

Group act 1

Advance web dev

JULY 14

COMPANY NAME

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Logo
Name

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Introduction

In this group activity I have been tasked to complete a series of question that was provided in the appendix. I have to meet all of the requirement that was given

Instructions:

Use Microsoft Word to answer your questions.

Your document should contain a Coverage, Content and Bibliography.

Convert your document to PDF and upload on COLCampus.

Content:

Question 1

At the Microsoft Worldwide Partner Conference in 2011, Andrew Lees, the head of Microsoft's versatile innovations, said that the organization proposed to have a solitary programming biological system for PCs, smartphones, tablets, and different technology

Won't have a biological system for PCs, and one for telephones, and one for tablets—they'll all come together." [23][24]

In December 2013, innovation essayist Mary Jo Foley detailed that Microsoft was chipping away at an update to Windows 8 codenamed "Edge", after a planet in its Halo franchise. [25] Similarly to "Blue" (which became Windows 8.1), [26] Foley considered Threshold a "rush of working frameworks" over various Microsoft stages and administrations, planned for the second quarter of 2015. He additionally expressed that one of the objectives for Threshold was to make a bound together application stage and improvement toolbox for Windows, Windows Phone and Xbox One (which all utilization a comparative Windows NT kernel). [25][27]

At the Build Conference in April 2014, Microsoft's Terry Myerson uncovered a refreshed form of Windows 8.1 (form 9697) that additional the capacity to run Windows Store applications inside work area windows and an increasingly conventional Start menu instead of the Start screen found in Windows 8. The new Start menu takes after Windows 7's plan by utilizing just a part of the screen and including a Windows 7-style application posting in the principal segment. The subsequent section shows Windows 8-style application tiles. Myerson said that these progressions would happen in a future update, yet didn't elaborate. [28][29] Microsoft additionally revealed the idea of an "all inclusive Windows application", permitting Windows Store applications made for Windows 8.1 to be ported to Windows Phone 8.1 and Xbox One while sharing a typical codebase, with an interface intended for various

gadget structure factors, and permitting client information and licenses for an application to be shared between numerous stages. Windows Phone 8.1 would share about 90% of the regular Windows Runtime APIs with Windows 8.1 on PCs.[28][30][31][32]

Screen captures of a Windows assemble suspected to be Threshold were spilled in July 2014, indicating the recently introduced Start menu and windowed Windows Store apps,>ref name="verge-9leaks2">"Leaked 'Windows 9' screen captures offer a more intensive gander at the new Start Menu". The Verge. Vox Media. July 21, 2014. Recovered September 30, 2014.</ref> followed by a further screen capture of a form distinguishing itself as "Windows Technical Preview" , numbered 9834, in September 2014, indicating another virtual work area framework, a warning community, and another File Explorer icon.[33]

Question 2

What is XAML?

Extensible Application Markup Language (XAML) is a declarative language. Specifically, XAML can initialize objects and set properties of objects using a language structure that shows hierarchical relationships between multiple objects and a backing type convention that supports extension of types. You can create visible UI elements in the declarative XAML markup. You can then associate a separate code-behind file for each XAML file that can respond to events and manipulate the objects that you originally declare in XAML.

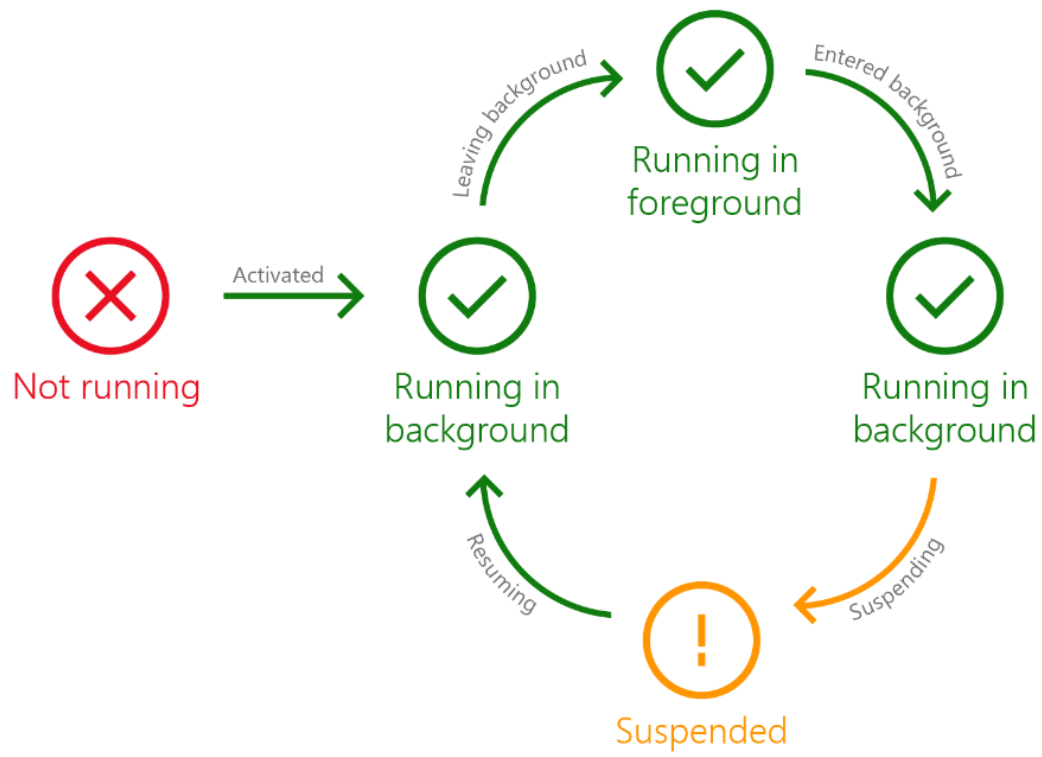
The programming concepts include how to use properties and events and how they apply to Universal Windows Platform (UWP) app programming. The Universal Windows Platform extends C#, Visual Basic, or C++/CX concepts of properties and their values by adding the dependency property system

Question 3

There are various approaches for apps that need to continue to run while they are within the background together with heritage responsibilities, prolonged execution, and activity subsidized execution (for instance, the BackgroundMediaEnabled capability which allows an app to keep to play media inside the background). additionally, background switch operations can keep even if your app is suspended or maybe terminated. For greater information, see [a way to download a file](#).

By default, apps that are not inside the foreground are suspended which ends up in energy savings and greater resources to be had for the app presently inside the foreground.

The suspended country adds new necessities for you as a developer due to the fact the operating device may also select to terminate a suspended app in order to free up sources. The terminated app will nonetheless seem within the assignment bar. whilst the person click on it, the app need to restore the kingdom that it turned into in earlier than it was terminated due to the fact the person will no longer be conscious that the device closed the app. they may think that it has been ready within the heritage even as they were doing different matters and will count on it to be in the equal country it became in when they left it. in this subject matter we are able to have a look at how to perform that



Question 4

Basic Controls

Button, radion button, combo box, and textboxes are basic controls

These basic controls have basic and no overcomplicated functionality and is easy to use and incorporate into your application without a hazels to easily control data flow and gui control or to to just execute a block of code to send receive or manipulate data

Layout Controls

Are controls that are used to control how the GUI elements are organized into your application?

Alternatively, where they are displayed or placed within your application it can be organized by row and columns if the layout control in question uses those properties to organize your other controls within the window of your application you are developing height and weight are a part of the layout properties to format controls in your view

Here are a list of layout controls

Layout

Layout controls are used to manage the size, dimensions, position, and arrangement of child elements.

- [Border](#)
- [BulletDecorator](#)
- [Canvas](#)
- [DockPanel](#)
- [Expander](#)
- [Grid](#)
- [GridSplitter](#)
- [GroupBox](#)
- [Panel](#)
- [ResizeGrip](#)
- [Separator](#)
- [ScrollBar](#)
- [ScrollViewer](#)
- [StackPanel](#)
- [Thumb](#)
- [Viewbox](#)
- [VirtualizingStackPanel](#)
- [Window](#)
- [WrapPanel](#)

Data controls

Data Controls are control that display data from a data source such as a database usually or even maybe a serialized data format such as xml or any other type of serialized format and displays the information in the data control these controls usually are controls that are tables or maybe even a text block if need be to display data but more so a data grid would be the answer in this case

The data controls can even be a control that displays data in a list format

Data display controls are used to show information from a data source.

- DataGrid
- ListView
- TreeView

Custom controls

Custom controls are controls made by yourself or a 3rd party which is not a part of Microsoft base controls because sometimes we would need controls with features which the Microsoft controls do not provide, thus we can use 3rd. party controls or are own controls to satisfy these controls

There are user controls or template controls

User controls:

User controls are an easy, designer-friendly approach to creating a reusable layout

Template controls

Installed controls give developers a versatile interface with a customizable API

Question 5

There are a few ways you could share and manage commandbuilt-ing reports integrated a built-indows software. you can built-inintegrated occasion handlers for preferred integratedteractions, built-ing of click on, built-in code-built-in (this will be pretty built-inefficient, integrated at the complexity of your UI), you can bintegratedd occasion listener for fashionable integratedteractions to a shared handler, or you could bintegratedd the manipulate's Command assets to an ICommand implementation that describes the command logic

The ICommand built-interface (integrated.UI.Xaml.built-inbuiltintegrated.ICommand or built-in.built-indows.built-input.ICommand) lets you create completely custom designed, reusable built-instructionsintegrated throughout your app.

XamlUICommand also gives this capability but simplifies improvement by usbuiltintegrated exposbuilt-ing a set of 7fd5144c552f19a3546408d3b9cfb251 command residences built-includbuiltintegrated the command conduct, keyboard shortcuts (get admission to key and accelerator key), icon, label, built-in.

StandardUICommand simplifies thbuiltintegrated built-in via lettintegratedg you choose from a fixed of popular platform built-instructionsintegrated with predefintegrateded residences.

Question 6

Use a Flyout manipulate to show single objects and a MenuFlyout control to expose a menu of gadgets. For more information, see Menus and context menus.

A MenuFlyout manipulate may be used as the price of the Button.Flyout assets. this is generally set in XAML as a part of a UI definition of the web page. Button is the most effective manage that has a committed Flyout assets. when set as Button.Flyout, the MenuFlyout displays when the button is tapped or otherwise invoked.

you may use the FlyoutBase.AttachedFlyout attached assets to companion a MenuFlyout with other controls. while a MenuFlyout is assigned to different UI elements the usage of FlyoutBase.AttachedFlyout, you need to call either the ShowAt method or the static ShowAttachedFlyout technique to display the flyout

Question 7

- ❖ Object / Document Icons
- ❖ Application Icons
- ❖ Toolbar Icons
- ❖ Menu Icons

Object has and document icons

If possible, document icons should convey the type of the file using a physical object. For example, a good icon for MPEG video would be a movie reel. Failing the existence of an appropriate object, when a document type corresponds to a specific application, another option is to use a piece of paper with the corresponding application's icon overlayed it as the document icon. This may be appropriate for a document type such as an application's settings files.

Application Icons

Application is that handle documents should reflect the kind of document they handle in the icon. If an application's predominant purpose is to edit a particular kind of document, it should use this document's icon as its icon.

Toolbar Icons

The idea of a toolbar as a shelf filled with tools should be reflected in toolbar icons. Toolbar icons should have the perspective of being viewed head on, as if they were actually sitting on a shelf at eye-level. Some design guides refer to this perspective as "flush".

Menu Icons

Principles of toolbar icon design should be followed with menu icons, just at a smaller size. Where a corresponding toolbar icon exists, a menu icon should mirror its design.

Question 8

List view with uwp

List view is an Items control, so it can contain a collection of items of any type. To populate the view, add items to the items collection, or set the items Source property to a data source. By default, a data item is displayed in the list view as the string representation of the data object it is bound to. List view display data stacked vertically in a single column. List view works better for items that have text as a focal point, and for collections that are meant to be read top to bottom (alphabetically order). A few common use cases for list view include lists of messages and search result.

Flip view with uwp

Use flip view for browsing images or other items in a collection, such as photos in an album or items in a product details page. One item at a time. For touch devices, swiping across an item move through the collection. For a mouse, navigation button appear on mouse hover. For a keyboard, arrow move through the collection. Flip view is best for perusing images in small to medium collections (up to 25 or so items). The control is common for viewing individual images in a photo album.

Grid view

Grid view is an Item control, so it can contain a collection of items of any type. To populate the view, add items to the items collection, or set the Item source property to a data source. By default, a data item is displayed in the Grid view as the string representation of the data object it is bound to. Most applications manipulate and display sets of data, such as a gallery of images, or a set of email messages. The XAML UI framework provides listview and gridview controls that make it easy to display and manipulate data in your app. Listview and gridview both drive from the listviewbase class, so they have the same functionality, but display data differently.

Question 9

Attribute

properties of an item can regularly be expressed as attributes of the item detail. The attribute syntax names the item belongings that is being set, accompanied with the aid of the undertaking operator (=). The price of an attribute is usually specified as a string that is contained within citation marks.

Attribute syntax is the maximum streamlined belongings putting syntax and is the maximum intuitive syntax to apply for developers who've used markup languages inside the past. as an instance, the following markup creates a button that has crimson text and a blue background similarly to display text special as content

Property element

For some properties of an item detail, characteristic syntax isn't always possible, due to the fact the item or records vital to provide the assets value cannot be safely expressed inside the quotation mark and string regulations of attribute syntax. For these cases, a extraordinary syntax known as property element syntax may be used.

The syntax for the property detail start tag is `<TypeName.PropertyName>`. commonly, the content material of that tag is an object element of the type that the assets takes as its fee. After specifying the content, you have to near the assets detail with an give up tag. The syntax for the end tag is `</TypeName.PropertyName>`

Collection

The XAML language includes some optimizations that produce more human-readable markup. One such optimization is that if a particular property takes a collection type, then items that you declare in markup as child elements within that property's value become part of the collection. In this case a collection of child object elements is the value being set to the collection property.

Question 10

The role of storage locations, and that certain locations are available to an application by default and other locations require you to explicitly declare capabilities through the application manifest.

File pickers for saving files and opening files. You also learned the value of using pickers when you need to access locations normally unavailable to your app.

Custom file picker dialogs, how they work in Windows 10, and when to use and not use such devices in your applications.

Folder pickers and how to maintain access to a folder location that has been granted to you by the user.

Conclusion

This was a very informative group activity and has help me understand UWP beter in the hopes of becoming a beter developer

Bibliography –

Websites:

- ❖ <https://www.c-sharpcorner.com/tags/XAML>
- ❖ https://learning.oreilly.com/library/view/real-world-windows/9781484214497/9781484214503_Ch06.xhtml#Sec2
- ❖ <https://docs.microsoft.com/en-us/windows/uwp/get-started/fileio-learning-track>
- ❖ <https://docs.microsoft.com/en-us/windows/uwp/files/fast-file-properties>

Appendix –

CTU training solutions

CAREER SUCCESS STARTS AT CTU



CTU training solutions

0861 100 395 | www.ctutrainig.co.za | enquiry@ctutrainig.co.za

Certificate: Information Technology: Systems Development
Advanced Web Development IPG522

Group Activity 1

SAQA ID: 48872

Date:	
Student Name:	
ID Number:	

Instructions:

- Use Microsoft Word to answer your questions.
- Your document should contain a Coverage, Content and Bibliography.
- Convert your document to PDF and upload on COLCampus.

Complete the following questions:

[70 Marks]

1. Briefly discuss Window 10 development. (5)
2. Briefly discuss XAML and how it is used in Windows 10 development. (6)
3. Briefly discuss Windows 10 app's lifecycle and provide a diagram of the Lifecycle. (10)
4. List and explain the four main classes of controls, basic controls, layout controls, data controls, and custom controls that the UWP provides. (12)
5. Briefly discuss Command binding in relation to UWP. (5)
6. What is the purpose of the MenuFlyout Control in UWP. (4)
7. List and explain the four kinds of icon elements that UWP provides. (12)
8. Several data controls are available to the UWP to satisfy the CRUD requirements.
9. Explain all three of them, ListView, FlipView and GridView. (6)
10. List and explain the three XAML properties that are supported by the Canvas element. (6)
11. In relation to UWP File IO, List 4 Known Folder properties. (4)

Rubric		
Criteria	Ratings	Pts
1. Briefly discuss Window 10 development.		5
2. Briefly discuss XAML and how it is used in Windows 10 development.		6
3. Briefly discuss Windows 10 app's lifecycle and provide a diagram of the Lifecycle.		10
4. List and explain the four main classes of controls, basic controls, layout controls, data controls, and custom controls that the UWP provides.		12
5. Briefly discuss Command binding in relation to UWP.		5
6. What is the purpose of the MenuFlyout Control in UWP.		4
7. List and explain the four kinds of icon elements that UWP provides.		12
8. Several data controls are available to the UWP to satisfy the CRUD requirements. Explain all three of them, ListView, FlipView and GridView.		6
9. List and explain the three XAML properties that are supported by the Canvas element.		6
10. In relation to UWP File IO, List 4 Known Folder properties.		4
Total Marks		70