

Answer: A

Question: 7

You are developing a Windows Store app by using HTML5. The app will be optimized for accessibility. The app must meet the following accessibility requirements:

- Provide support for navigating all user interface elements.
- Provide support for invoking default functionality on the user interface.
- Provide support for use of a computer keyboard.

You need to ensure that the app meets the accessibility requirements. Which actions should you perform? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Set the tabIndex attribute for interactive elements. Dynamically manage the tabIndex attribute for composite elements.
- B. Set the aria-live attribute of user interface elements to polite for important content that changes dynamically.
- C. Ensure that visible text has a minimum luminosity contrast ratio of 1:1 against the background.
- D. Implement event handlers for invoking default functionality.

Answer: AB

Question: 8

HOTSPOT

You are developing a Windows Store app. You need to ensure that a file that is launched by the app is handled when the app is activated. Which code segment should you use? (To answer, select the correct option from the drop-down list in the answer area.)

```
function activatedHandler(eventArg) {  
    var activationKind =  
        Windows.ApplicationModel.Activation.ActivationKind;  
    if (eventArg.detail.kind ==  ) {  
        ...  
    }  
  
function activatedHandler(eventArg) {  
    var activationKind =  
        Windows.ApplicationModel.Activation.ActivationKind;  
    if (eventArg.detail.kind ==  ) {  
        ...  
    }  
        activationKind.cachedFileUpdater  
        activationKind.file  
        activationKind.fileOpenPicker  
        activationKind.fileSavePicker
```

Answer:

```

function activatedHandler(eventArg) {
    var activationKind =
        Windows.ApplicationModel.Activation.ActivationKind;
    if (eventArg.detail.kind == )
        ...
}

```

The dropdown menu shows the following options:

- activationKind.cachedFileUpdater
- activationKind.tile**
- activationKind.fileOpenPicker
- activationKind.fileSavePicker

Question: 9

You are developing a Windows Store app by using HTML5 and JavaScript. The app will support both the English and French languages. The app must meet the following requirements:

- Automatically load language-specific string resources from a resource file, and access the resources from within the HTML by using data-win-res attributes.
- Use the base.js file from the Windows Library for JavaScript.

You need to ensure that the correct language-specific resources are used. What should you do?

- A. Specify both the element properties and the resource names of data-win-res attributes, and process the data-win-res attributes in the onactivated event.
- B. Specify only the properties of data-win-res attributes, and process the data-win-res attributes prior to the DOMContentLoaded event.
- C. Specify both the element properties and the resource names of data-win-res attributes, and process the data-win-res attributes immediately after the DOMContentLoaded event.
- D. Specify only the resource names of data-win-res attributes, and process the data-win-res attributes in the onactivated event.

Answer: C

Question: 10

HOTSPOT

You are developing a Windows Store weather app. You need to restore the state of the app while the app is being reactivated. Which code segments should you use? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

```
WinJS.Application.start  
WinJS.Application.onactivated  
WinJS.Application.onready  
WinJS.Application.sessionState  
Windows.ApplicationModel.Activation.ActivationKind.device  
Windows.ApplicationModel.Activation.ActivationKind.launch  
.....  
  
} = function (e) {  
if (e.detail.kind ===  
    .....  
) {  
if (  
    .....  
) {  
}  
}  
};
```

Answer:

```
WinJS.Application.start  
  
WinJS.Application.onready  
  
Windows.ApplicationModel.Activation.ActivationKind.device  
  
:::::::::::  
  
WinJS.Application.onactivated = function (e) {  
    if (e.detail.kind ===  
        Windows.ApplicationModel.Activation.ActivationKind.launch) {  
        if (WinJS.Application.sessionState) {  
        }  
    }  
};
```

Question: 11

You are developing a Windows Store app that will be used to display daily high temperatures and other weather conditions for five cities. The app must meet the following requirements:

- A splash screen is displayed on the device until the data is retrieved from the Internet.
- The user must be able to view weather information as soon as the data is fully available.

You need to ensure that the splash screen is displayed at startup until the app has completed loading updated data. Which actions can you perform to achieve this goal? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Configure settings in the app manifest to display the splash screen until the data is fully available.
- B. Create an image that duplicates the splash screen, load the image from the dismissed event of the splash screen, and display the image until the data is fully available.
- C. Create an image that duplicates the splash screen, and display the image by using fragment loading until the data is fully available.
- D. Configure settings in the app manifest to display the splash screen for 10 seconds.

Answer: DC

Question: 12

You are developing a Windows Store app. The app includes the following HTML markup:

```
<div class="Container">
  <div class="Child1">
    Child 1
  </div>
  <div class="Child2">
    Child 2
  </div>
<div class="Container">
  </div>
```

You are creating a Flexible Box layout for the application. The layout must be configured as shown in the following display.



The Flexible Box layout must conform to the following requirements:

- The Child2 DIV element must appear on the right side of the layout.
- The Child1 DIV element must appear immediately to the left of Child2.

You need to add CSS to ensure that the requirements are met. Which CSS segment should you add to the style sheet?

A.

```
.Container {
  -ms-box-orient: horizontal;
  background: grey;
  border: blue;
}

.Child1 {
  border: thick solid red;
}

.Child2 {
  border: thick solid blue;
}
```

B.

```
.Container {
  background: grey;
  border: blue;
}

.Child1 {
  float: left;
  border: thick solid red;
}

.Child2 {
  float: right;
  border: thick solid blue;
}
```

C.

```
.Container {
    display: -ms-box;
    background: grey;
    border: blue;
}
.Child1 {
    width: 100px;
    height: 100px;
    border: thick solid red;
}
.Child2 {
    width: 100px;
    height: 100px;
    border: thick solid blue;
}
```

D.

```
.Container {
    display: -ms-box;
    -ms-box-pack: end;
    background: grey;
    border: blue;
}
.Child1 {
    width: 100px;
    height: 100px;
    border: thick solid red;
}
.Child2 {
    width: 100px;
    height: 100px;
    border: thick solid blue;
}
```

Answer: D

Question: 13

You are developing a Windows Store text editor app by using HTML5 and JavaScript. Users must be able to select text within the app and then copy the text. You need to enable the copy feature. Which code segments should you use? (Each correct answer presents part of the solution. Choose all that apply.)

A.

```
var menu = new Windows.Graphics.UI.Popups();
menu.commands.append(new Windows.UI.Popups.UICommand("Copy", null, 1));
```

B.

```
var menu = new Windows.UI.Popups.PopupMenu();
menu.commands.append(new Windows.UI.Popups.UICommand("Copy", null, 1));
```

C.

```

function handleKeyPressUp(e) {
    var KeyID = e.keyCode;
    ...
}
document.oninput = handleKeyPressUp;

```

D.

```

varmenu = newWindows.UI.Popups();
menu.commands.append(newWindows.UI.Popups.UICommand("Copy", null, 1));

```

E.

```

function handleKeyPressUp(e) {
    var KeyID = e.keyCode;
    ...
}
document.onkeyup = handleKeyPressUp;

```

F.

```

function handleKeyPressUp(e) {
    var KeyID = e.keyCode;
    ...
}
document.onkeyclick = handleKeyPressUp;

```

Answer: AB

Question: 14

You are developing a Windows Store app. The app will format a paragraph of text to resemble the following image.

This is sample text. This is sample text. This is sample text. This is sample text.
This is sample text. This is sample text. This is sample text.
This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.
This is sample text. This is sample text. This is sample text.
This is sample text. This is sample text. This is sample text.

The app must format the paragraph to meet the following requirements:

- The paragraph must be divided between two columns.
- Columns must be separated by vertical lines that are two pixels wide.

You need to ensure that the format of the paragraph meets the requirements. Which code segment should you add?

A.

```
p {
    column-width: auto 2;
    column-gap: 2em;
    column-rule: 2em solid #808080;
    padding: 1px;
}
```

B.

```
p {
    columns: auto 2;
    column-gap: 2em;
    column-rule: 2em solid #808080;
    padding: 2em;
}
```

C.

```
p {
    column-width: auto 2;
    column-gap: 2em;
    column-rule: 2px solid #808080;
    padding: 2em;
}
```

D.

```
p {
    columns: auto 2;
    column-gap: 2em;
    column-rule: 2px solid #808080;
    padding: 2em;
}
```

Answer: D

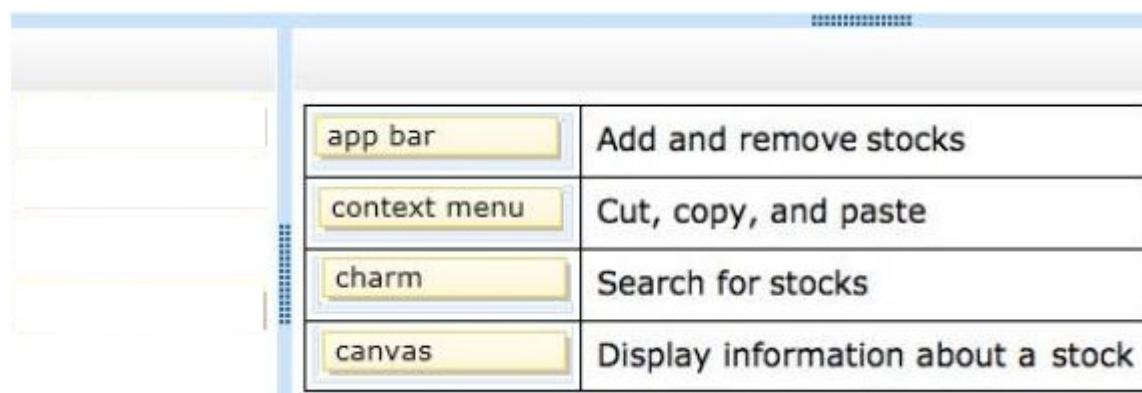
Question: 15

HOTSPOT

You are designing a Windows Store app. The app displays prices and other information for various stocks. The app must allow the user to perform the following actions:

- Add and remove stocks.
- Search by stocks name.
- Display information about stocks.

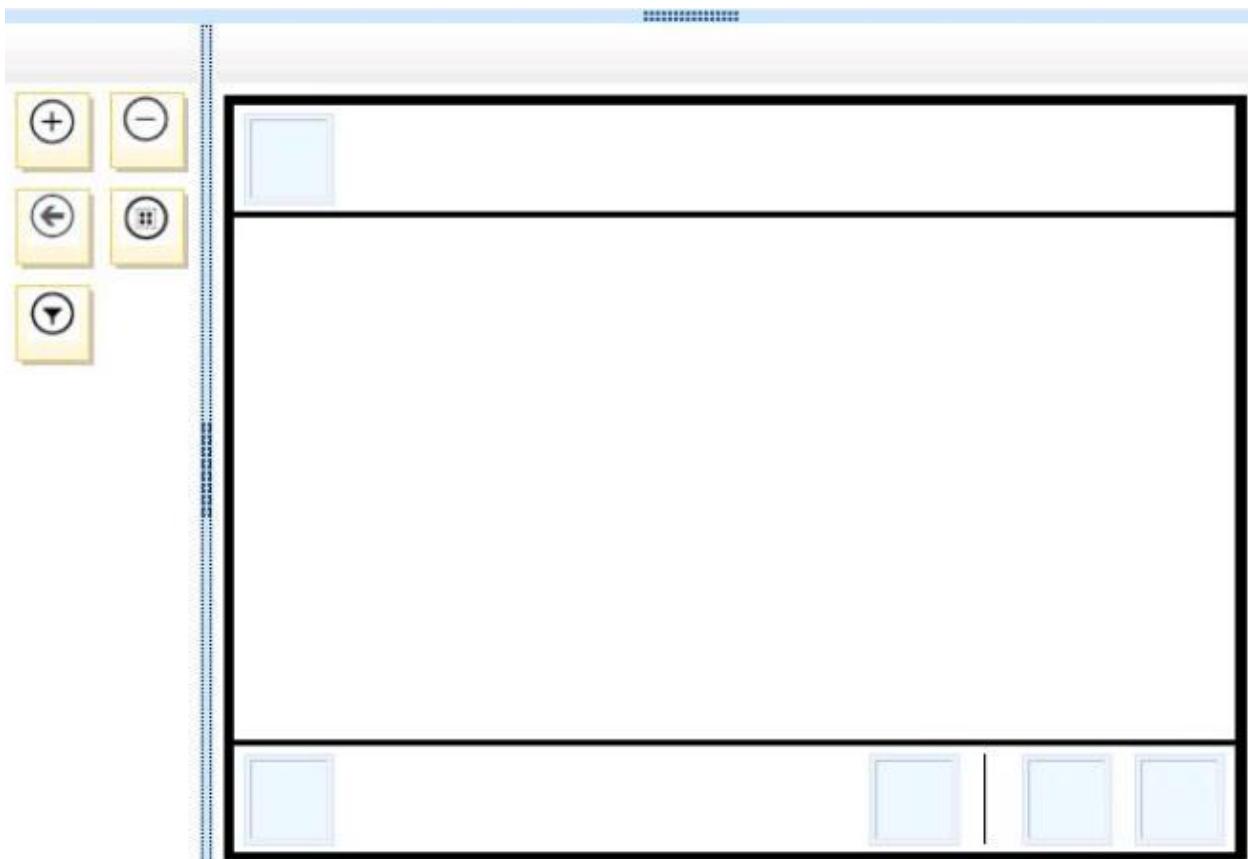
You need to add the appropriate features to the app bar. Which features should you add to the app bar? (To answer, drag the appropriate features to the correct locations in the answer area. Each feature may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

**Answer:****Question: 16****HOTSPOT**

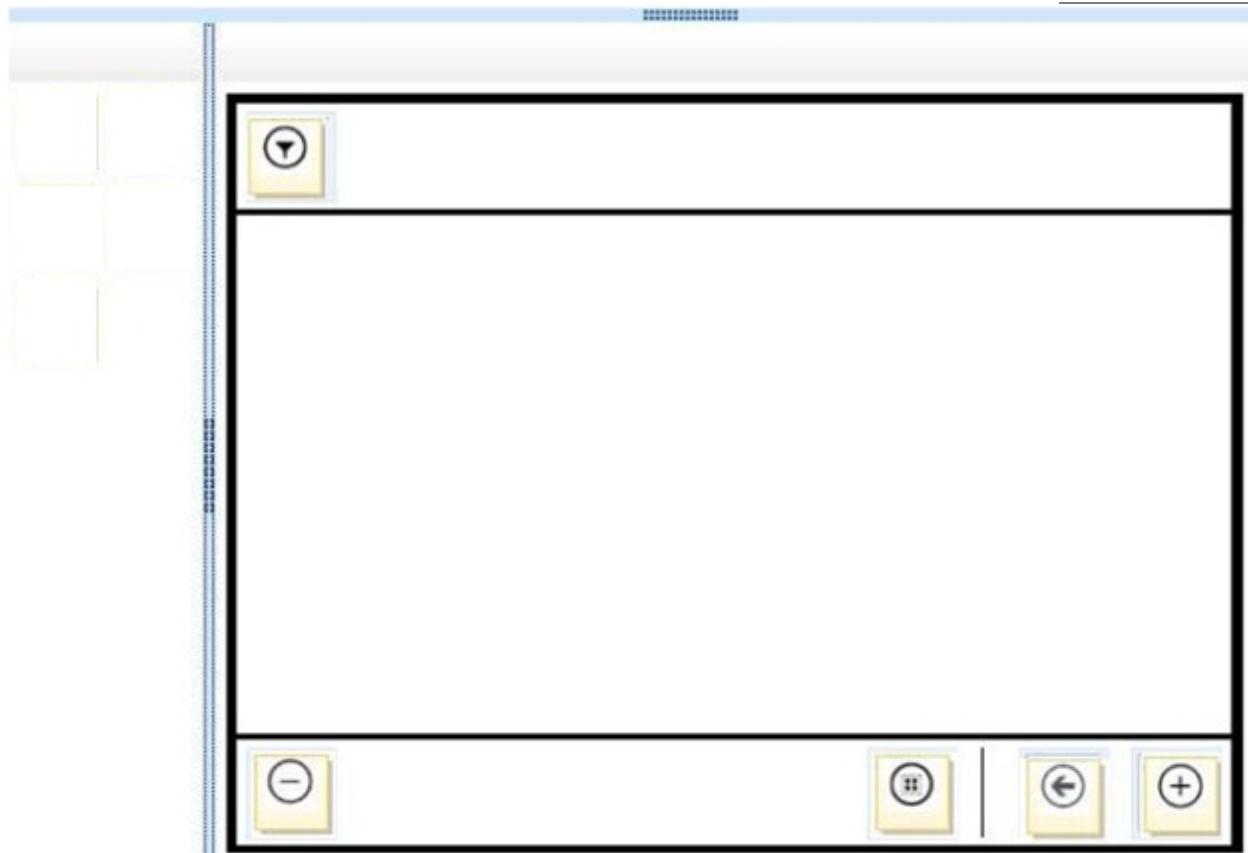
You are developing a Windows Store app. The app will be used to manage a task list. The app has the following requirements:

- Support commands to add, remove, filter, and select all items in the task list.
- Support navigation to the previous screen.

You need to ensure that the commands are placed according to Microsoft design style guidelines. Where should you place each command? (To answer, drag each command to the correct placement location. Each answer must be used only once. You may need to drag the split bar between panes or scroll to view content.)



Answer:



Question: 17

You are developing a Windows Store app. The app will be used on devices that are capable of changing view states. The app contains the following CSS code segment. (Line numbers are included for reference only.)

```

01 .fragment header[role=banner] {
02   -ms-grid-columns: 100px 1fr;
03 }
04
05
06 .fragment header[role=banner] .win-backbutton {
07   margin-left: 29px;
08 }
09 }
```

The app has the following requirements when the host device is in a landscape orientation:

- The app's client area must be the same height as the device's height.
- The app's client area must be the same width as the device's width.

You need to ensure that the layout of the device screen meets the requirements.

Which code segment should you insert at line 01?

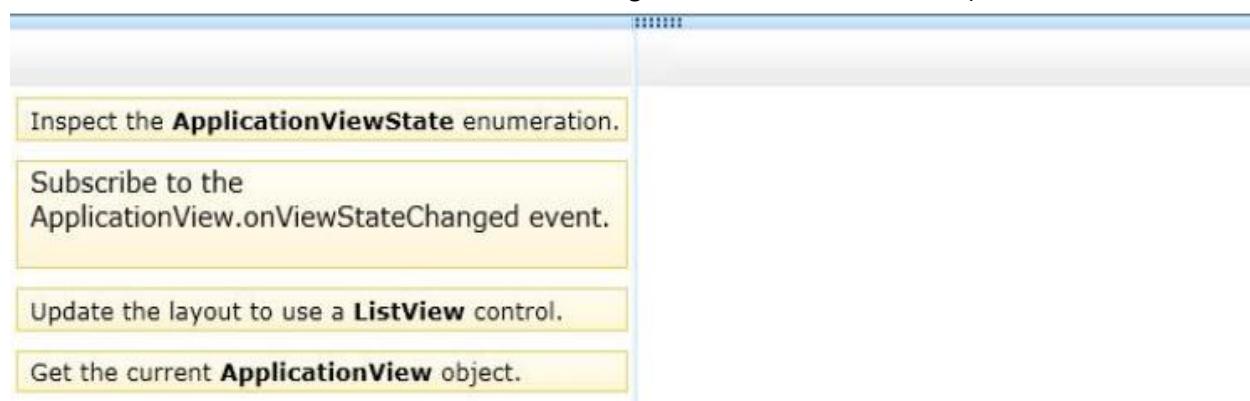
- A. @ device screen and (-ms-view-state: fullscreen-landscape) {
- B. @ device screen and (-ms-view-state: fullscreen-snapped) {
- C. @ media screen and (-ms-view-state: fullscreen-landscape)
- D. @ media all and (-ms-view-state: fullscreen-snapped) {

Answer: C

Question: 18

HOTSPOT

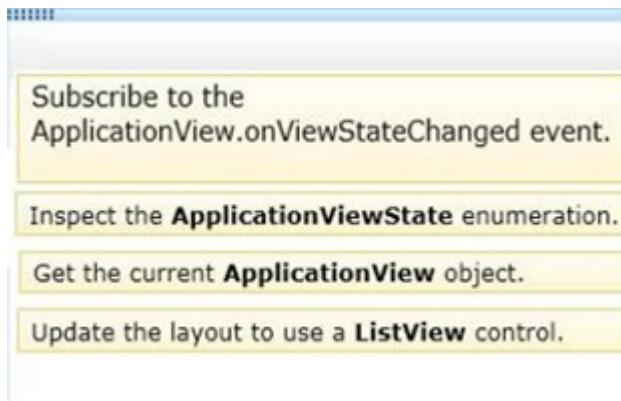
You are developing a Windows Store app that allows the user to write reviews for a company's products. The product selection page must switch to a vertical list layout when the app is snapped. You need to ensure that the product layout is updated. Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)



The image shows a Windows Store app interface with a horizontal bar at the top. Below the bar are four yellow rectangular boxes, each containing an action item:

- Inspect the **ApplicationViewState** enumeration.
- Subscribe to the **ApplicationView.onViewStateChanged** event.
- Update the layout to use a **ListView** control.
- Get the current **ApplicationView** object.

Answer:



Question: 19

You are developing a Windows Store app that uses a fluid layout for all user interface elements. You need to ensure that app elements are styled appropriately based on the size and orientation of the app on the screen. Which media feature should you evaluate?

- A. -ms-application-state
- B. –resolution
- C. -ms-view-state
- D. -aspect-ratio

Answer: C

Question: 20

HOTSPOT

You are developing a Windows Store travel-planning app. An array named dataArray stores information about travel categories. The array is defined in the following code:

```
(function () {
    "use strict";

    var dataArray = [
        { title: "Cars", picture: "/images/cars.png" },
        { title: "Cruises", picture: "/images/cruises.png" },
        { title: "Flights", picture: "/images/flights.png" },
        { title: "Hotels", picture: "/images/hotel.png" },
        { title: "Packages", picture: "/images/packages.png" }
    ];

    var dataList = new WinJS.Binding.List(dataArray);
    var publicMembers =
    {
        itemList: dataList
    };
    WinJS.Namespace.define("Travel", publicMembers);
})();
```

The app must display the title and image for each travel category in a ListView control. You need to define the HTML for the ListView control. How should you complete the HTML? (To answer, drag each appropriate attribute or object to the correct location or locations in the answer area. Each attribute or object 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.)

The screenshot shows a Windows Store App XML code editor. On the left, there are two yellow-highlighted sections of code:

- The first section contains the template definition for the ListView item:


```
"WinJS.Binding.Template"
data-win-bind="src: picture"
data-win-options="{itemDataSource}"
"WinJS.UI.ListView"
```
- The second section contains the ListView definition:


```
data-win-control="src: picture"
data-win-bind="innerText: title"
```

On the right, the main pane displays the generated HTML code. It includes a template definition and a ListView element. The template definition is as follows:

```
<div id="myTemplate"
      data-win-control= [ ] >
  <div class="regularListIconTextItem">
    <img [ ] class="regularListIconTextItem-Image" >
    <div class="regularListIconTextItem-Detail">
      <h5 [ ] ></h5>
    </div>
  </div>
</div>
```

The ListView definition is as follows:

```
<div id="myListView"
      data-win-control= [ ] >
  <div data-win-options=
    "{itemDataSource : Travel.itemList.dataSource,
      itemTemplate: select('#myTemplate') }">
  </div>
```

Answer:

```
data-win-options="{itemDataSource}"
```

```
data-win-control="src: picture"
```

```
<div id="myTemplate"
      data-win-control="WinJS.Binding.Template">
    <div class="regularListIconTextItem">
      <img data-win-bind="src: picture"
           class="regularListIconTextItem-Image" />
      <div class="regularListIconTextItem-Detail">
        <h5 data-win-bind="innerText: title" ></h5>
      </div>
    </div>
</div>
<div id="myListView"
      data-win-control="WinJS.UI.ListView"
      data-win-options=
      "{itemDataSource : Travel.itemList.dataSource,
       itemTemplate: select('#myTemplate') }">
</div>
```

Question: 21

HOTSPOT

You are developing a Windows Store app that uses a CredentialPicker control to collect the user's user name and password credentials. The CredentialPicker control has the following requirements:

- The Remember my credentials check box must be selected by default.
- The text "Enter user name and password" must be displayed in the message header of the dialog box.

You need to ensure that the requirements are met. Which properties should you use? (To answer, drag the appropriate properties to the correct locations in the answer area. Each property 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.)

```
caption
```

```
message
```

```
credentialSaveOption
```

```
callerSavesCredentials
```

```
var credentialPickerOptions =
  new Windows.Security.Credentials.UI.CredentialPickerOptions();
credentialPickerOptions.targetName = "Metro";
credentialPickerOptions.caption = "Enter User Name and Password";
credentialPickerOptions.credentialSaveOption = true;
Windows.Security.Credentials.UI.CredentialPicker.pickAsync(credentialPickerOptions);
```

Answer:

```
message
```

```
callerSavesCredentials
```

```
var credentialPickerOptions =
  new Windows.Security.Credentials.UI.CredentialPickerOptions();
credentialPickerOptions.targetName = "Metro";
credentialPickerOptions.caption = "Enter User Name and Password";
credentialPickerOptions.credentialSaveOption = true;
Windows.Security.Credentials.UI.CredentialPicker.pickAsync(credentialPickerOptions);
```

Question: 22

You are developing a Windows Store app by using HTML5 and JavaScript. The app will be used to display image files from a folder. The app has the following requirements:

- The file name, size, and a thumbnail view of the image must be displayed in a ListView control.
- The user must be able to group the files into an album.

You need to ensure that the requirements are met. What should you do?

A. Create a custom DataSource object.

Implement only the IListDataSource interface of the DataSource object.

B. Create a WinJS.UI.FlipView object.

Bind the object to the ListView control.

C. Create a custom DataSource object.

Implement only the IListDataAdapter interface of the DataSource object.

D. Create a WinJS.UI.StorageDataSource object.

Bind the object to the ListView control.

Answer: D

Question: 23

HOTSPOT

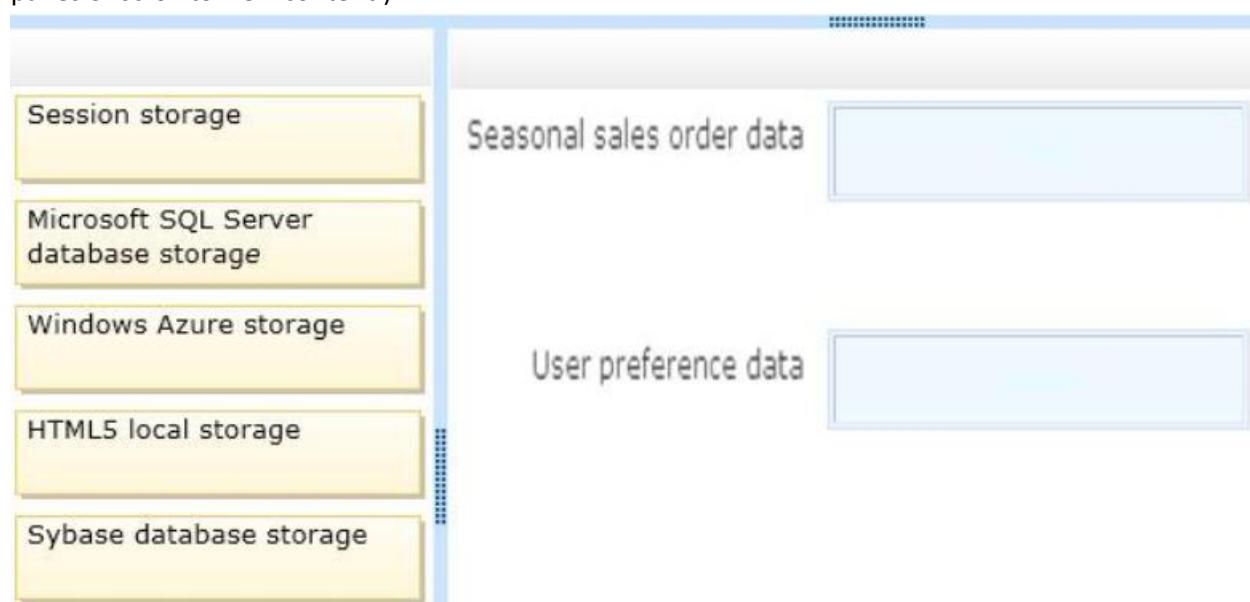
You are developing a Windows Store app for purchasing school supplies. The app has the following storage requirements:

Inventory data must be accessible to the app and over the Internet to external suppliers. Suppliers will access the data over HTTP by using OData.

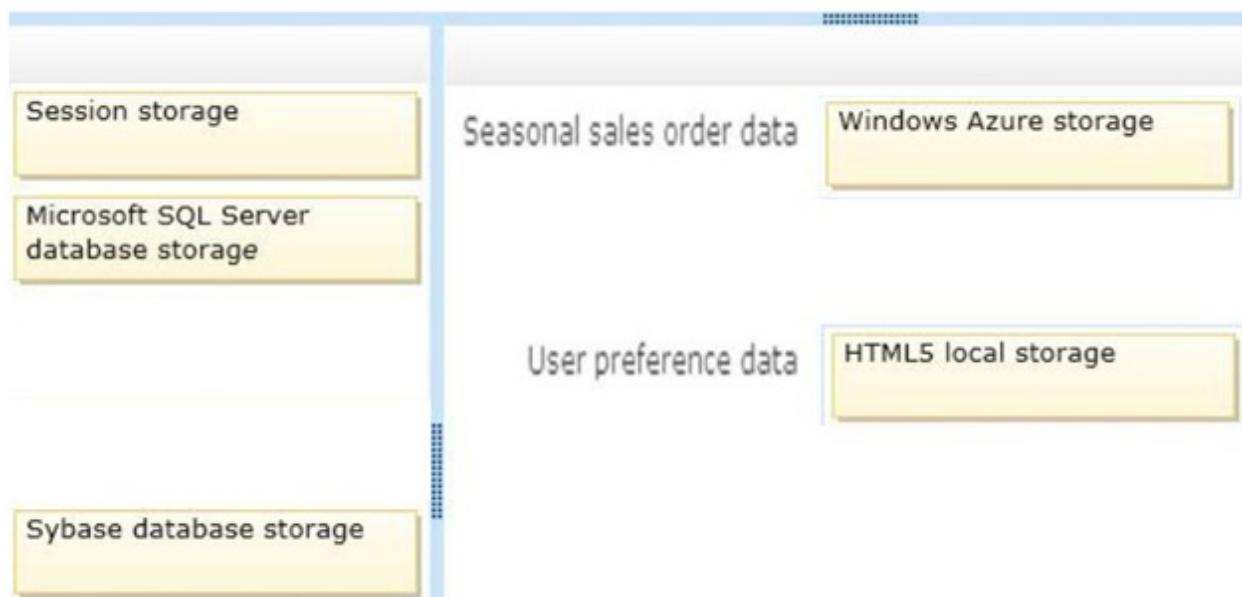
App storage for the high volume sales periods must be able to scale rapidly, but at the lowest possible cost.

Color preferences for the user must be stored on the host device.

You need to choose the appropriate data access strategy for each requirement. Which data access strategies should you use? (To answer, drag the appropriate data access strategies to the correct requirements in the answer area. Each data access strategy 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.)



Answer:



Question: 24

You are developing a Windows Store app by using JavaScript. The app will be used to retrieve data from a web service. The app must retrieve the current date and time in UTC format from the web service by using the URL <http://www.treyresearch.net/GetDateTimeinUTC.asmx>. Errors must be handled. You must ensure that data is retrieved successfully. Which code segment should you use?

A.

```
WinJS.xhr({ url: "http://www.treyresearch.net/GetDateTimeinUTC.asmx" })
  .then(function complete(result) {
    ...
  });

```

B.

```
WinJS.xhr({ type: "POST", url: "http://www.treyresearch.net/GetDateTimeinUTC.asmx"})
  .done(function complete(result) {
    ...
  },
  function error(result) {
    ...
  });

```

C.

```
WinJS.xhr({ type: "PUT", url: "http://www.treyresearch.net/GetDateTimeinUTC.asmx"})
  .done(function complete(result){
    ...
  });

```

D.

```
WinJS.xhr({ url: "http://www.treyresearch.net/GetDateTimeinUTC.asmx" })
.done(function complete(result) {
  ...
},
function error(result) {
  ...
});
```

Answer: D

Question: 25**HOTSPOT**

You are developing a Windows Store alarm clock app. When an alarm is triggered, the app must present a toast notification that plays a repeating audio alert until dismissed. You need to ensure that the repeating audio alert is played. How should you define the toast notification? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

audio.setAttribute("loop", "true");
 audio.setAttribute("repeat", "true");
 toast.setAttribute("duration", "long");
 toast.setAttribute("duration", "extended");

:::::::

```
function buildToast() {
  var tmpl = Windows.UI.Notifications.ToastTemplateType.toastText01
  var xml =
    Windows.UI.Notifications.ToastNotificationManager.getTemplateContent(tmpl);
  var toast = xml.selectSingleNode("/toast");
   
  var audio = xml.createElement("audio");
  audio.setAttribute("src", "ms-winsoundevent:Notification.Looping.Alarm");
   
  toast.appendChild(audio);
  return toast;
}
```

Answer:

```
audio.setAttribute("repeat", "true");

toast.setAttribute("duration", "extended");
::::::::::

function buildToast() {
    var tmpl = Windows.UI.Notifications.ToastTemplateType.toastText01
    var xml =
        Windows.UI.Notifications.ToastNotificationManager.getTemplateContent(tmpl);
    var toast = xml.selectSingleNode("/toast");

    toast.setAttribute("duration", "long");

    var audio = xml.createElement("audio");
    audio.setAttribute("src", "ms-winsoundevent:Notification.Looping.Alarm");

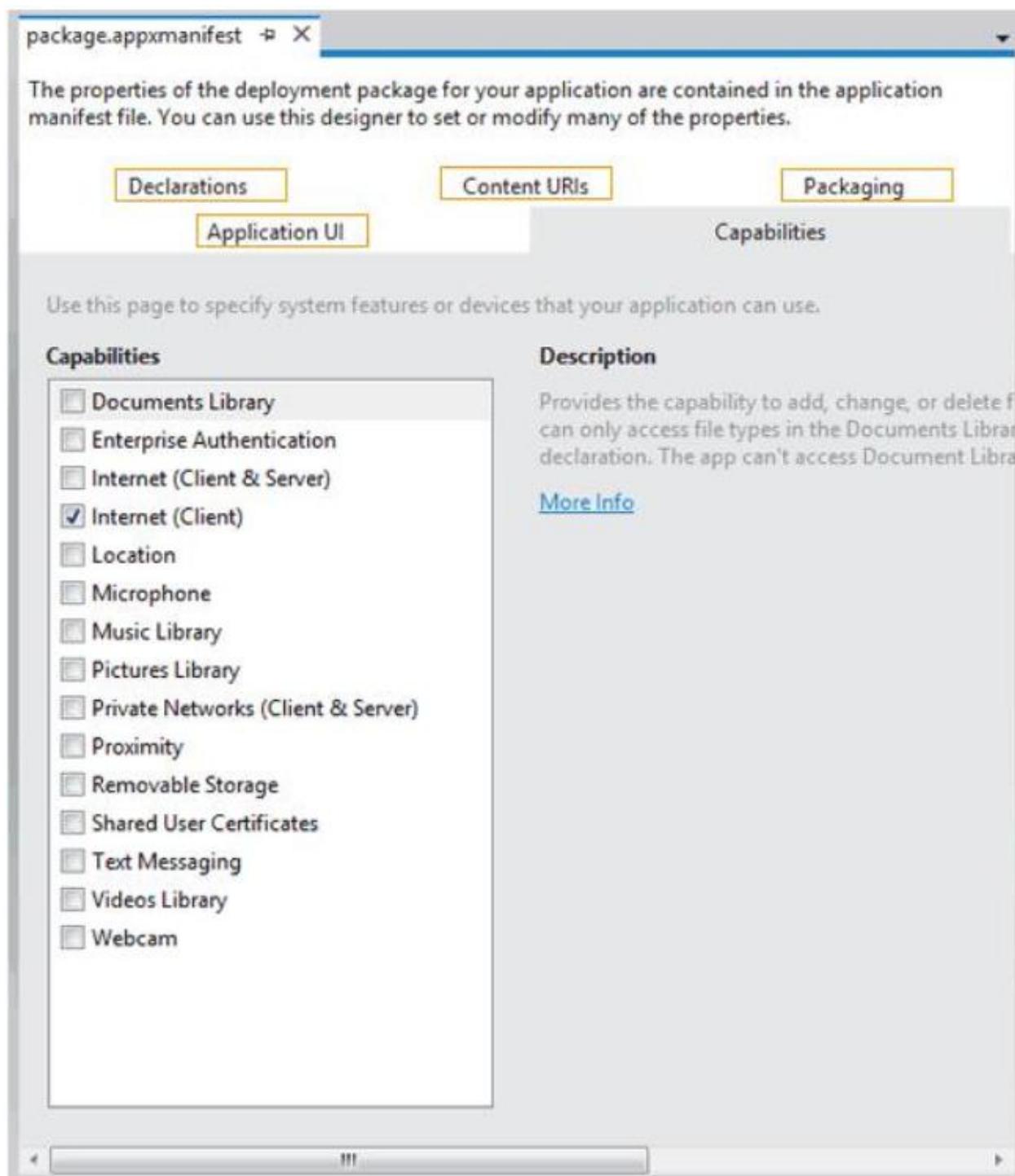
    audio.setAttribute("loop", "true");
    toast.appendChild(audio);

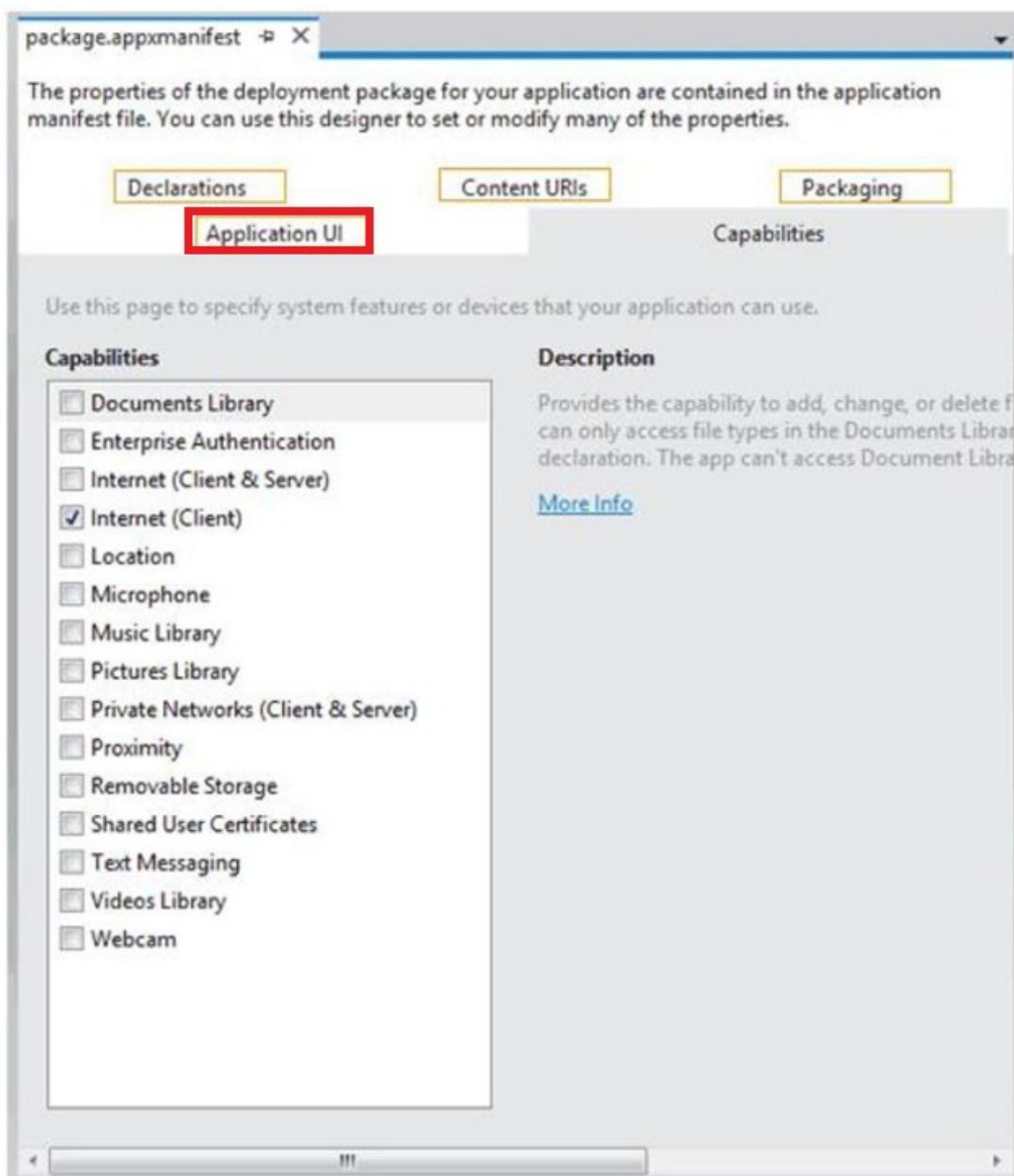
    return toast;
}
```

Question: 26

HOTSPOT

You are developing a Windows Store app. The app must use toast notifications to alert users when the app is operating in the background. You need configure the app to support toast notifications. Which tab in Visual Studio should you use? (To answer, select the appropriate tab in the answer area.)

**Answer:**



Question: 27

You are developing a Windows Store app by using HTML5 and JavaScript. You need to list all the keyboard, stylus, mouse, and touch input devices that are connected to the local computer system. Which Windows library should you use?

- A. Windows.UI.Input
- B. Windows.Media.Devices
- C. Windows.Devices.Enumeration
- D. Windows.Devices.Input

Answer: D

Question: 28

You are developing a Windows Store app by using HTML5 and JavaScript. The app will be used to monitor road traffic conditions.

The app must support live tile notifications, in accordance with the following requirements:

- Update the tile every five minutes when the app is in the running state.
- Update the tile once in the morning and once in the evening when the app is in the suspended state.
- Implement updates to tiles to optimize the power and resource consumption when the app is suspended or not otherwise running.

You need to implement delivery notifications to ensure that the requirements are met.

How should you use delivery notifications?

- A. Use the Periodic delivery notification when the app is running, and use the Scheduled delivery notification when the app is suspended.
- B. Use the Push delivery notification when the app is running, and use the Local delivery notification when the app is suspended.
- C. Use the Local delivery notification when the app is running, and use the Push delivery notification when the app is suspended.
- D. Use the Scheduled delivery notification when the app is running, and use the Push delivery notification when the app is suspended.

Answer: C

Question: 29

HOTSPOT

You are developing a Windows Store app by using HTML5 and JavaScript.

The app defines the following objects:

- inkManager is an object to process and manipulate the ink-related data from the stylus.
- inkContext is an object to hold the surface context.
- currentPenId is an object to restrict input processing to one stroke at a time.

The app must support the following requirements:

- Support the use of a stylus input device.
- Begin capturing input when the stylus first touches the screen.
- Render stylus movements in real time.

You need to ensure that the requirements are met. Which code segments should you use? (To answer, select the correct option from each drop-down list in the answer area.)

Work Area

```
function onStylusDown(evt) {  
    var current=evt.currentPoint;  
  
    inkManager.processPointerDown(current);  
    currentPenId=evt.pointerId;  
}  
function onStylusMove(evt) {  
    if(evt.pointerId==currentPenId) {  
        var current=evt.currentPoint;  
  
        inkManager.processPointerUpdate(current);  
    }  
}
```

Work Area

```
function onStylusDown(evt) {
    var current=evt.currentPoint;

    inkContext.beginPath();
    inkContext.stroke();
    inkContext.lineTo(current.rawPosition.x,current.rawPosition.y);
    inkManager.lineTo(current.rawPosition.x,current.rawPosition.y);
    inkManager.moveTo(current.x,current.y);
    inkContext.moveTo(current.x,current.y);
```

```
inkContext.beginPath();
inkContext.stroke();
inkContext.lineTo(current.rawPosition.x,current.rawPosition.y);
inkManager.lineTo(current.rawPosition.x,current.rawPosition.y);
inkManager.moveTo(current.x,current.y);
inkContext.moveTo(current.x,current.y);
```

```
    inkManager.processPointerDown(current);
    currentPenId=evt.pointerId;
}
function onStylusMove(evt) {
    if(evt.pointerId==currentPenId) {
        var current=evt.currentPoint;
```

```
        inkContext.beginPath();
        inkContext.stroke();
        inkContext.lineTo(current.rawPosition.x,current.rawPosition.y);
        inkManager.lineTo(current.rawPosition.x,current.rawPosition.y);
        inkManager.moveTo(current.x,current.y);
        inkContext.moveTo(current.x,current.y);
```

```
        inkContext.beginPath();
        inkContext.stroke();
        inkContext.lineTo(current.rawPosition.x,current.rawPosition.y);
        inkManager.lineTo(current.rawPosition.x,current.rawPosition.y);
        inkManager.moveTo(current.x,current.y);
        inkContext.moveTo(current.x,current.y);
```

```
    inkManager.processPointerUpdate(current);
}
```

Answer:

Work Area

```
function onStylusDown(evt) {  
    var current=evt.currentPoint;  
  
    inkContext.beginPath();  
    inkContext.stroke();  
    inkContext.lineTo(current.rawPosition.x,current.rawPosition.y);  
    inkManager.lineTo(current.rawPosition.x,current.rawPosition.y);  
    inkManager.moveTo(current.x,current.y);  
    inkContext.moveTo(current.x,current.y);
```

```
inkContext.beginPath();  
inkContext.stroke();  
inkContext.lineTo(current.rawPosition.x,current.rawPosition.y);  
inkManager.lineTo(current.rawPosition.x,current.rawPosition.y);  
inkManager.moveTo(current.x,current.y);  
inkContext.moveTo(current.x,current.y);  
  
inkManager.processPointerDown(current);  
currentPenId=evt.pointerId;  
}  
function onStylusMove(evt) {  
    if(evt.pointerId==currentPenId) {  
        var current=evt.currentPoint;
```

```
inkContext.beginPath();  
inkContext.stroke();  
inkContext.lineTo(current.rawPosition.x,current.rawPosition.y);  
inkManager.lineTo(current.rawPosition.x,current.rawPosition.y);  
inkManager.moveTo(current.x,current.y);  
inkContext.moveTo(current.x,current.y);
```

```
inkContext.beginPath();  
inkContext.stroke();  
inkContext.lineTo(current.rawPosition.x,current.rawPosition.y);  
inkManager.lineTo(current.rawPosition.x,current.rawPosition.y);  
inkManager.moveTo(current.x,current.y);  
inkContext.moveTo(current.x,current.y);  
  
inkManager.processPointerUpdate(current);  
}  
}
```

Question: 30

You are developing a Windows Store app. You need to ensure that unauthenticated users are redirected to the login screen when they attempt to navigate to secure pages. Which navigation member should you use?

- A. canGoBack
- B. onbeforenavigate
- C. canGoForward
- D. onnavigated

Answer: B

Question: 31

You are developing a Windows Store app. Users must be able to initiate searches by using the Search charm. The app must display the search text in a DIV element named `searchBox`. You need to add code to meet this requirement. Which code segment should you add?

A.

```
WinJS.Application.onsearch = function (event) {
    var searchDiv= document.getElementById("searchBox");
    searchDiv.innerText = "User Searching For: " + event.detail.queryText;
};
```

B.

```
WinJS.Application.onactivated = function (event) {
    if (event.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
        var searchDiv= document.getElementById("searchBox");
        searchDiv.innerText = "User Searching For: " + event.detail.queryText;
    }
};
```

C.

```
WinJS.Application.addEventListener("search", function (event) {
    if (event.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
        var searchDiv= document.getElementById("searchBox");
        searchDiv.innerText = "User Searching For: " + event.detail.queryText;
    }
});
```

D.

```
WinJS.Application.onactivated = function (event) {
    if (event.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
        var searchDiv = document.getElementById("searchBox");
        searchDiv.innerText = "User Searching For: " + event.detail.queryText;
    }
};
```

Answer: B

Question: 32

You are developing two Windows Store apps named CameraApp and PhotoAlbum. The apps must meet the following requirements:

- CameraApp must have access to images on the local computer on which CameraApp is running.
- PhotoAlbum must be able to access the images from CameraApp.

You need to configure the deployment package settings for both apps to ensure that the requirements are met. What should you do?

- A. Add the URI of CameraApp to the Content URIs list for PhotoAlbum, and add the URI of PhotoAlbum to the Content

URIs list for CameraApp.

- B. Add the Pictures Library setting to the list of capabilities for PhotoAlbum, and add the Share Target setting to the list of declarations for PhotoAlbum.
- C. Add the ShareTarget setting to the list of declarations for PhotoAlbum, and add the Pictures Library setting to the list of capabilities for CameraApp.
- D. Add the Pictures Library setting to the list of declarations for CameraApp, and add the Share Target setting to the list of capabilities for PhotoAtbum.

Answer: C

Question: 33

You are developing a Windows Store app. The app includes a handler for the datarequested event. A portion of the code for the event handler is shown in the following code segment:

```
01 function onDataRequested(e) {  
02   e.request.data.properties.title = "Order #12345";  
03   e.request.data.properties.description = "Track your order";  
04   var url = "http://www.fabrikam.com?Order=12345";  
05  
06 }
```

The app must meet the following requirements:

- The app must share an order tracking link with target apps.
- The app must share URI-type data only.

You need to ensure that the app meets the requirements. Which code segment should you insert at line 05?

A.

```
e.request.data.uri(url);
```

B.

```
e.request.data.properties.setText(url);
```

C.

```
var link = new Windows.Foundation.Uri(url);  
e.request.data.setUri(link);
```

D.

```
var link = new Windows.Foundation.Uri(url)  
e.request.data.properties.setText(url);  
e.request.setLink(link);
```

Answer: C

Question: 34

HOTSPOT

You are developing a Windows Store app. The app allows users to browse contacts from a social networking site. The app has the following requirements:

- The user must be able to select more than one contact at a time.
- The app must display all of the details for the selected contacts.

You need to ensure that the requirements are met. Which code segments should you use? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

picker.pickSingleContactAsync()
 picker.pickMultipleContactsAsync()
 Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
 Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;

```
function selectContacts() {
  var picker = Windows.ApplicationModel.Contacts.ContactPicker();
  picker.commitButtonText = "Select";
  picker.selectionMode = [REDACTED]
    .then(function (contacts) {
      ...
    });
  });
}
```

Answer:

picker.pickSingleContactAsync()
 Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;

```
function selectContacts() {
  var picker = Windows.ApplicationModel.Contacts.ContactPicker();
  picker.commitButtonText = "Select";
  picker.selectionMode = [REDACTED] Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
    picker.pickMultipleContactsAsync()
      .then(function (contacts) {
        ...
      });
  });
}
```

Question: 35

You are developing a Windows Store app. You need to ensure that a remote file is updated when the app is activated. Which code segment should you use? (To answer, select the correct option from the drop-down list in the answer area.)

Work Area

```
function activatedHandler(eventArg) {
    var activationKind =
        Windows.ApplicationModel.Activation.ActivationKind;
    if (eventArg.detail.kind == [ ] ) {
        ...
    }
}
```

Work Area

```
function activatedHandler(eventArg) {
    var activationKind =
        Windows.ApplicationModel.Activation.ActivationKind;
    if (eventArg.detail.kind == [ ] ) {
        ...
    }
}
```

activationKind.cachedFileUpdater
 activationKind.file
 activationKind.fileOpenPicker
 activationKind.fileSavePicker

Answer:**Work Area**

```
function activatedHandler(eventArg) {
    var activationKind =
        Windows.ApplicationModel.Activation.ActivationKind;
    if (eventArg.detail.kind == [ ] ) {
        ...
    }
}
```

activationKind.cachedFileUpdater
 activationKind.file
 activationKind.fileOpenPicker
 activationKind.fileSavePicker

Question: 36

You are developing a Windows Store app. You need to ensure that the app logs pages that are viewed by the user. Which navigation member should you use?

- A. onnavigated
- B. canGoForward
- C. canGoBack
- D. onbeforenavigate

Answer: A

Question: 37

HOTSPOT

You are developing a Windows Store app for purchasing school supplies. The app has the following storage requirements:

- Inventory data must be accessible to the app and over the Internet to external suppliers. Suppliers will access the data over HTTP by using OData.
- App storage for the high volume sales periods must be able to scale rapidly, but at the lowest possible cost.
- Color preferences for the user must be stored on the host device.

You need to choose the appropriate data access strategy for each requirement. Which data access strategies should you use? (To answer, select the correct option from each drop-down list in the answer area.)

Work Area

Seasonal sales order data

User preference data

Work Area

Seasonal sales order data

- Session storage
- Microsoft SQL Server database storage
- Windows Azure storage
- HTML5 local storage
- Sybase database storage

User preference data

- Session storage
- Microsoft SQL Server database storage
- Windows Azure storage
- HTML5 local storage
- Sybase database storage

Answer:

Work Area

Seasonal sales order data

Session storage
 Microsoft SQL Server database storage
Windows Azure storage
 HTML5 local storage
 Sybase database storage

User preference data

Session storage
 Microsoft SQL Server database storage
 Windows Azure storage
HTML5 local storage
 Sybase database storage

Question: 38

You are developing a Windows Store app. The app will format a paragraph of text to resemble the following image.

This is sample text. This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.

This is sample text. This is sample text. This is sample text.

The app must format the paragraph to meet the following requirements:

- The paragraph must be divided among three columns.
- Columns must be separated by vertical lines that are one pixel wide.

You need to ensure that the format of the paragraph meets the requirements. Which code segment should you add?

A.

```
p {
  column-width: auto 3;
  column-gap: 2em;
  column-rule: 1px solid #808080;
  padding: 2em;
}
```

B.

```
p {
    column-width: auto 3;
    column-gap: 2em;
    column-rule: 1em solid #808080;
    padding: 1px;
}
```

C.

```
p {
    columns: auto 3;
    column-gap: 2em;
    column-rule: 1px solid #808080;
    padding: 2em;
}
```

D.

```
p {
    columns: auto 3;
    column-gap: 2em;
    column-rule: 1em solid #808080;
    padding: 2em;
}
```

Answer: C

Question: 39

You are developing a Windows Store text editor app by using HTML5 and JavaScript. Users must be able to select text within the app and then cut the text. You need to enable the Cut feature. Which code segments should you use? (Each correct answer presents part of the solution. Choose all that apply.)

A.

```
var menu = new Windows.UI.Popups.PopupMenu();
menu.commands.append(new Windows.UI.Popups.UICommand("Cut", null, 1));
```

B.

```
function handleKeyPressUp(e) {
    var KeyID = e.keyCode;
    ...
}
document.oninput = handleKeyPressUp;
```

C.

```
var menu = new Windows.Graphics.UI.Popups();
menu.commands.append(new Windows.UI.Popups.UICommand("Cut", null, 1));
```

D.

```
var menu = new Windows.UI.Popups();
menu.commands.append(new Windows.UI.Popups.UICommand("Cut", null, 1));
```

E.

```
function handleKeyPressUp(e) {
    var KeyID = e.keyCode;
    ...
}
document.onkeyup = handleKeyPressUp;
```

F.

```
function handleKeyPressUp(e) {
    var KeyID = e.keyCode;
    ...
}
document.onkeyclick = handleKeyPressUp;
```

Answer: AB

Question: 40

DRAG DROP

You are developing a Windows Store app by using JavaScript. The app will be used to create video blogs. The app uses the device's internal camera. The app must meet the following requirements:

- Allow the user to record audio and video.
- Save files in the .mp4 file format.
- Store files in the user's Videos library.

You need to ensure that the app meets the requirements. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

```

Windows.Storage.KnownFolders.videosLibrary.createFileAsync("myBlog.mp4",
media.stopRecordAsync().then(function (result) { }, errorHandler);
Windows.Storage.KnownFolders.videosLibrary.createFileQuery(
media.MediaCapture.stopMediaCaptureSession().then(function (result) { }, errorHandler);
::::::::::
var media = new Windows.Media.Capture.MediaCapture();
var file;
function startRecording () {
    Windows.Storage.CreationCollisionOption.generateUniqueName).then (
        function (newFile) {
            file = newFile;
            media.startRecordToStorageFileAsync(profile, storageFile).then(
                function(result) {
                }, errorHandler);
        });
}
function endRecording () {
}
)

```

Answer:

```

Windows.Storage.KnownFolders.videosLibrary.createFileQuery(
media.MediaCapture.stopMediaCaptureSession().then(function (result) { }, errorHandler);
::::::::::
var media = new Windows.Media.Capture.MediaCapture();
var file;
function startRecording () {
    Windows.Storage.KnownFolders.videosLibrary.createFileAsync("myBlog.mp4",
        Windows.Storage.CreationCollisionOption.generateUniqueName).then (
            function (newFile) {
                file = newFile;
                media.startRecordToStorageFileAsync(profile, storageFile).then(
                    function(result) {
                    }, errorHandler);
            });
}
function endRecording () {
    media.stopRecordAsync().then(function (result) { }, errorHandler);
}

```

Question: 41**DRAG DROP**

You develop a Windows Store app that uses several new user interface features. You need to declare capabilities in the application manifest so that you can submit the app to the Windows Store. How should you complete the relevant markup? (To answer, drag the appropriate markup segments to the correct locations in the answer area. 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.)

`Name="internetClient" />`
`Name="bookmarksLibrary" />`
`Name="networkConnectivity" />`
`Name="webcam" />`
`Name="mediaStream" />`

```
<Capabilities>
  <Capability Name="picturesLibrary" />
  <Capability Name="musicLibrary" />
  <Capability Name="internetClient" />
  <DeviceCapability Name="webcam" />
  <DeviceCapability Name="proximity" />
  <DeviceCapability Name="location" />
</Capabilities>
```

Answer:

`Name="bookmarksLibrary" />`
`Name="networkConnectivity" />`
`Name="mediaStream" />`

```
<Capabilities>
  <Capability Name="picturesLibrary" />
  <Capability Name="musicLibrary" />
  <Capability Name="internetClient" />
  <DeviceCapability Name="webcam" />
  <DeviceCapability Name="proximity" />
  <DeviceCapability Name="location" />
</Capabilities>
```

Question: 42**DRAG DROP**

You develop a Windows Store app that allows users to record audio notes. You need to store the notes in the device's Music library. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

```
.CreateFileAsync("AudioRecording.m4a");  
  
.CreateM4a(Windows.Media.MediaProperties.AudioEncodingQuality.Auto);  
  
.CreateMp4(Windows.Media.MediaProperties.EncodingQuality.Auto);  
  
.getFileAsync("AudioRecording.m4a");  
  
.CreateM4a(Windows.Media.MediaProperties.SampleRate.Auto);
```

```
:::::::::::  
  
var recording;  
function recordNote () {  
    var recordStorageFile =  
        Windows.Storage.KnownFolders.musicLibrary  
  
    var recordProfile =  
        Windows.Media.MediaProperties.MediaEncodingProfile  
  
    recording = true;  
    btnAudio.Content = "Stop Recording";  
    mediaCaptureMgr.startRecordToStorageFileAsync(  
        encodingProfile, storageFile);  
}  
}
```

Answer:

```

.CreateMp4(Windows.Media.MediaProperties.EncodingQuality.Auto);

.getFileAsync("AudioRecording.m4a");

.CreateM4a(Windows.Media.MediaProperties.SampleRate.Auto);

```

```

var recording;
function recordNote () {
    var recordStorageFile =
        Windows.Storage.KnownFolders.musicLibrary
.CreateFileAsync("AudioRecording.m4a");

    var recordProfile =
        Windows.Media.MediaProperties.MediaEncodingProfile
.CreateM4a(Windows.Media.MediaProperties.AudioEncodingQuality.Auto);

    recording = true;
    btnAudio.Content = "Stop Recording";
    mediaCaptureMgr.startRecordToStorageFileAsync(
        encodingProfile, storageFile);
}

```

Question: 43

You are developing a Windows Store app by using HTML5 and JavaScript. The app has HEADER, NAV, and SECTION elements. The SECTION element displays a list of records. The app will allow users to sort records multiple times. The app must meet the following requirements:

- Each time the user performs a sort, replace the content in the SECTION element with the sorted records.
- Animate the updated content by sliding the sorted records into the SECTION element.

You need to use the WinJS library to apply the animation to the SECTION element. Which function should you use?

- A. enterPage()
- B. enterContent()
- C. createExpandAnimation()
- D. createPeekAnimation()

Answer: B

Question: 44

HOTSPOT

You are developing a Windows Store app that will include a <div> element. You are applying animation to the app. The animation must provide visual feedback that the <div> element has been tapped or clicked. You need to implement the animation by using a JavaScript library. How should you complete the relevant code? (To answer, select the correct code segment from each drop-down list in the answer area.)

Work Area

```
var myLibrary = WinJS.  
...  
function onUserSelect(e) {  
    myLibrary.  
}  
}
```

Work Area

```
var myLibrary = WinJS.  
...  
function onUserSelect(e) {  
    myLibrary.  
}  
keyPress(e.src.Element);  
onClick(e.src.Element);  
pointerDown(e.src.Element);  
reveal(e.src.Element);
```

Answer:

Work Area

```

var myLibrary = WinJS.Animation;
                    Drawing:JI.Animation;
                    UI.Drawing;
...
function onUserSelect(e) {
    myLibrary.keyPress(e.src.Element);
    onClick(e.src.Element);
    pointerDown(e.src.Element);
    reveal(e.src.Element);
}

```

Question: 45

You are developing a custom tooltip control that inherits from an existing WinJS tooltip control. The custom control overrides the open () method of the base control to extend the functionality. The following code segment depicts the structure of the method override.

```

Open: function (type) {
    • • •
}

```

You need to ensure that the base method executes at the start of the override. Which code segment should you use to call the base method?

- A. this.base.open ();
- B. this.super.open ();
- C. base.open();
- D. this.prototype.open();

Answer: B**Question: 46**

In the following code segment, three functions return WinJS.Promise objects.

```
function op1() {
    return new WinJS.Promise(function () {
        ...
    });
}

function op2() {
    return new WinJS.Promise(function () {
        ...
    });
}

function sum() {
    return new WinJS.Promise(function () {
        ...
    });
}
```

You need to chain the promise operations to optimize error handling. Which code segment should you use?

A.

```
op1()
    .then(function() { return op2(); })
    .done(function() { sum(); });
```

B.

```
op1()
    .then(function() { return op2() })
    .then(function() { sum(); })
});
```

C.

```
op1()
    .done(function() { return op2(); })
    .then(function() { sum(); });
```

D.

```

op1()

.done(function() { return op2(); })

.done(function() { sum(); });

```

Answer: A

Question: 47**DRAG DROP**

You develop a Windows Store app by using JavaScript. The app displays a list of video controls. The user can add video controls to the list. You need to animate the video control list when the user adds a control to the list. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

```

var addToList = WinJS.UI.Animation.createAddToListAnimation
addToList.execute();
var addToList = WinJS.UI.Animation.AddToListAnimation
list.refresh();
addToList.beginAnimation();

```

```

function addToList() {
    var affectedItems = document.querySelectorAll(".listItem");
    var newItem = document.createElement("video");
    newItem.className = "listItem";

```

(newItem, affectedItems);
 list.insertBefore(newItem, list.firstChild);

}

Answer:

```

var addToList = WinJS.UI.Animation.createAddToListAnimation
list.refresh();
addToList.beginAnimation();
function addToList() {
    var affectedItems = document.querySelectorAll(".listItem");
    var newItem = document.createElement("video");
    newItem.className = "listItem";
    var addToList = WinJS.UI.Animation.AddToListAnimation
        (newItem, affectedItems);
    list.insertBefore(newItem, list.firstChild);
    addToList.execute();
}

```

Question: 48

You are creating a custom control named Contoso by using the following code segment. (Line numbers are included for reference only.)

```

01
02     Contoso.UI = {
03         showMe: function () { ... }
04     }

```

You need to define the namespace. Which code segment should you insert at line 01?

- A. WinJS.Namespace.define ("Contoso");
- B. WinJS.Namespace.defineWithParent ("Contoso");
- C. WinJS.Class.define ("Contoso");
- D. WinJS.Class.defineWithParent ("Contoso");

Answer: A

Question: 49**HOTSPOT**

You develop a Windows Store app by using JavaScript. The app contains content that must be translated as the screen loads. You need to ensure that only specific content is translated. How should you complete the relevant code? (To

answer, select the appropriate code segment from the drop-down list in the answer area.)

Work Area

```
var segment;

var page = WinJS.UI.Pages.define("/html/localized.html", {
    ready: function (element, options) {
        segment = document.getElementById('content');
        
    }
});
```

Work Area

```
var segment;

var page = WinJS.UI.Pages.define("/html/localized.html", {
    ready: function (element, options) {
        segment = document.getElementById('content');
        
        
        
        
    }
});
```

Answer:

Work Area

```
var segment;

var page = WinJS.UI.Pages.define("/html/localized.html", {
    ready: function (element, options) {
        segment = document.getElementById('content');
        
        
        
        
    }
});
```

Question: 50

DRAG DROP

You are developing a Windows Store app by using JavaScript. The app will be used in multiple geographic regions. You

need to ensure that the app displays dates in the region-specific full date format. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

Windows.Globalization.DateTimeFormatting
Windows.Globalization.Calendar
Windows.Globalization.GeographicRegion
myDateFormatter.format(myDate)
myDateFormatter.format(myDate.getDate())
myDateFormatter.calendar(myDate(utc.now()))

```
var dateFormatting = [REDACTED]  
var myDateFormatter = new dateFormatting.DateTimeFormatter(  
    dateFormatting.YearFormat.full,  
    dateFormatting.MonthFormat.full,  
    dateFormatting.DayFormat.default,  
    dateFormatting.DayOfWeekFormat.full);  
var myDate = new Date();  
document.getElementById('output').innerText  
    = [REDACTED]
```

Answer:

Windows.Globalization.Calendar

Windows.Globalization.GeographicRegion

myDateFormatter.format(myDate.getDate())

myDateFormatter.calendar(myDate(utc.now()))

.....

```
var dateFormatting = Windows.Globalization.DateTimeFormatting  
var myDateFormatter = new dateFormatting.DateTimeFormatter(  
    dateFormatting.YearFormat.full,  
    dateFormatting.MonthFormat.full,  
    dateFormatting.DayFormat.default,  
    dateFormatting.DayOfWeekFormat.full);  
var myDate = new Date();  
document.getElementById('output').innerText  
= myDateFormatter.format(myDate)
```

Question: 51

HOTSPOT

You are developing a Windows Store app for an airline. The app will provide current flight status information. The app will display the flight status on the lock screen if the user grants permission. You have the following requirements:

- Display a dialog box that requests access to the lock screen.
- Display a message that indicates whether the user has granted access to the lock screen.

You need to ensure that the requirements are met. How should you complete the relevant code? (To answer, select the correct code segment from each drop-down list in the answer area.)

Work Area

```
function requestAccess() {  
    var Background = Windows.ApplicationModel.[ ].BackgroundExecutionManager.[ ].  
    .then(function (result) {  
        switch (result) {  
            case Background.[ ].denied:  
                myapp.displayStatus("denied access");  
                break;  
  
            case Background.[ ].allowedWithRealTimeConnectivity:  
                myapp.displayStatus("allowed access");  
                break;  
  
            ...  
        }  
    })  
}
```

Work Area

```
function requestAccess() {  
var Background = Windows.ApplicationModel.  
    Activation;  
    Background;  
    PackageID;  
  
Background.BackgroundExecutionManager.  
    bind()  
    getAccessStatus()  
    requestAccessAsync()  
  
.then(function (result) {  
    switch (result) {  
        case Background.  
            .denied:  
                BackgroundAccessStatus  
                BackgroundTaskBuilder  
                PushNotificationTrigger  
  
                myapp.displayStatus("denied access");  
                break;  
  
        case Background.  
            .allowedWithRealTimeConnectivity:  
                myapp.displayStatus("allowed access");  
                break;  
  
    ...  
})
```

Answer:

Work Area

```

function requestAccess() {
    var Background = Windows.ApplicationModel.
        Activation;
Background;
PackageID;

Background.BackgroundExecutionManager.
    bind()
getAccessStatus()
requestAccessAsync()

.then(function (result) {
    switch (result) {
        case Background.
            BackgroundAccessStatus
BackgroundTaskBuilder
PushNotificationTrigger.denied:
            myapp.displayStatus("denied access");
            break;

        case Background.
            BackgroundAccessStatus
BackgroundTaskBuilder
PushNotificationTrigger.allowedWithRealTimeConnectivity:
            myapp.displayStatus("allowed access");
            break;
    }
})
}

```

Question: 52

DRAG DROP

You are developing a Windows Store app by using JavaScript. The app will call a WinMD component to convert temperature. The component exposes the following two members:

- A static variable named Fahrenheit
- A public method named GetInCelsius() that accepts an integer

You need to ensure that the app will display the temperature in Celsius and Fahrenheit. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

getInCelsius

GetInCelsius

Fahrenheit

fahrenheit

Fahrenheit
(input)

```
var obj = new Converter.Temperature();
var doc = document.getElementById('output');
doc.innerHTML = "Celsius:" + obj. (70);
doc.innerHTML += "<br/>";
doc.innerHTML += "You entered: "
+ Converter.Temperature. ;
```

Answer:

GetInCelsius

Fahrenheit

Fahrenheit
(input)

```
var obj = new Converter.Temperature();
var doc = document.getElementById('output');
doc.innerHTML = "Celsius:" + obj. getInCelsius (70);
doc.innerHTML += "<br/>";
doc.innerHTML += "You entered: "
+ Converter.Temperature. fahrenheit ;
```

Question: 53**DRAG DROP**

You are writing a Windows Store app by using JavaScript. You need to authenticate a cloud server as a source for Windows Push Notification Services (WNS). 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.)

Create the HTTPS authentication request.

Register the app with the Dashboard.

Obtain the identity values and credentials for the app.

Create a code-signing certificate.

Answer:

Obtain the identity values and credentials for the app.

Register the app with the Dashboard.

Create a code-signing certificate.

Create the HTTPS authentication request.

Question: 54

You are developing a Window Store app by using JavaScript. The app will allow users to print documents by using a local printer. The following code segment registers the print contract:

```
01 var printManager = Windows.Graphics.Printing.PrintManager;
02
03 printManager.onprinttaskrequested = onPrintTaskRequested;
The following code segment handles the onprinttaskrequested event:
04 function onPrintTaskRequested(printEvent) {
05
06 }
```

You need to ensure that the app uses the Devices charm to access printers. Which code segments should you insert at lines 02 and 05?

A.

Insert the following code segment at line 02:

```
printManager = Windows.Graphics.Printing.PrintManager.getForCurrentView();
```

Insert the following code segment at line 05:

```
printEvent.request.createPrintTask("Print document", function (args) {
    args.setSource(MSApp.getHtmlPrintDocumentSource(document));
});
```

B.

Insert the following code segment at line 02:

```
printManager = Windows.Graphics.Printing.getForCurrentView();
```

Insert the following code segment at line 05:

```
printEvent.request.createPrintTask("Print document", function (args) {
    args.setSource(MSApp.getHtmlPrintDocumentSource());
});
```

C.

Insert the following code segment at line 02:

```
printManager = Windows.Graphics.Printing.PrintManager;
```

Insert the following code segment at line 05:

```
Windows.Graphics.Printing.PrintManager.showPrintUIAsync();
```

D.

Insert the following code segment at line 02:

```
Windows.Graphics.Printing.PrintManager.showPrintUIAsync();
```

Insert the following code segment at line 05:

```
printManager = Windows.Graphics.Printing.PrintManager.getForCurrentView();
```

Answer: A

Question: 55

DRAG DROP

You are developing a Windows Store app by using JavaScript. The app will be used to print documents. You need to ensure that the app allows the user to specify the number of copies to print. 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.)

Create a **print task** object by using the **print task request** object.

Create and register for a print contract.

Append the option to display the number of copies in the **print task** object, and then clear all displayed options.

Clear all displayed options in the **print task** object, and then append the option to set the number of copies.

Answer:

Create a **print task** object by using the **print task request** object.

Create and register for a print contract.

Clear all displayed options in the **print task** object, and then append the option to set the number of copies.

Append the option to display the number of copies in the **print task** object, and then clear all displayed options.

Question: 56

You are developing a Windows Store app that uses Windows Push Notification Services (WNS). The app includes the following code:

```
01 var notifications = Windows.UI.Notifications;
02 var startDate = new Date();
03 var polledUrl = "http://contoso.cloudapp.net/";
04 var uri = new Windows.Foundation.Uri(polledUrl);
05
```

You need to initiate polling. Which code segment should you insert at line 05?

A.

```
var recurrence = 1800;
notifications.TileUpdateManager.createTileUpdaterForApplication(uri, startDate, recurrence);
```

B.

```
var recurrence = notifications.PeriodicUpdateRecurrence.halfHour;
notifications.TileUpdateManager.createTileUpdaterForApplication().startPeriodicUpdate(uri, startDate,
recurrence);
```

C.

```
var recurrence = notifications.PeriodicUpdateRecurrence.halfHour;
notifications.TileUpdateManager.createTileUpdaterForApplication().Update(uri, startDate, recurrence);
```

D.

```
var recurrence = 1800;
notifications.TileUpdateManager.startPeriodicUpdate(uri, startDate, recurrence);
```

Answer: B

Question: 57

You are developing a Windows Store app by using JavaScript. The app will use a custom print template for printing documents. The template will be provided in a file named customTemplate.htm.

The file will be deployed as part of the app package.

The code segment below references two objects:

- **printManager** is an object of type **Windows.Graphics.Printing.PrintManager**.
- **printEvent** is an object of type **Windows.Graphics.Printing.PrintTaskRequest**.

```
01 printManager.onprinttaskrequested = onPrintTaskRequested;
02 ...
03 function onPrintTaskRequested(printEvent) {
04 var printTask = printEvent.request.createPrintTask("app printing", function (args) {
05
06});
```

You need to ensure that the app displays the custom print template while printing the documents. Which code

segment should you insert at line 05?

- A. args.setSource(MSApp.getPrintDocumentSource(document, "customTemplate.htm"));
- B. args.setSource(MSApp.getPrintDocumentSource(document, "ms-appx://printTemplates/customTemplate.htm"));
- C. args.setSource(MSApp.getHtmlPrintDocumentSource(document, "ms-appdata:///customTemplate.htm"));
- D. args.setSource(MSApp.getHtmlPrintDocumentSource(document, "ms-appx:///customTemplate.htm"));

Answer: D

Question: 58

You are creating a Windows Store app by using JavaScript. The app includes the following code segment:

```
01 function openChannel() {
02     var channel;
03     var chanOpt = Windows.Networking.PushNotifications
04         .PushNotificationChannelManager
05
06     return chanOpt.then (function (chan) {
07         channel = chan;
08     },
09     errorHandler)
10 }
```

You need to ensure that the app can receive push notifications from a calling app. Which code segment should you insert at line 05?

- A. .createPushNotificationChannelForSecondaryTileAsync();
- B. .createPuahNotificatcnChannelForApplicationAsync(id);
- C. .createPushNotiflcacionChannelForApplicationAsync();
- D. .createPushNotif icationChannelForSecondaryTileAsync (id);

Answer: C

Question: 59

You are debugging a Windows Store app that another developer created by using HTML5 and JavaScript. The default.js file contains the following code segment:

```
var playToManager = Windows.Media.PlayTo.PlayToManager.getForCurrentView();
playToManager.addEventListener("sourcerequested", playToSrcRequestHandler, false);

function playToSrcRequestHandler(eventIn) {
    eventIn.sourceRequest.setSource(video1.msPlayToSource);
    eventIn.sourceRequest.play();
}
```

The app has a screen that plays video files. The HTML5 video control on the screen has an ID of video1. You need to identify the effect of firing the source requested event. What will occur when the event fires?

- A. The app will prompt the user to select a local video file for viewing in the video1 control.
- B. The video will play in Windows Media Player on the host device.
- C. The application will prompt the user to select a target device for streaming the video by using the video1 control.

- D. The selected video file will play in the video1 control on the app screen.

Answer: D

Question: 60

You are developing a Windows Store app by using JavaScript. The app persists a list of restaurants in the app's settings. The restaurant list is identified by a key of city. The app must allow users to remove their restaurant lists from the app's settings. The following function call removes the city setting:

```
deleteListSetting("city");
```

You need to remove only city from the settings storage without disrupting other settings.

Which code segment should you use?

A.

```
function deleteListSetting(setting) {  
    var localSettings = Windows.Storage.ApplicationData.current.sessionStorage;  
    localSettings.delete(setting);  
}
```

B.

```
function deleteListSetting(setting) {  
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;  
    localSettings.values.clear(setting);  
}
```

C.

```
function deleteListSetting(setting) {  
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;  
    localSettings.values.remove(setting);  
}
```

D.

```
function deleteListSetting(setting) {  
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;  
    localSettings.values.delete(setting);  
}
```

Answer: C

Question: 61

You are developing a Windows Store app by using JavaScript. The app will allow users to customize various features. The customizations will be persisted by using the setAppSetting function.

You need to persist the customizations.

Which code segment should you use?

A.

```
function setAppSetting(setting, inputValue) {
    var localSettings = Windows.Storage.ApplicationData.current.sessionStorage;
    localSettings.value[setting] = inputValue;
    var value = localSettings.values[setting];
    ...
}

B.

function setAppSetting(setting, inputValue) {
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;
    localSettings.values[setting] = inputValue;
    var value = localSettings.values[setting];
    ...
}

C.

function setAppSetting(setting, inputValue) {
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;
    localSettings[setting] = inputValue;
    var value = localSettings[setting];
    ...
}

D.

function setAppSetting(setting, inputValue) {
    var localSettings = Windows.Storage.ApplicationData.current.sessionStorage;
    localSettings.get[setting] = inputValue;
    var value = localSettings.get[setting];
    ...
}
```

Answer: B

Question: 62

You are developing two Windows Store style apps by using JavaScript. A Source app will store sensitive customer information. A Target app will retrieve the stored information for validation and further processing. The Source app must secure data by using a private-public key pair. Only the Target app must be able to consume data that has been secured by the Source app. You need to ensure that the security of the data is not compromised. What should you do?

- A. Encrypt and decrypt data by using an asymmetric algorithm.
- B. Encrypt and decrypt data by using a symmetric algorithm.
- C. Encrypt data by using an asymmetric algorithm. Decrypt data by using a symmetric algorithm.
- D. Encode data to and decode data from a Base64 string.

Answer: A

Question: 63

DRAG DROP

You are developing a Windows Store app by using JavaScript. The app will use the fileStream object to write text to a file. You need to write the text to the file and ensure that the file is available to other apps. Which five 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.)

Flush data in the DataWriter object.
Close the fileStream object.
Create a DataWriter object to write text content.
Clone the fileStream object into the streamContent object.
Commit data in the DataWriter object.
Flush data in the streamContent object.
Create a sequential output stream object named streamContent from the fileStream object.

Answer:

Commit data in the DataWriter object.
Flush data in the streamContent object.
Create a sequential output stream object named streamContent from the fileStream object.
Flush data in the DataWriter object.
Close the fileStream object.
Create a DataWriter object to write text content.
Clone the fileStream object into the streamContent object.

Question: 64**DRAG DROP**

You are developing a Windows Store style app by using JavaScript. The app will send and receive encoded information and will display the encoded information to the user in a decrypted and recognizable state. You need to appropriately decrypt the encoded information. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

```
.decodeFromBase64String(stringToDecrypt);  
.decrypt(symmetricKey, inputDataBuffer, ivBuffer);  
.decrypt(stringToDecrypt, algNameString);  
.extractKey(keyMaterial, inputDataBuffer, stringToDecrypt);  
.toString(stringToDecrypt);  
.....
```

```
function decryptString(keyMaterial, stringToDecrypt  
,algNameString, keysize, ivBuffer) {  
var result;  
var inputDataBuffer = Windows.Security  
 .Cryptography.CryptographicBuffer  
 ...  
result = Windows.Security.Cryptography.Core.CryptographicEngine  
 ...  
return result;  
}
```

Answer:

```

.decrypt(stringToDecrypt, algNameString);

.extractKey(keyMaterial, inputDataBuffer, stringToDecrypt);

.toString(stringToDecrypt);

::::::::::
}

function decryptString(keyMaterial, stringToDecrypt
    ,algNameString, keysize, ivBuffer) {
    var result;
    var inputDataBuffer = Windows.Security
        .Cryptography.CryptographicBuffer
        .decodeFromBase64String(stringToDecrypt);
    ...
    result = Windows.Security.Cryptography.Core.CryptographicEngine
        .decrypt(symmetricKey, inputDataBuffer, ivBuffer);
    return result;
}

```

Question: 65

You are developing a Windows Store app. You configure the app to allow a free trial period. You need to prompt the user to purchase the full version of the app when the trial period expires. What should you do?

- A. Call the getAppReceiptAsync() method of the Windows.ApplicationModel.Store.CurrentApp object.
- B. Call the getProductReceiptAsync() method of the Windows.ApplicationModel.Store.CurrentApp object and provide the app's product ID as an argument.
- C. Call the requestProductPurchaseAsync() method of the Windows.ApplicationModel.Store.CurrentApp object and provide the app's product ID as an argument.
- D. Call the requestAppPurchaseAsync() method of the Windows.ApplicationModel.Store.CurrentApp object.

Answer: B**Question: 66****HOTSPOT**

You are designing a testing strategy for a Windows Store app by using HTML5, JavaScript, and CSS3. You need to use testing strategies that validate for the best performance. Which testing strategies should you select? (To answer, select the correct action from each drop-down list in the answer area.)

Work Area

Result	Action
Reduce blocking of user interface threads	<input type="button" value="▼"/>
Optimize bytecode caching performance	<input type="button" value="▼"/>

Work Area

Result	Action
Reduce blocking of user interface threads	<input type="button" value="▼"/> Install on multiple machines Use synchronous API calls Use asynchronous API calls Use Unmanaged code calls
Optimize bytecode caching performance	<input type="button" value="▼"/> Call a server-side object Reference an external JavaScript file Reference inline JavaScript code Use an unmanaged code block

Answer:

Work Area

Result	Action
Reduce blocking of user interface threads	<input type="button" value="▼"/> Install on multiple machines Use synchronous API calls Use asynchronous API calls Use Unmanaged code calls
Optimize bytecode caching performance	<input type="button" value="▼"/> Call a server-side object Reference an external JavaScript file Reference inline JavaScript code Use an unmanaged code block

Question: 67

HOTSPOT

You are preparing four Windows Store apps for deployment. You test the apps by using the Windows App Certification Kit. The results are as shown in the following table.

App name	Time to launch (in seconds)	Time to suspend (in seconds)
App1	5	2
App2	4	3
App3	4	1
App4	6	2

You need to identify which apps passed the performance test. What is the performance test result for each app? (To answer, choose the correct test result from each drop-down list in the answer area.)

Work Area

App Name	Result
App1	<input type="button" value="▼"/>
App2	<input type="button" value="▼"/>
App3	<input type="button" value="▼"/>
App4	<input type="button" value="▼"/>

Work Area

App Name	Result
App1	<input type="button" value="▼"/> PASS FAIL
App2	<input type="button" value="▼"/> PASS FAIL
App3	<input type="button" value="▼"/> PASS FAIL
App4	<input type="button" value="▼"/> PASS FAIL

Answer:

Work Area

App Name	Result
App1	PASS FAIL
App2	PASS FAIL
App3	PASS FAIL
App4	PASS FAIL

Question: 68

DRAG DROP

You are preparing a Windows Store app that will be distributed through the Windows Store. You install the app on a test computer that runs Windows 8. You must run functional test cases by using the Windows App Certification Kit. You need to test the app before you deploy it to the Windows Store. Which four 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.)

- Provide the fully qualified name of the package.
- Launch the Windows App Certification Kit by using the program shortcut.
- Launch appcertkit.exe from the Windows App Certification Kit directory by running it from a command prompt.
- Select the functional test case or cases to execute.
- Begin the validation process and save the test results to a file.
- Install the Windows 8 Software Development Kit (SDK) on the test computer.
- Select the installed Windows Store app.

Answer:

Provide the fully qualified name of the package.

Launch appcertkit.exe from the Windows App Certification Kit directory by running it from a command prompt.

Select the installed Windows Store app.

Select the functional test case or cases to execute.

Install the Windows 8 Software Development Kit (SDK) on the test computer.

Launch the Windows App Certification Kit by using the program shortcut.

Begin the validation process and save the test results to a file.

Question: 69

DRAG DROP

You are designing a testing strategy for a Windows Store app by using HTML5, JavaScript, and CSS3. You need to use testing strategies that validate for the best performance. Which testing strategies should you select? (To answer, drag the appropriate actions to the correct locations in the answer area. Each action 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.)

Link the CSS at the top of the page with the JavaScript at the bottom of the page.

Link the CSS at the bottom of the page with the JavaScript at the top of the page.

Use synchronous API calls.

Use asynchronous API calls.

Reference an external JavaScript file.

Reference inline JavaScript code.

Result	Action
Reduce blocking of user interface threads	
Optimize bytecode caching performance	

Answer:

Link the CSS at the top of the page with the JavaScript at the bottom of the page.

Use synchronous API calls.

Use asynchronous API calls.

Reference inline JavaScript code.

Result	Action
Reduce blocking of user interface threads	Link the CSS at the bottom of the page with the JavaScript at the top of the page.
Optimize bytecode caching performance	Reference an external JavaScript file.

Question: 70

DRAG DROP

You are developing a Windows Store app for an airline. The app will provide current flight status information. The app will display the flight status on the lock screen if the user grants permission. You have the following requirements:

- Display a dialog box that requests access to the lock screen.
- Display a message that indicates whether the user has granted access to the lock screen.

You need to ensure that the requirements are met. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. 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.)

Activation;
Background;
PackageID;
bind()
getAccessStatus()
requestAccessAsync()
BackgroundAccessStatus
BackgroundTaskBuilder

```
function requestAccess() {
    var Background = Windows.ApplicationModel. [REDACTED]
    Background.BackgroundExecutionManager. [REDACTED]
        .then(function (result) {
            switch (result) {
                case Background. [REDACTED] .denied:
                    myapp.displayStatus("denied access");
                    break;
                case Background. [REDACTED] .allowedWithRealTimeConnectivity:
                    myapp.displayStatus("allowed access");
                    break;
                ...
            }
        })
}
```

Answer:

```

Activation;
Background;
PackageID;
bind();
getAccessStatus();

BackgroundAccessStatus
BackgroundTaskBuilder

```

```

function requestAccess() {
    var Background = Windows.ApplicationModel.Background;
    Background.BackgroundExecutionManager.requestAccessAsync()
        .then(function (result) {
            switch (result) {
                case Background.BackgroundAccessStatus.denied:
                    myapp.displayStatus("denied access");
                    break;
                case Background.BackgroundAccessStatus.allowedWithRealTimeConnectivity:
                    myapp.displayStatus("allowed access");
                    break;
                ...
            }
        })
}

```

Question: 71**HOTSPOT**

You are developing a Windows Store app by using JavaScript. The app will call a WinMD component to convert temperature. The component exposes the following two members:

- A static variable named Fahrenheit
- A public method named GetInCelsius() that accepts an integer

You need to ensure that the app will display the temperature in Celsius and Fahrenheit. How should you complete the relevant code? (To answer, select the correct code segment from each drop-down list in the answer area.)

Work Area

```

var obj = new Converter.Temperature();
var doc = document.getElementById('output');
doc.innerHTML = "Celsius:" + obj. (70);
doc.innerHTML += "<br/>";
doc.innerHTML += "You entered: "
    + Converter.Temperature. ;

```

Work Area

```

var obj = new Converter.Temperature();
var doc = document.getElementById('output');
doc.innerHTML = "Celsius:" + obj.(70);

    fahrenheit  

    Fahrenheit  

    Fahrenheit(input)  

    getInCelsius  

    GetInCelsius

doc.innerHTML += "<br/>";
doc.innerHTML += "You entered: "
+ Converter.Temperature.(70);;

    fahrenheit  

    Fahrenheit  

    Fahrenheit(input)  

    getInCelsius  

    GetInCelsius


```

Answer:

Work Area

```

var obj = new Converter.Temperature();
var doc = document.getElementById('output');
doc.innerHTML = "Celsius:" + obj.(70);

    fahrenheit  

    Fahrenheit  

    Fahrenheit(input)  

getInCelsius  

    GetInCelsius

doc.innerHTML += "<br/>";
doc.innerHTML += "You entered: "
+ Converter.Temperature.(70);;

fahrenheit  

    Fahrenheit  

    Fahrenheit(input)  

    getInCelsius  

    GetInCelsius


```

Question: 72

HOTSPOT

You are developing a Windows Store style app by using JavaScript. The app will send and receive encoded information and will display the encoded information to the user in a decrypted and recognizable state. You need to appropriately

decrypt the encoded information.

How should you complete the relevant code? (To answer, select the correct code segment from each drop-down list in the answer area.)

Work Area

```
function decryptString(keyMaterial, stringToDecrypt
    ,algNameString, keysize, ivBuffer) {
    var result;
    var inputDataBuffer = Windows.Security
        .Cryptography.CryptographicBuffer
    ...
    result = Windows.Security.Cryptography.Core.CryptographicEngine
    ...
    return result;
}
```

Work Area

```
function decryptString(keyMaterial, stringToDecrypt
    ,algNameString, keysize, ivBuffer) {
    var result;
    var inputDataBuffer = Windows.Security
        .Cryptography.CryptographicBuffer
    ...
    .decodeFromBase64String(stringToDecrypt);
    .decrypt(symmetricKey, inputDataBuffer, ivBuffer);
    .decrypt(stringToDecrypt, algNameString);
    .extractKey(keyMaterial, inputDataBuffer, stringToDecrypt);
    .toString(stringToDecrypt);

    result = Windows.Security.Cryptography.Core.CryptographicEngine
    ...
    .decodeFromBase64String(stringToDecrypt);
    .decrypt(symmetricKey, inputDataBuffer, ivBuffer);
    .decrypt(stringToDecrypt, algNameString);
    .extractKey(keyMaterial, inputDataBuffer, stringToDecrypt);
    .toString(stringToDecrypt);

    return result;
}
```

Answer:

Work Area

```

function decryptString(keyMaterial, stringToDecrypt
    , algNameString, keysize, ivBuffer) {
    var result;
    var inputDataBuffer = Windows.Security
        .Cryptography.CryptographicBuffer

    ...
    .decodeFromBase64String(stringToDecrypt);
    .decrypt(symmetricKey, inputDataBuffer, ivBuffer);
    .decrypt(stringToDecrypt, algNameString);
    .extractKey(keyMaterial, inputDataBuffer, stringToDecrypt);
    .toString(stringToDecrypt);

    result = Windows.Security.Cryptography.Core.CryptographicEngine

    ...
    .decodeFromBase64String(stringToDecrypt);
    .decrypt(symmetricKey, inputDataBuffer, ivBuffer);
    .decrypt(stringToDecrypt, algNameString);
    .extractKey(keyMaterial, inputDataBuffer, stringToDecrypt);
    .toString(stringToDecrypt);

    return result;
}

```

Question: 73

You are developing a Windows Store app by using JavaScript. The app persists a list of stocks in the app's settings. The stock list is identified by a key of stockList. The app must allow users to remove their stock lists from the app's settings. The following function call removes the stockList setting:

`deleteAppSetting("stockList") ;`

You need to remove only stockList from the settings storage without disrupting other settings. Which code segment should you use?

A.

```

function deleteAppSetting(setting) {
    var localSettings = Windows.Storage.ApplicationData.current.sessionStorage;
    localSettings.delete(setting);
}

```

B.

```

function deleteAppSetting(setting) {
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;
    localSettings.values.clear(setting);
}

```

C.

```
function deleteAppSetting(setting) {  
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;  
    localSettings.values.delete(setting);  
}
```

D.

```
function deleteAppSetting(setting) {  
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;  
    localSettings.values.remove(setting);  
}
```

Answer: D

Question: 74

You are developing a Windows Store app by using JavaScript. The app will allow users to customize various features. The customizations will be persisted by using the saveMySettings function.

You need to persist the customizations.

Which code segment should you use?

A.

```
function saveMySettings (setting, inputValue) {  
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;  
    localSettings.values[setting] = inputValue;  
    var value = localSettings.values[setting];  
    ...  
}
```

B.

```
function saveMySettings (setting, inputValue) {  
    var localSettings = Windows.Storage.ApplicationData.current.sessionStorage;  
    localSettings.get[setting] = inputValue;  
    var value = localSettings.get[setting];  
    ...  
}
```

C.

```
function saveMySettings (setting, inputValue) {  
    var localSettings = Windows.Storage.ApplicationData.current.localSettings;  
    localSettings[setting] = inputValue;  
    var value = localSettings[setting];  
    ...  
}
```

D.

```
function saveMySettings (setting, inputValue) {  
    var localSettings = Windows.Storage.ApplicationData.current.sessionStorage;  
    localSettings.value[setting] = inputValue;  
    var value = localSettings.values[setting];  
    ...  
}
```

Answer: A

Question: 75

HOTSPOT

You are developing a Windows Store app by using JavaScript. The app will be used to create video blogs. The app uses the device's internal camera. The app must meet the following requirements:

- Allow the user to record audio and video.
- Save files in the .mp4 file format.
- Store files in the user's Videos library.

You need to ensure that the app meets the requirements. How should you complete the relevant code? (To answer, select the correct code segment from each drop-down list in the answer area.)

Work Area

```
var media = new Windows.Media.Capture.MediaCapture();
var file;

function startRecording () {
    [REDACTED]
    Windows.Storage.CreationCollisionOption.generateUniqueName).then (
        function (newFile) {
            file = newFile;
            media.startRecordToStorageFileAsync(profile, storageFile).then(
                function(result) {
                    [REDACTED];
                }, errorHandler);
        });
}

function endRecording () {
    [REDACTED]
}
```

Work Area

```
var media = new Windows.Media.Capture.MediaCapture();
var file;

function startRecording () {
    media.MediaCapture.stopMediaCaptureSession().then(function (result) { }, errorHandler);
    media.stopRecordAsync().then(function (result) { }, errorHandler);
    Windows.Storage.KnownFolders.videosLibrary.createFileAsync("myBlog.mp4",
    Windows.Storage.KnownFolders.videosLibrary.createFileQuery()

Windows.Storage.CreationCollisionOption.generateUniqueName).then (
    function (newFile) {
        file = newFile;
        media.startRecordToStorageFileAsync(profile, storageFile).then(
            function(result) {
        }, errorHandler);
    });
}

function endRecording () {
    media.MediaCapture.stopMediaCaptureSession().then(function (result) { }, errorHandler);
    media.stopRecordAsync().then(function (result) { }, errorHandler);
    Windows.Storage.KnownFolders.videosLibrary.createFileAsync("myBlog.mp4",
    Windows.Storage.KnownFolders.videosLibrary.createFileQuery()
```

Answer:

Work Area

```

var media = new Windows.Media.Capture.MediaCapture();
var file;

function startRecording () {
    media.MediaCapture.stopMediaCaptureSession().then(function (result) { }, errorHandler);
    media.stopRecordAsync().then(function (result) { }, errorHandler);
    Windows.Storage.KnownFolders.videosLibrary.createFileAsync("myBlog.mp4",
    Windows.Storage.KnownFolders.videosLibrary.createFileQuery()

Windows.Storage.CreationCollisionOption.generateUniqueName).then (
    function (newFile) {
        file = newFile;
        media.startRecordToStorageFileAsync(profile, storageFile).then(
            function(result) {
        }, errorHandler);
    });
}

function endRecording () {
    media.MediaCapture.stopMediaCaptureSession().then(function (result) { }, errorHandler);
    media.stopRecordAsync().then(function (result) { }, errorHandler);
    Windows.Storage.KnownFolders.videosLibrary.createFileAsync("myBlog.mp4",
    Windows.Storage.KnownFolders.videosLibrary.createFileQuery()
)
}

```

Question: 76

HOTSPOT

You are developing a Windows Store app by using JavaScript. The app will be used in multiple geographic regions. You need to ensure that the app displays dates in the region-specific full date format. How should you complete the relevant code? (To answer, select the correct code segment from each drop-down list in the answer area.)

Work Area

```

var dateFormatting = [dropdown]; ;

var myDateFormatter = new dateFormatting.DateTimeFormatter(
    dateFormatting.YearFormat.full,
    dateFormatting.MonthFormat.full,
    dateFormatting.DayFormat.default,
    dateFormatting.DayOfWeekFormat.full);
var myDate = new Date();
document.getElementById('output').innerText
    = [dropdown];

```

Work Area

```

var dateFormatting =  ;
Windows.Globalization.Calendar
Windows.Globalization.DateTimeFormatting
Windows.Globalization.GeographicRegion

var myDateFormatter = new dateFormatting.DateTimeFormatter(
    dateFormatting.YearFormat.full,
    dateFormatting.MonthFormat.full,
    dateFormatting.DayFormat.default,
    dateFormatting.DayOfWeekFormat.full);
var myDate = new Date();
document.getElementById('output').innerText
=  ;
myDateFormatter.calendar(myDate(utc.now()))
myDateFormatter.format(myDate)
myDateFormatter.format(myDate.getDate())

```

Answer:**Work Area**

```

var dateFormatting =  ;
Windows.Globalization.Calendar
  ;
Windows.Globalization.DateTimeFormatting
Windows.Globalization.GeographicRegion

var myDateFormatter = new dateFormatting.DateTimeFormatter(
    dateFormatting.YearFormat.full,
    dateFormatting.MonthFormat.full,
    dateFormatting.DayFormat.default,
    dateFormatting.DayOfWeekFormat.full);
var myDate = new Date();
document.getElementById('output').innerText
=  ;
myDateFormatter.calendar(myDate(utc.now()))
  ;
myDateFormatter.format(myDate)
myDateFormatter.format(myDate.getDate())

```

Question: 77**DRAG DROP**

You are developing a custom date picker control for a Windows Store app. The control must meet the following requirements:

- Inherit from the WinJS DatePicker control.
- Provide an additional property to set if the date selection is required.

You need to ensure that the requirements are met. How should you complete the relevant code? (To answer, drag the

appropriate code segments to the correct locations in the answer area. 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.)

WinJS.DatePicker
WinJS.UI.DatePicker
WinJS.UI.Controls.DatePicker
WinJS.Class.define
WinJS.Class.derive
WinJS.Class.defineWithParent

```
WinJS.Namespace.define("CustomControls", {
  DatePicker: [
    function (element, options) {
      this._super.constructor(element, options);
    },
    {
     isRequired: {
        set: function (value) { this._isRequired = value; },
        get: function () { return this._isRequired; }
      }
    }
  );
});
```

Answer:

WinJS.DatePicker
WinJS.UI.Controls.DatePicker
WinJS.Class.define
WinJS.Class.defineWithParent

```
WinJS.Namespace.define("CustomControls", {
  DatePicker: WinJS.Class.derive([
    WinJS.UI.DatePicker
    function (element, options) {
      this._super.constructor(element, options);
    },
    {
     isRequired: {
        set: function (value) { this._isRequired = value; },
        get: function () { return this._isRequired; }
      }
    }
  );
});
```

Question: 78

You are developing a Windows Store app by using JavaScript. The app will be used in multiple geographic locations. The app implements character grouping. You need to ensure that the app can access only the first character group. Which code segment should you use?

- A. var item = new Windows.Globalization.Collation.CharacterGroupings() .getAt(1);
- B. var item = new Windows.Globalization.Collation.CharacterGroupings() .lookup("1");
- C. var item = new Windows.Globalization.Collation.CharacterGroupings() .first();
- D. var item = new Windows.Globalization.Collation.CharacterGrouping() .first;

Answer: C

Question: 79

HOTSPOT

You develop a Windows Store app by using JavaScript. The app displays a list of video controls. The user can add video controls to the list. You need to animate the video control list when the user adds a control to the list. How should you complete the relevant code? (To answer, select the correct code segment from each drop-down list in the answer

area.)

Work Area

```
function addToList() {
    var affectedItems = document.querySelectorAll(".listItem");
    var newItem = document.createElement("video");
    newItem.className = "listItem";

        (newItem, affectedItems);
    list.insertBefore(newItem, list.firstChild);

}
```

Work Area

```
function addToList() {
    var affectedItems = document.querySelectorAll(".listItem");
    var newItem = document.createElement("video");
    newItem.className = "listItem";

    addToList.beginAnimation();
    addToList.execute();
    list.refresh();
    var addToList = WinJS.UI.Animation.AddToListAnimation
    var addToList = WinJS.UI.Animation.createAddToListAnimation

        (newItem, affectedItems);
    list.insertBefore(newItem, list.firstChild);

    addToList.beginAnimation();
    addToList.execute();
    list.refresh();
    var addToList = WinJS.UI.Animation.AddToListAnimation
    var addToList = WinJS.UI.Animation.createAddToListAnimation

}


```

Answer:

Work Area

```
function addToList() {
    var affectedItems = document.querySelectorAll(".listItem");
    var newItem = document.createElement("video");
    newItem.className = "listItem";

    addToList.beginAnimation();
    addToList.execute();
    list.refresh();
    var addToList = WinJS.UI.Animation.AddToListAnimation
    var addToList = WinJS.UI.Animation.createAddToListAnimation

        (newItem, affectedItems);
    list.insertBefore(newItem, list.firstChild);

    addToList.beginAnimation();
    addToList.execute();
    list.refresh();
    var addToList = WinJS.UI.Animation.AddToListAnimation
    var addToList = WinJS.UI.Animation.createAddToListAnimation

}
```

Question: 80**HOTSPOT**

You are creating a Windows Store app by using JavaScript. You need to ensure that the app can receive push notifications from a calling app. How should you complete the relevant code? (To answer, select the appropriate method from the drop-down list in the answer area.)

Work Area

```
function openChannel() {
    var channel;
    var chanOpt = Windows.Networking.PushNotifications.
        PushNotificationChannelManager.

    return chanOpt.then(function (chan) {
        channel = chan;
    },
    errorHandler));
}
```

Work Area

```
function openChannel() {
    var channel;
    var chanOpt = Windows.Networking.PushNotifications.
        PushNotificationChannelManager.

    createPushNotificationChannelForApplicationAsync();
    createPushNotificationChannelForApplicationAsync(id);
    createPushNotificationChannelForSecondaryTileAsync();
    createPushNotificationChannelForSecondaryTileAsync(id);

    return chanOpt.then(function (chan) {
        channel = chan;
    },
    errorHandler));
}
```

Answer:

Work Area

```

function openChannel() {
    var channel;
    var chanOpt = Windows.Networking.PushNotifications.
        PushNotificationChannelManager.

        createPushNotificationChannelForApplicationAsync();
createPushNotificationChannelForApplicationAsync(id);
createPushNotificationChannelForSecondaryTileAsync();
createPushNotificationChannelForSecondaryTileAsync(id);

    return chanOpt.then(function (chan) {
        channel = chan;
    },
    errorHandler));
}

```

Question: 81

You are developing a Windows Store app that uses Windows Push Notification Services (WNS). The app includes the following code:

```

01 var notifications = Windows.UI.Notifications;

02 var startDate = new Date();

03 var polledUrl = "http://contoso.cloudapp.net/";

04 var uri = new Windows.Foundation.Uri(polledUrl);

05

```

The app must poll a notification service once a day and update the app tile with new content. You need to initiate polling. Which code segment should you insert at line 05?

A.

```

var recurrence = notifications.PeriodicUpdateRecurrence.day;
notifications.TileUpdateManager.createTileUpdaterForApplication().Update(uri, startDate, recurrence);

```

B.

```

var recurrence = notifications.PeriodicUpdateRecurrence.86400;
notifications.TileUpdateManager.startPeriodicUpdate(uri, startDate, recurrence);

```

C.

```
var recurrence = notifications.PeriodicUpdateRecurrence.daily;  
notifications.TileUpdateManager.createTileUpdaterForApplication().startPeriodicUpdate(uri, startDate,  
recurrence);
```

D.

```
var recurrence = notifications.PeriodicUpdateRecurrence.daily;  
notifications.TileUpdateManager.createTileUpdaterForApplication(uri, startDate, recurrence);
```

Answer: C

Question: 82

You are writing a Windows Store app by using JavaScript. You need to authenticate a cloud server as a source for Windows Push Notification Services (WNS). What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Create a code-signing certificate.
- B. Register the app with the Dashboard.
- C. Create the HTTPS authentication request.
- D. Obtain the identity values and credentials for the app.

Answer: A, B, D

Case Study: 1

Scenario 1

Background

Southbridge Video rents and sells video games, movies, and other multimedia content. The company is currently expanding its operations. Southbridge video is developing a Windows Store news reader and social media app. Users will be able to view and interact with news stories that are related to the video game, entertainment, and related industries. Southbridge Video employees will also use the app to manage sales leads, order fulfillment, and customer-service related activities.

Business Requirements

The app has the following requirements.

Email

Users must be able to email news items to their contacts.

Navigation

- Easy navigation access must be available to move to the next and previous pages.
- Users searching for specific news items must be able to navigate directly to an item from the search results pane.

News items

- When a user selects a news item on newsPage.html, the news item should be displayed in the newsItem.html page.
- The app must periodically retrieve new news items on the newsPage.html page.
- The app must allow the user to save annotated news.
- The app must display a short title for each news item.

Search capabilities

- The app must allow users to search within available news items to locate articles of interest.
- The app must provide search suggestions for users.

Authentication

- Employees must be able to view the sales leads, order fulfillment, and customer-service related pages.
- Authenticated users must be able to save news items to read at a later time.
- Authenticated users must be able to add and save handwritten notes to the news items.
- The app must allow users to choose whether their credentials will be saved after they first log in. User credentials must be saved by default.

Technical Requirements

Email

- When a user clicks the To button to email news items, only contacts that have email addresses should be displayed.
- When multiple contacts are selected, the email addresses must be displayed in the To text box as a semi-colon-delimited string.

News items

The app must periodically retrieve new items from a web service. The app must display a progress indicator while retrieving new items.

The news feed service must respond to all requests within 15 seconds. The app must not throw an error if the service does not respond within the allotted time.

Titles for news items must not overflow into other elements on the page.

Authenticated users must be able to add handwritten notes to the news items by using a stylus or the mouse. The app must support saving annotations along with the news item. The app must cancel the navigation from newsItem.html to newsPage.html if there are unsaved changes in the annotations area.

Search capabilities

The app must retrieve a list of phrases from the news service and provide them as search suggestions to users.

Authentication

- Users connected to the corporate network must authenticate against an Active Directory server.
- Users outside of the corporate network must authenticate by using forms-based authentication.
- User credentials must not be transmitted in plain text.

Application Structure

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.)

emailPage.html

```
EH01 <body>
EH02 ...
EH03 <div>
EH04   <button id="BtnTo">To</button>
EH05   <input type="text" id="To"/>
EH06 ...
EH07 </div>
EH08 </body>
```

emailPage.js

```
EJ01 function chooseContact(eventObject) {
EJ02   var picker = Windows.ApplicationModel.Contacts.ContactPicker();
EJ03
EJ04   picker.pickSingleContactAsync().then(function (contact) {
EJ05 });
EJ06 }
```

getCredential.js

```
GC01 function launchCredPicker() {
GC02   try {
GC03     var options = new Windows.Security.Credentials.UI.CredentialPickerOptions();
GC04 }
```

getCredential.js

```
GC01 function launchCredPicker() {
GC02   try {
GC03     var options = new Windows.Security.Credentials.UI.CredentialPickerOptions();
GC04
GC05     Windows.Security.Credentials.UI.CredentialPicker.pickAsync(options)
GC06       .then(function (results) {
GC07         ...
GC08       });
GC09     catch (err) {
GC10       WinJS.log && WinJS.log("Error message: " + err.message, "sample", "error");
GC11     }
GC12 }
```

newsItem.html

```
NI01 <body>
NI02 ...
NI03 <div>
NI04   <canvas id="inkCanvas"></canvas>
NI05   <div>
NI06     <button id="draw">Draw</button>
NI07     <button id="select">Select</button>
NI08     <button id="erase">Erase</button>
NI09   </div>
NI10 </div>
```

newsItem.js

```
NJ01 function isInkInput(evt)
NJ02 {
NJ03
NJ04 }
NJ05
NJ06 function drawStrokes() {
NJ07
NJ08   strokeColor = "black";
NJ09   strokeWidth = 2;
NJ10 }
NJ11
NJ12 function selectStrokes() {
NJ13
NJ14   strokeColor = "red";
NJ15   strokeWidth = 1;
NJ15 }
```

newsPage.html

```
NH01 <body>
NH02 ...
NH03   <divclass="newsitemtemplate"data-win-control="WinJS.Binding.Template">
NH04     <imgclass="news-item-image" src="#" data-win-bind="src: backgroundImage; alt:
title" />
NH05   <divclass="news-item-info">
NH06
NH07     <h4class="news-item-description" data-win-bind="textContent: description"></h4>
NH09   </div>
NH10 </div>
NH11 </body>
```

newsPage.js

```

NP01 var nav = WinJS.Navigation;
NP02 ItemInvoked: function (eventObject) {
NP03   var item = data.items.getAt(eventObject.detail.itemIndex);
NP04
NP05   }
NP06 },
NP07
NP08   function provideSuggestions(queryText, suggestionRequest) {
NP09     var suggestionList = getSuggestions();
NP10     var query = queryText.toLowerCase();
NP11
NP12     }
NP13   }
NP14 }
NP15 }
NP16
NP17 function OnActivated(e) {
NP18   var detail = e.detail;
NP19
NP20   WinJS.Navigation.navigate("/html/NewsItem.html",id);
NP21 }
NP22 }
```

Question: 1

You need to configure the CredentialPicker object to meet the requirements. Which code segment should you insert at line GC04?

- A. options.callerSavesCredential = false;
- B. options.CredentialSaveOption.unselected;
- C. options.CredentialSaveOption.selected;
- D. options.callerSavesCredential = true;
- E. options.CredentialSaveOption.hidden;

Answer: C

Question: 2

You need to implement the code to meet the search requirements. Which code segment should you insert at line NP11?

A.

```

for (var i = 0, len = suggestionList.length; i < len; i++) {
  if (suggestionList[i] === query) {
    suggestionRequest.searchSuggestionCollection.appendQuerySuggestion
(suggestionList[i]);
```

B.

```
for (var i = 0, len = suggestionList.length; i < len; i++) {
    if (suggestionList[i] === query) {
        suggestionRequest.searchSuggestionCollection.appendResultSuggestion
(suggestionList[i]);
```

C.

```
for (var i = 0, len = suggestionList.length; i < len; i++) {
    if (suggestionList[i].substr(0, query.length).toLowerCase() === query) {
        suggestionRequest.searchSuggestionCollection.appendResultSuggestion
(suggestionList[i]);
```

D.

```
for (var i = 0, len = suggestionList.length; i < len; i++) {
    if (suggestionList[i].substr(0, query.length).toLowerCase() === query) {
        suggestionRequest.searchSuggestionCollection.appendQuerySuggestion
(suggestionList[i]);
```

Answer: D

Question: 3

You need to implement the code to retrieve news items according to the requirements. Which code segment should you add to newsPage.js?

A.

```
function fetchDailyNews(){
    WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
        .then(function progress(result) {
            progressDiv.innerText = result.readyState;
        })
        .then(function complete(result) {
            ...
        });
}
```

B.

```
function fetchDailyNews(){
    WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
        .then(function progress(result) {
            progressDiv.innerText = result.readyState;
        })
        .then(function complete(result) {
            ...
        });
}
```

C.

```
function fetchDailyNews(){
    WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
        .done(function progress(result) {
            progressDiv.innerText = result.readyState;
        });
}
```

D.

```
function fetchDailyNews() {
    WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
        .done(function complete(result) {
            ...
        }, null,
        function progress(result) {
            progressDiv.innerText = result.readyState;
        });
}
```

Answer: D

Question: 4

You need to ensure that the app displays only contacts that meet the requirements. Which code segment should you insert at line EJ03?

A.

```
picker.selectionMode =
Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
```

B.

```
picker.selectionMode =
Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
```

C.

```
picker.desiredFields.append(Windows.ApplicationModel.Contacts.ContactField
("Email",string));
```

D.

```
picker.desiredFields.append
(Windows.ApplicationModel.Contacts.KnownContactField.email);
```

Answer: D

Question: 5

You need to ensure that the user can annotate news items according to the requirements. Which code segment should you insert at line NJ03?

A.

```

return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.button === 1));
B.
return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.button === 0));
C.
return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.type === 0));
D.
return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.type === 1));

```

Answer: B

Question: 6

You need to implement the code to meet the requirements for handling changes in the annotation area of the newsItem.html page. Which event handler should you add to newsItem.js?

A.

```

WinJS.Navigation.addEventListener("beforenavigate", onbeforeNavigate);
function onbeforeNavigate(eventObject) {
    if (hasChanges) {
        eventObject.detail.setPromise(WinJS.Promise.wrap(true));
    }
    else {
        eventObject.detail.setPromise(WinJS.Promise.wrap(false));
    }
}

```

B.

```

WinJS.Navigation.addEventListener("navigating", onNavigating);
function onNavigating(eventObject) {
    if (hasChanges) {
        eventObject.detail.setPromise(WinJS.Promise.wrap(true));
    }
    else {
        eventObject.detail.setPromise(WinJS.Promise.wrap(false));
    }
}

```

C.

```

WinJS.Navigation.addEventListener("beforenavigate", onbeforeNavigate);
function onbeforeNavigate(eventObject) {
    eventObject.detail = null;
}

```

D.

```

WinJS.Navigation.addEventListener("navigating", onNavigating);
function onNavigating(eventObject) {
    eventObject.detail = null;
}

```

Answer: A

Question: 7

You need to ensure that the navigation requirements for displaying news items are met. Which code segment should you insert at line NP04?

- A. nav.navigate("/html/newsPage.html");
- B. nav.navigate ("/html/newsItem.html", { item: item });
- C. nav.forward (" /html/newsItem.html");
- D. nav.forward("/html/newsPage.html", { item: item });

Answer: B

Question: 8

You need to implement the code to meet the requirements for displaying content from search results. Which code segment should you insert at line NP19?

A.

```
if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {  
    var id = FindNewsId(detail.arguments);
```

B.

```
if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {  
    var id = FindNewsId(detail.queryText);
```

C.

```
if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {  
    var id = FindNewsId(detail.queryText);
```

D.

```
if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {  
    var id = FindNewsId(detail.arguments);
```

Answer: B

Question: 9

You need to ensure that the requirements for capturing user input on the newsItem.html page are met. Which code segments should you use? (Each correct answer presents part of the solution. Choose all that apply.)

- A. inkManager.mode = Windows.UI.Input.Inking.InkManipulationMode.selecting;
- B. inkManager.mode = Windows.UI.Input.Inking.InkRecognitionTarget.selected;
- C. inkManager.mode = Windows.UI.Input.Inking.InkManipulationMode.inking;
- D. mkMarager.mode = Windows.UI.Input.Inking.InkRecognitionTarget.all;

Answer: AB

Question: 10

You need to ensure that the layout for newsPage.html meets the requirements. Which layout should you choose?

A.

```
#MyFlexbox {  
    display: -ms-grid;  
    background: gray;  
    border: blue;  
    -ms-grid-columns: auto;  
}
```

B.

```
#MyFlexbox {  
    display: -ms-flexbox;  
    background: gray;  
    border: blue;  
    -ms-flex-wrap: wrap;  
}
```

C.

```
#MyFlexbox{  
    display: -ms-flexbox;  
    background: gray;  
    border: blue;  
    -ms-flex-align:stretch;  
}
```

D.

```
#MyFlexbox {  
    display: -ms-inline-grid;  
    background: gray;  
    border: blue;  
    -ms-grid-columns: auto;  
}
```

Answer: B

Question: 11

You need to ensure that employees are authenticated across public networks according to the requirements. Which code segment should you insert at line GC04?

A.

```
option.authenticationProtocol =
    Windows.Security.Credentials.UI.AuthenticationProtocol.negotiate;
```

B.

```
option.authenticationProtocol =
    Windows.Security.Credentials.UI.AuthenticationProtocol.basic;
```

C.

```
option.authenticationProtocol =
    Windows.Security.Credentials.UI.AuthenticationProtocol.digest;
```

D.

```
option.authenticationProtocol =
    Windows.Security.Credentials.UI.AuthenticationProtocol.custom;
```

Answer: C

Question: 12

You need to implement the requirements for sending news items to multiple contacts. Which code segment should you use to replace the code in line EJ04?

A.

```
var toEmail = "";
picker.pickSingleContactsAsync().then(function (contact) {
    contact.emails.forEach(function (email) {
        toEmail = toEmail.concat(email.value, ";");
    });
});
document.querySelector("#To").innerText = toEmail;
```

B.

```
var toEmail = "";
picker.pickMultipleContactsAsync().then(function (contact) {
    contact.emails.forEach(function (email) {
        toEmail = toEmail.concat(email.value, ";");
    });
});
document.querySelector("#To").innerText = toEmail;
```

C.

```
var toEmail = "";
picker.pickSingleContactsAsync().then(function (contacts) {
    contacts.forEach(function (contact) {
        toEmail = toEmail.concat(contact.emails[0].value, ";");
    });
});
document.querySelector("#To").innerText = toEmail;
```

D.

```
var toEmail = "";
picker.pickMultipleContactsAsync().then(function (contacts) {
    contacts.forEach(function (contact) {
        toEmail = toEmail.concat(contact.emails[0].value, ";");
    });
});
document.querySelector("#To").innerText = toEmail;
```

Answer: D

Question: 13

You need to ensure that the navigation requirements for displaying news items are met. Which code segment should you insert at line NP04?

- A. Windows.Devices.Enumeration
- B. Windows. Devices.Input
- C. Windows.Media.Devices
- D. Windows.UI.Input

Answer: D

Case Study: 2

Scenario 2

Background

You are developing a Windows Store app by using HTML5, JavaScript, and CSS3. The app will be used to access details about products that your company sells.

Business Requirements

The app must do all of the following:

- Be available to customers in many different countries.
- Display a list of product categories.
- Display the products for a selected category.
- Display details of a selected product.
- Display images of each product one at a time in a vertical presentation.
- Provide a link to an About section in the Settings pane.
- Update product data on a daily basis.
- Allow the user to view the last selected product while the app is offline.
- Be deployed in the Windows Store.

Technical Requirements

General

- When the user restarts the app, the app must start in the state it was in when it was last used.
- App settings controls must be 346 pixels wide.
- The app must optimize bandwidth use and performance.

Security

- The app must use an enterprise certificate.

- The user must provide valid credentials to access the app.
- After user authentication, the app must use stored credentials.
- User accounts will be validated against a pre-existing enterprise service.

App Architecture

- Service calls must be separated from the user interface.
- The app must follow the MVC design pattern.
- Service classes can be written in C++, C#, VB, or JavaScript.
- The app must communicate with pre-existing enterprise services.

Application Structure

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.)

default.js

```

DF01 (function () {
DF02   "use strict";
DF03   WinJS.Application.onactivated = function (eventObject) {
DF04     if (eventObject.detail.kind ===
Windows.ApplicationModel.Activation.ActivationKind.launch) {
DF05       ...
DF06       WinJS.UI.processAll();
DF07
DF08       WinJS.Application.onsettings = loadSettings;
DF09     }
DF10   };
DF11
DF12   function loadSettings(e){
DF13
DF14     WinJS.UI.SettingsFlyout.populateSettings(e);
DF15   }
DF16
DF17   WinJS.Application.start();
DF18})();

```

credentialManager.js

```

CM01 (function () {
CM02   "use strict";
CM03
CM04   WinJS.Namespace.define("credentialManager", {
CM05     saveCredentials: function (applicationID, userName, password) {
CM06
CM07     },
CM08     ...
CM09     getStoredCredentialsFull: function (applicationID, userName) {
CM10       var credential = undefined;
CM11
CM12       try {
CM13
CM14         }
CM15       catch (e) {
CM16         }
CM17
CM18       return credential;
CM19     },
CM20     ...
CM21   });
CM22 })();

```

about.html

```

AB01 <!DOCTYPE html>
AB02 <html>
AB03   <head>
AB04     <title>About</title>
AB05   </head>
AB06   <body>
AB07     <div id="about">
AB08       <div class="win-header">
AB09         <div class="win-label">About</div>
AB10       </div>
AB11     <div class="win-content">
AB12       ...
AB13     </div>
AB14   </div>
AB15 </body>
AB16 </html>

```

Question: 1

You need to implement the getStoredCredentialsFull method. Which code segment should you insert at line CM13?

A.

```
credential = credentialStore.retrieve(applicationID, userName);
var credentialStore = new Windows.Security.Credentials.PasswordVault();
```

B.

```
credential = credentialStore.pickAsync(applicationID, userName);
var credentialStore = new Windows.Security.Credentials.UI.CredentialPicker();
```

C.

```
var credentialStore = new Windows.Security.Credentials.PasswordVault();
credential = credentialStore.retrieve(applicationID, userName);
```

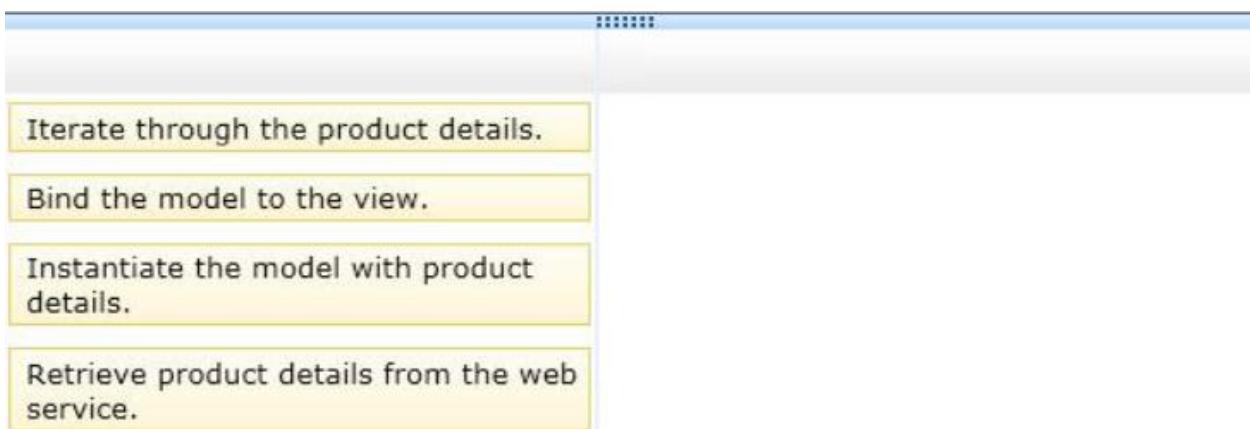
D.

```
var credentialStore = new Windows.Security.Credentials.UI.CredentialPicker();
credential = credentialStore.pickAsync(applicationID, userName);
```

Answer: C

Question: 2**HOTSPOT**

You need to ensure that the product details are displayed. 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.)



Answer:



Question: 3

You need to ensure that the about.html page is displayed according to the requirements. Which attribute should you add to the DIV element in line AB07?

- A. data-win-control="WinJS.UI.ApplicationSettings.SettingsLayout"
- B. data-win-control="WinJS.UI.SettingsLayout"
- C. data-win-control="WinJS.UI.ApplicationSettings.SettingsPane"
- D. data-win-control="WinJS.UI.SettingsPane"

Answer: B

Question: 4

You are preparing to deploy the app. You need to ensure that the app meets the deployment requirements. Which tool should you use to validate the app?

- A. Windows App Cert Kit
- B. System Center Configuration Manager
- C. Microsoft Deployment Toolkit
- D. SelfCert

Answer: A

Question: 5

You need to implement the saveCredentials method. Which code segment should you insert at line CM06?

A.

```
var passwordVault = new Windows.Security.Credentials.PasswordVault();
var credential =
    new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
passwordVault.save(credential);
```

B.

```
var credentialPicker = new Windows.Security.Credentials.UI.CredentialPicker();
var credential =
    new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
credentialPicker.store(credential);
```

C.

```
var credentialPicker = new Windows.Security.Credentials.UI.CredentialPicker();
var credential =
    new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
credentialPicker.save(credential)
```

D.

```
var passwordVault = new Windows.Security.Credentials.PasswordVault();
var credential =
    new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
passwordVault.add(credential);
```

Answer: A

Question: 6

You are designing the architecture for the app. You need to ensure that the logical design fulfills the design pattern requirements. Which type of object should you create?

- A. C# class library
- B. Windows Runtime components
- C. A single JavaScript file
- D. A separate JavaScript file for each page that contains a single enterprise service provider implementation

Answer: B

Question: 7

You need to ensure that the about page is displayed. Which code segment should you insert at line DF13?

A.

```
e.detail.commands = { "about": { href: "/Settings/about.html", title: "About" } };
```

B.

```
e.detail.applicationcommands = { "about": { target: "/Settings/about.html", title: "About" } };
```

C.

```
e.detail.applicationcommands = { "about": { href: "/Settings/about.html", title: "About" } };
```

D.

```
e.detail.commands = { "about": { target: "/Settings/about.html", title: "About" } };
```

Answer: C

Question: 8

You need to ensure that the settings for the About page meet the business requirements. Which attribute should you add to the DIV element in line AB07?

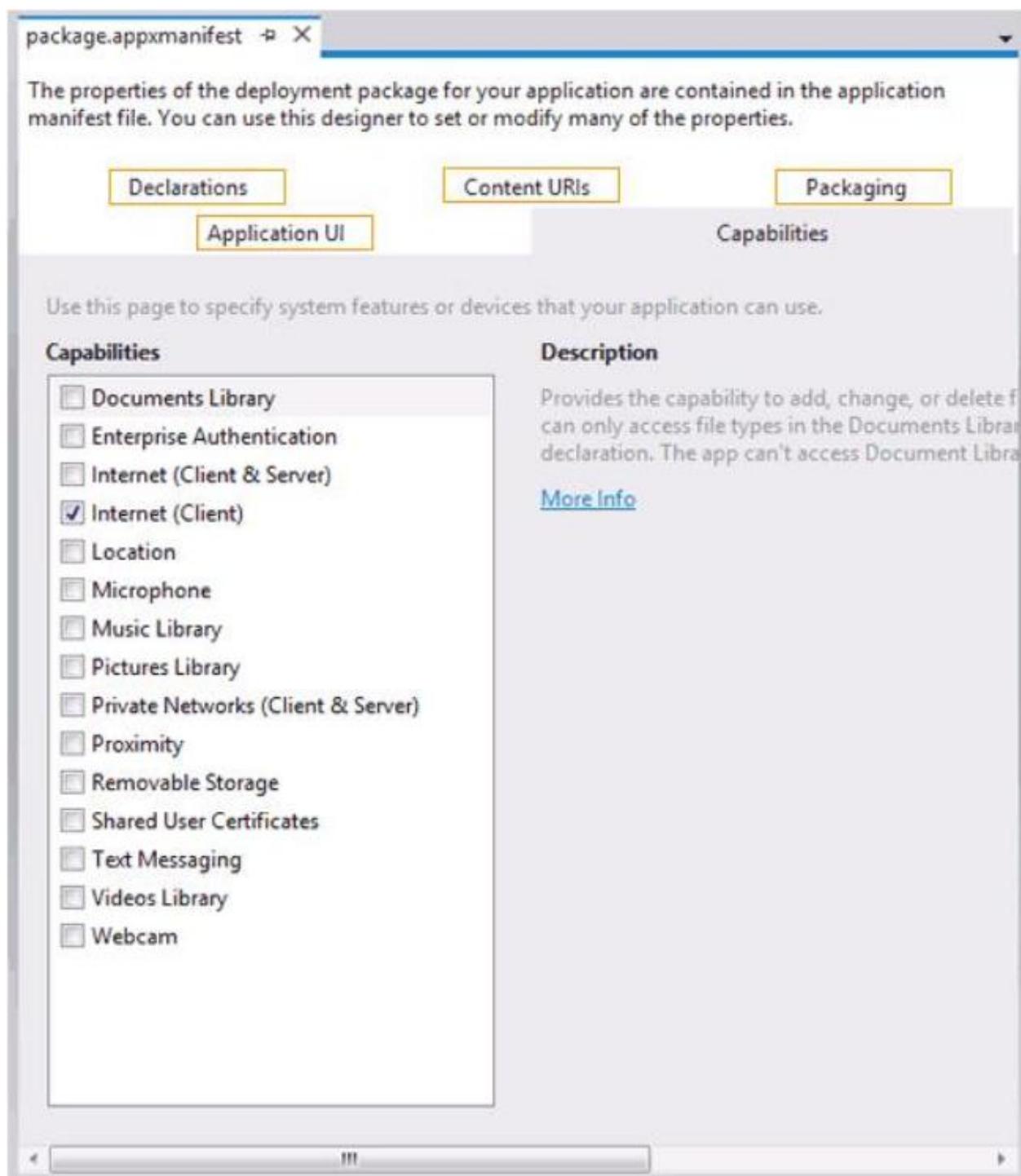
- A. data-win-options="{width:'narrow1'}"
- B. data-win-options="{width:'346'}"
- C. data-win-options="{size:'narrow1'}"
- D. data-win-options={size:'346'}"

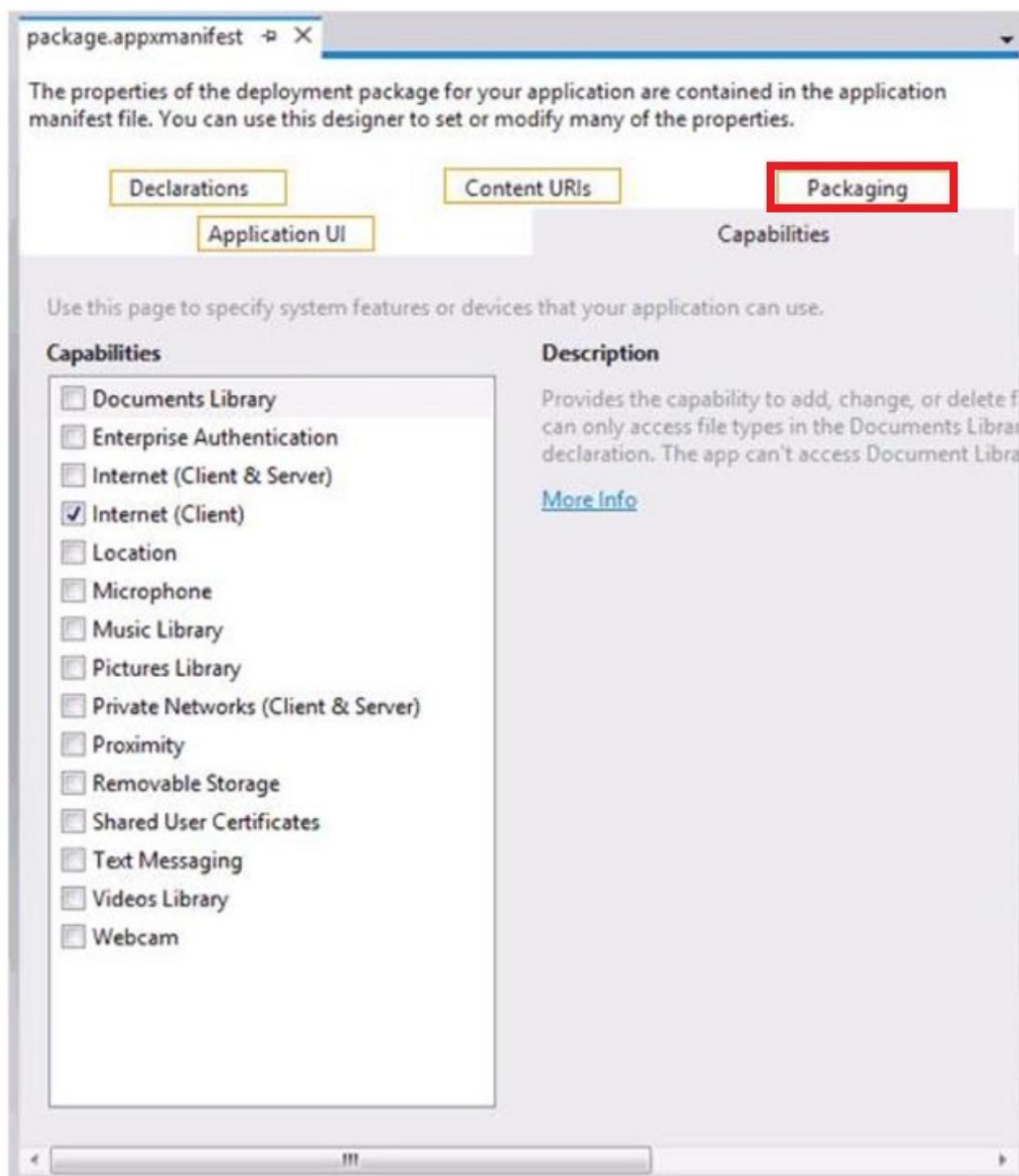
Answer: A

Question: 9

HOTSPOT

You are preparing to deploy the app. You need to prepare the app according to the technical specifications. Which tab in Visual Studio should you use? (To answer, select the correct tab in the answer area.)

**Answer:**



Question: 10

You need to ensure that the about.html page is displayed. Which code segment should you insert at line DF13?

A.

```
e.detail.commandsrequested += { "about": { target: "/Settings/about.html", title: "About" } };
```

B.

```

e.detail.applicationcommands = { "about": { href: "/Settings/about.html", title: "About" } };

C.
e.detail.applicationcommands = { "about": { src: "/Settings/about.html", title: "About" } };

D.
e.detail.commandsrequested += { "about": { href: "/Settings/about.html", title: "About" } };

```

Answer: B

Question: 11

You need to ensure that the JavaScript object that is defined in the credentialManager.js file can be consumed by other Windows Store apps that are written in different programming languages. How should you rewrite the code?

- A. As a WinJS.Class object
- B. As an ASP.NET server control
- C. As a Windows Runtime component
- D. As an XAML control

Answer: C

Case Study: 3**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.
- 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:

- Browse a list of the trainer's workout recordings.
- Record workouts by using the built-in webcam.
- 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.
- Enable retrieval of workout recordings by using a custom URL.
- Encapsulate 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) {  
CD09             display(file);  
CD10         }  
CD11         else {  
CD12             processError(file);  
CD13         }  
CD14     });  
CD15 }  
CD16  
CD17 function saveClientProfile() {  
CD18     var sp = new Windows.Storage.Pickers.FileSavePicker();  
CD19     sp.defaultFileExtension = ".xml";  
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) {
VD15     cameraID = devices[0].id;
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       ));
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     }
BG21     i = tasks.moveToNext();
BG22   }
BG23 }

```

Question: 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.ApplicationModel.Background.SystemTriggerType.sessionConnected, true

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

Answer: D

Question: 2

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: 3

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: 4

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: 5

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 cameraID variable to null.
- D. Check the devices collection for null before setting the cameraID variable.

Answer: D

Question: 6

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.videoSettings.enableCamera();
```

Answer: A

Question: 7

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: 8

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: 9

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: 10

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: 11

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: 12

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: 13

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

Case Study: 4

Scenario 2

Background

You are developing a Windows Store app by using JavaScript. The app is named Getting Around. The app will use geo-location to provide location-aware assistance to people who are traveling. Users will record audio information about locations. Full and trial versions of the app will be available from the Windows Store. The feature name of the full version will be gettingAround. The trial version will be valid for 30 days.

Business Requirements

The Getting Around app must meet the following business requirements:

- Track the user's current location in accordance with the Windows Certification guidelines for devices and sensors.
- Notify the user about upcoming obstacles.
- Ensure that the user can play, pause, and stop audio recordings.
- Ensure that the user can listen to recordings on Digital Living Network Alliance (DLNA)-compatible headphones.

Technical Requirements

The Getting Around app must meet the following technical requirements:

- Connect to the Internet.
- Use the device's sensors to detect the user's location.
- Every 15 minutes, poll an obstacles database that is stored in the cloud.
- Send messages about upcoming obstacles to the lock screen of the user's device as soon as an obstacle is detected.
- Enable the user to save the most recently recorded location information on the device by using a DataCompositeValue object.
- Enable retrieval of audio recordings from a cloud server.
- Headphones, when connected, must use the Play To technology. The PlayTo control that is used for streaming is named aplayer and is in the HTML file that is used by the player.js file.

To assist with diagnostics and monitoring, the app must do the following:

- Place an audit log that will track touch events on the user's device.
- Store the audit log in the user's localSettings object.
- Ensure that the audit log can be sent by email to the support desk if the user is having problems.

The app must support the following hardware requirements:

- Windows 8
- Microphone and speakers
- Internet connection
- DLNA-compatible hearing device (optional)

While testing the app, you establish the following:

- The app fails to detect the location on some devices.
- When connectivity is lost, access to the obstacle data is not available.

background.js

```
BG01 function requestLockScreen() {  
BG02     var background = new Windows.ApplicationModel.Background;  
BG03     background.BackgroundExecutionManager.requestAccessAsync().then(  
BG04         function (result) {  
BG05             ...  
BG06             }, errorHandler);  
BG08     }  
BG09  
BG10    function registerTask() {  
BG11        var builder = new Windows.ApplicationModel.Background.BackgroundTaskBuilder();  
BG12        builder.name = "obstacles";  
BG13        builder.taskEntryPoint = "obstacles.js";  
BG14  
BG15        builder.setTrigger(trigger);  
BG16        ...  
BG17    }
```

location.js

```
LO01 var latitude;
LO02 var longitude;
LO03 var location;
LO04
LO05 function trackLocation() {
LO06   location = new Windows.Devices.Geolocation.Geolocator();
LO07   if (location)
LO08     location.addEventListener("positionchanged", positionChanged);
LO09 }
LO10
LO11 function positionChanged(position) {
LO12   latitude = position.position.coordinate.latitude;
LO13   longitude = position.position.coordinate.longitude;
LO14   saveLocation();
LO15 }
LO16
LO17 function getLocation() {
LO18   try {
LO19     Windows.Devices.Geolocation.Geolocator().getGeopositionAsync().done
(function (position) {
LO20       if (position) {
LO21         latitude = position.coordinate.latitude;
LO22         longitude = position.coordinate.longitude;
LO23       }
LO24     }, errorHandler);
LO25   } catch (ex) {
LO26     errorHandler(ex);
LO27   }
LO28 }
LO29
LO30 function stopTracking() {
LO31   if (location)
LO32
LO33 }
LO34
LO35 function saveLocation() {
LO36
LO37 }
```

player.js

```

PL01 function playAudioFile(ndx) {
PL02   try {
PL03     var musicLibrary = Windows.Storage.KnownFolders.musicLibrary;
PL04     musicLibrary.getFilesAsync().then(
PL05       function (resultLibrary) {
PL06         if (resultLibrary.length > 0) {
PL07           document.getElementById("aplayer").src = URL.createObjectURL(resultLibrary
[ndx]);
PL08           document.getElementById("aplayer").play();
PL09         }
PL10       });
PL11     } catch (ex) {
PL12       handleError(ex);
PL13     }
PL14   }
PL15
PL16
PL17 function sourceRequestHandler(e) {
PL18   try {
PL19     var sr = e.sourceRequest;
PL20     var controller;
PL21
PL22     try {
PL23
PL24     } catch (ex) {
PL25       handleError(ex);
PL26     }
PL27
PL28   } catch (ex) {
PL29     handleError(ex);
PL30   }
PL31 }
```

Question: 1

You need to retrieve and register a DLNA-compatible device. Which code segment should you insert at line PL16?

- A. var player = Windows.Media.Devices.AudioDeviceController();
- B. var player = Windows.Media.Devices.DLNADeviceController();
- C. var player = Windows.Media.PlayTo.PlayToManager.getForCurrentView();
 player.addEventListener("sourcerRequested", sourceRequestHandler, false);
- D. var player = Windows.Media.PlayTo.PlayToManager.showPlayToUI();
 player.addEventListener("sourcerRequested", sourceRequestHandler, false);

Answer: C

Question: 2

You need to handle the location-detection problem. What should you do?

- A. Insert a try statement immediately after line LO05 and a catch block immediately before line LO09. Handle the exception in the catch block.

- B. Insert an else statement immediately before line LO09. In the else statement, display a notification that the device does not support location.
- C. At line LO08, change the positionchanged argument to statuschanged.
- D. At line LO06, change the Geolocator class to locator.

Answer: B

Question: 3

You need to implement the audit log. Which object should you use?

- A. Windows.Storage.ApplicationData.current.localSettings
- B. Windows.Storage.ApplicationData.current.roamingFolder
- C. Windows.Storage.ApplicationData.current.temporaryFolder
- D. Windows.Storage.ApplicationData.current.temporarySettings

Answer: A

Question: 4

You need to ensure that the lock screen access configuration meets the requirements. Which code segment should you insert at line BG05?

- A. if (result == background.BackgroundAccessStatus.allowedWithAlwaysOnRealTimeConnectivity)
- B. if (result == background.BackgroundAccessStatus.allowedMayUseActiveRealTimeConnectivity)
- C. if (result != background.BackgroundAccessStatus.allowedWithAlwaysOnRealTimeConnectivity)
- D. if (result != background.BackgroundAccessStatus.allowedMayUseActiveRealTimeConnectivity)

Answer: A

Question: 5

You need to implement the database polling. Which code segment should you insert at line BG14?

- A. var trigger = new Windows.ApplicationModel.Background.TimeTrigger (15, false);
- B. var trigger = new Windows.ApplicationModel.Background.TimeTrigger(600, false);
- C. var trigger = new Windows.ApplicationModel.Background.TimeTrigger(900, true);
- D. var trigger = new Windows.ApplicationModel.Background.TimeTrigger(10, true);

Answer: A

Question: 6

You need to resolve the issue of unavailable obstacle data. What should you do?

- A. Store the obstacle data in cloud storage.
- B. Download the obstacles database when the app is installed, and update the database when the app is updated.
- C. Store the obstacle data in indexDB storage.
- D. Store the obstacle data in the SessionStorage object.

Answer: C

Question: 7

You need to implement the audit log. Which action should the app perform when the user touches a button?

- A. Add a row to a database log table.
- B. Create a custom log file entry.
- C. Send the event to a remote web service.
- D. Create a Windows Application Log entry.

Answer: B

Question: 8

You need to turn off tracking. Which code segment should you insert at line L032?

- A. location.removeEventListener("statuschanged", statusChanged);
- B. location.removeEventListener.all();
- C. location.endTracking ();
- D. location.removeEventListener("positior.changed", positionChanged);

Answer: D

Question: 9

You need to ensure that the lock screen access configuration meets the requirements. Which code segment should you insert at line BG05?

- A. if (result == background.BackgroundAccessStatus.denied)
- B. if (result ==
background.BackgroundAccessStatus.allowedWithAlwaysOnRealTimeConnectivity)
- C. if (result ==
background.BackgroundAccessStatus.allowedMayUseActiveRealTimeConnectivity)
- D. if (result ==
background.BackgroundAccessStatus.unspecified)

Answer: B

Question: 10

You need to specify the media to be streamed to DLNA-compatible devices. Which code segment should you insert at line PL21?

- A. controller = document.getElementById("aplayer").msPlayToSource;
- B. controller = document.getElementById("mediaplayer").msPlayToPrimary;
- C. controller = document.getElementById("aplayer").msGetPointerCapture;
- D. controller = document.getElementById ("mediaplayer") .msRealTime;

Answer: A

Question: 11

You need to implement the database polling. Which code segment should you insert at line BG14?

- A. var trigger = new Windows.ApplicationModel.Background.TimeTrigger(1230, false) ;
- B. var trigger = new Windows.ApplicationModel.Background.TimeTrigger(15, false);
- C. var trigger = new Windows.ApplicationModel.Background.TimeTrigger (900, true);
- D. var trigger = new Windows.ApplicationModel.Background.TimeTrigger(20, true);

Answer: A

Question: 12

You need to implement the audit log. What should you do?

- A. When the user moves the device, create a Windows Event Log entry.
- B. When the user moves the device, create a custom log file entry.
- C. When the user touches a button, create a Windows Event Log entry.
- D. When the user touches a button, create a custom log file entry.

Answer: D

Question: 13

You need to enable the user to save coordinates as specified in the requirements. Which code segment should you insert at line L036?

A.

```
var coordinates = new Windows.Storage.ApplicationDataCompositeValue();
coordinates["latitude"] = latitude;
coordinates["longitude"] = longitude;
var container =
Windows.Storage.ApplicationData.current.localSettings.createContainer
("locationContainer", Windows.Storage.ApplicationDataCreateDisposition.always);
Windows.Storage.ApplicationData.current.localSettings.containers.lookup
("locationContainer").values["coordinates"] = coordinates;
```

B.

```
var container =
Windows.Storage.ApplicationData.current.localSettings.createContainer
("locationContainer", Windows.Storage.ApplicationDataCreateDisposition.always);
Windows.Storage.ApplicationData.current.localSettings.containers.lookup
("locationContainer").values["coordinates"] = latitude + longitude;
```

C.

```
var coordinates = new Windows.Storage.ApplicationDataCompositeValue();
coordinates["latitude"] = latitude;
coordinates["longitude"] = longitude;
var container = localSettings.createContainer ("locationContainer");
container.value = coordinates;
```

D.

```
var coordinates = new Windows.Storage.ApplicationDataContainer();
coordinates["latitude"] = latitude;
coordinates["longitude"] = longitude;
var container =
Windows.Storage.ApplicationData.current.localSettings.createContainer
("locationContainer", Windows.Storage.ApplicationDataCreateDisposition.always);
Windows.Storage.ApplicationData.current.localSettings.containers.lookup
("locationContainer").values["coordinates"] = coordinates;
```

Answer: A
