In the Name of Allāh, the Most Gracious, the Most Merciful

Solved Subjective

Final term Papers 2014 and 2015

Q1: Which event combines information from independent touch devices updating simultaneously and package data in an easy-to-consume form?

Answer: startupdatinglocation and stopupdatinglocation

Q2: when we set filter property to null, what will happen?

Answer: To undo filtering, you can set the Filter property to null:
Nothing will happen
Filer:{category:null}

Q3: Selectors and declarations are two blocks of which website layer?

Answer: A CSS rule set consists of a selector and a declaration block:
H1 {color:blue; font-size:12px;}
H1 is selector
The selector points to the HTML element you want to style.
The declaration block contains one or more declarations separated by semicolons.
Each declaration includes a property name and a value, separated by a colon.

Q4: Write syntax to create instance of XMLHttpRequest?

Answer: Xmlhttp = new XMLHttpRequest();
xmlhttp.open("GET","ajax_info.txt",true);
xmlhttp

Q5: How you refresh current page in WPF Navigation based application?

Answer: This.navigationservice.Refresh();

Q6: Name and Explain two categories of binary's resources?

Answer: Resource: embed resources into the assembly
Content: This leaves resources as loose files and upon compilation this resource information is not embedded into assembly

Q7: Enlist three benefits of ObjData Provider?

Answer: By utilizing the XML or Object data providers, we can bind to different types of objects in our applications
ObjectDataProvider provides a convenient way to create and use objects as binding source objects in XAML
ObjectDataProvider enables you to create your object in XAML and make it available as a binding source. It provides the following properties that enable you to execute a query on your object and bind to the results.
Use the ConstructorParameters property to pass parameters to the constructor of your object.
Use the MethodName property to call a method and use the MethodParameters property to pass parameters to the method. You can then bind to the results of the method.

Q8: Ajax is interaction of which type of technologies?

Answer:
Ajax interactions can be used to do things such as validate form entries (while the user is entering them) using server-side logic, retrieve detailed data from the server, dynamically update data on a page, and submit partial forms from the page.

دنیا میں سب سے مشکل کام اپنی اصلاح اور سب سے آسان کام دوسروں پر نکتہ چینی کرنا ہے

5 mark Questions:

Q9: Describe purpose of using navigation in page in one line? And how we perform navigation?

Answer: Navigation means managing the current item, not the other kind of nav. navigation in three main ways: Calling the Navigate method, Using Hyperlinks, Using the journal.

Q10: Write Output:
msbuild/t:updateuidProjectName.csProj
LocBaml/parseProjectName_g_en_US.resources/out:-US-csv
Answer:
msbuild /t:updateuid ProjectName.csproj
running this gives every object element in every XAML file in the project on x:Uid directive with a unique
value and
LocBaml /parse ProjectName.g.en-US.resources /out:en-US.csv
this generate a simple .csv file contianing all the property values you should need to localize

Q11: When browser sends request to web server, in which formats server sends back information to web server? Give 4 examples?

Answer: Web servers receive request and responds as Html, plain text and XML, JSON

Q12: Ali wants to bind the entire set of XML data to Tree n Menue write the code?

Answer: Text="{Binding Source={x:Reference treeview}, Path=selecteditem.Header}"
<xmldataprovider x:Key="dataprovider" xpath="gamestats">

If you want to bind to xml tree.

<xmldataprovider x:Key="dataprovider" xpath="gamestats" Source="gamestats.xml"/>
<Label Content="{Binding Source={staticresource dataprovider},
Xpath=gamestat/highscore, Path=outerxml}"/>

Q13: How to localize binary resource. Write code.

Answer: localizing binary resources. Can partition into satellite assembly and use locbaml to manage string localization. To spec. A default culture and auto. Build a satellite assembly, you can to set uiculture. Need to open project file in a text ed. Add under debug, release etc. Or where it effects all prop. If you rebuild your project with this setting in place, youll find an en-US folder alongside your assembly, containing the satellite assembly named assemblyname.resources.dll. Also mark assembly with the neutral resource language matching.

```
<Project >
<propertygroup>
<uiculture>en-US</uiculture>
[assembly: neutralresourceslanguage("en-US",
Ultimateresourcefallbacklocation.Satellite)]
```

Next, apply Uid directive to any element needing localization. Msbuild /t:updateuid projectname.csproj. Locbaml /parse projectname.g.en-US.resources /out:en-US.csv. Now edit and localize all strings. Locbaml /generate Project-Name.resources.dll /trans:fr-CA.csv /cul:fr-CA. Then copy the assembly with a name matching the locale. To test, System.Threading.Thread.currentthread.currentuiculture (and System.Threading.Thread.currentthread.currentculture) to an instance of the desired cultureinfo.

Q14: Which object is the core of Ajax?

Answer: GET or POST
The XMLHttpRequest object is a data transport object that is the core of AJAX

Q15: Write code of the property which tells the location manager n accuracy.

Answer: Distancefilter and desiredaccuracy properties.
```
// Create location manager object
Locationmanager= [[cllocationmanager alloc] init];
// We want all results from the location manager
[locationmanager setdistancefilter:kcldistancefilternone];
// And we want it to be as accurate as possible
// regardless of how much time/power it takes
[locationmanager setdesiredaccuracy:kcllocationaccuracybest];
// Tell our manager to start looking for its location immediately
[locationmanager startupdatinglocation];
// This line may say self.window, don't worry about that
[[self window] makekeyandvisible];
Return YES;
}
```

Q16: Ali wants to select and hide all <p>tags from html. Give syntax for this in JavaScript and JQuery?

Answer:

```
var element = document.getElementsByTagName("p");
for (index = element.length - 1; index >= 0; index--) {
element[index].parentNode.removeChild(element[index]);
}
$(document).ready(function(){
$("button").Click(function(){
$("p").hide();
});
});
```

Q17: How we can implement content, like add pictures, change content in a page?
Answer: <listbox x:Name="picturebox"
Itemssource="{Binding Source={staticresource photos}}" >
</listbox >

The jquery simplifies all steps except that of changing the webpage simplest is load function which loads HTML into an area of web page e.g. Load news in a div from a web-server $('#headlines').load('todays news.html'); can only load from same site… Relative urls possible to add only a part $('#headlines').load('todays news.html #news');.

Q18:. How a server response to browser's request? Give at least 4 examples

Answer:
JS, server-side programming, and web browser, all work together. Web browser: xmlhttprequest object. Makes ajax possible. Talks to web server and get response. JS: sends request, waits for response, process response, updates web page. Web server: receives request and responds as HTML, plain text, XML, JSON. Or application server for more complicated tasks. Need web server for ajax examples.

Q19: binding

Answer: In last lecture, we discused data binding, binding object, markup extension, bind to any prop with inotifypropertychanged, target must be dependency property, bind to obj. So no property path, binding to collection, issynchronized with current item, datacontext, displaymemberpath, stringformat, datatemplate, valueconverter.

Q21: Choose selected data items i.e target items just like last 7 days pictures?

Answer: Filtering gives a property Filter of type Predicate¡Object¿. Its null by default e.g. Show only photos from last 7 days.

Q22: Jquery code: $ ('li:has(a)') output ???

Answer:
The code $('li:has(a)') matches a <li> if a <a> exists anywhere among its descendants, not just as a direct child.

جھوٹ انسان اور ایمان دونوں کا دشمن ہے

Q23: How can we present a window from automatically being activated when its is first show?

Answer: There are Activated & Deactivated events. Activate method (like setforegroundwindow). Showactivated=false, initially not shown

```
Public static void Main()
{
Mainwindow window = new mainwindow();
Window.Show();
}
```

Q24: When it is preferable to use begininvoke then invoke?

Answer: Long running operations make application unresponsive. Because main thread used for rendering UI and responding to events. Start up worker thread and update UI when finished. But UI updation usually possible only on UI thread. So, forward the request to UI thread.(or marshal it). Low level way is to call begininvoke or Invoke on the elements Dispatcher object. It takes a delegate and queues it on the UI thread. Invoke does same but then blocks until it is done. So you can return a value. But if you dont need begininvoke is better.

Q25: Identify client side languages and server side languages cold fusion, asp.net, java script and php?

Answer: Server-Side Coding
JS is a prog lang and can be used on server side. The document sent to the browser may often contain client-side scripts. ASP.NET, PHP, Java, ColdFusion, Perl, Python, and Ruby are examples of languages used for server-side coding.

Q26: What are the 2 problems of memory management in IOs?

Answer: Freeing or overwriting data that is still in use. This causes memory corruption, and typically results in your application crashing, or worse, corrupted user data.
Not freeing data that is no longer in use causes memory leaks. A memory leak is where allocated memory is not freed, even though it is never used again. Leaks cause your application to use ever-increasing amounts of memory, which in turn may result in poor system performance or (in iOS) your application being terminated.

Q27: Write the Properties of touch point?
Answer:
TouchPoint has Position, Size, Bounds, TouchDevice, Action
(Down, Up, Move).

Q28: code was given and they said that selected properties are given with applied ascending and descending u are required to combined the 2 seperate selected statements as one how can u do this??
Answer:

Q29: What is the technique used in Cocoa framework for memory management.

Answer:
Cocoa framework use reference counting model for memory management

Q30: When using navigation in WPF, content is typically organized in which element?

When using navigation in WPF, content is typically organized in Page elements.
Page elements can then be hosted in one of two built-in navigation containers:
NavigationWindow or Frame.
These containers provide a way to navigate from one page to another, a "journal" that keeps track of navigation history, and a series of navigation-related events.

Q31: why we write navigation in one line line in a web page? syntax of navigation?

Answer: // Or navigate to a page via a URI
This.navigationservice.Navigate(new Uri("photopage.xaml", urikind.Relative));
This.commandbindings.Add(new commandbinding(applicationcommands.Help, helpexecuted, helpcanexecuted));

Q32: Write properties of MousePoint?

Answer: pageX page Y screenX screenY
Q33: What is "Command" in WPF?

Answer: Commands are a more abstract and loosely coupled version of events e.g. cut copy paste commands. They are exposed in various ways. They can be enabled disabled e.g. if there is nothing to paste.

جو لوگوں کے سامنے فخر کرتا ہے وہ لوگوں کی نظروں سے گر جاتا ہے

Q34: identify Application commands and component commands:
close
help
move to right
find
select to end

Answer:
Application commands: close , help, find

Component commands: move to right , select to end

Q35: which property tells the location manager about how accurate the location finding should be? And why the accuracy is important?

Q36: how can we destroy an object in objective-C?

Answer:
       Set the variable referencing to that object to nil.
Or
Destroy using [array Instance release]; Should also array Instance = nil; Otherwise dangling. but Sending message to nil is ok. nil is like null

Q37: Does Java script have any connection with java or not. Give valid reason?

Answer:
No connection with java
Actually java was popular before invention of JavaScript..... The first name of JavaScript was not JavaScript.... Due to popularity of java.... that new language change its name to JavaScript

Q38: what is the other name of JavaScript?

Answer:
JS has nothing to do with Java, originally named LiveScript but renamed to associate with the then hot Java

Q39: Media Commands, Navigation Commands, Editing Commands, application commands and components commands?

ApplicationCommands

e..g Close, Copy, Cut, Delete, Find, Help, New,
Open, Paste, Print, PrintPreview, Properties, Redo, Replace, Save, SaveAs, SelectAll, Stop, Undo, and more.

ComponentCommands

e.g. MoveDown, MoveLeft, MoveRight, MoveUp, ScrollByLine, ScrollPageDown, ScrollPageLeft, ScrollPageRight, ScrollPageUp, SelectToEnd, SelectToHome, SelectToPageDown, SelectToPageUp, and more.

MediaCommands

e.g. ChannelDown, ChannelUp, DecreaseVolume, FastForward, IncreaseVolume, MuteVolume, Next-
Track, Pause, Play, PreviousTrack, Record, Rewind, Select, Stop, and more.

NavigationCommands

e.g. BrowseBack,
BrowseForward, BrowseHome, BrowseStop, Favorites, FirstPage, GoToPage, LastPage, NextPage, PreviousPage, Refresh,
Search, Zoom, and more.

EditingCommands

e.g. AlignCenter, AlignJustify, AlignLeft, AlignRight, Correct-
SpellingError, DecreaseFontSize, DecreaseIndentation, EnterLineBreak, EnterParagraphBreak, IgnoreSpellingError,
IncreaseFontSize, IncreaseIndentation, MoveDownByLine, MoveDownByPage,
MoveDownByParagraph, MoveLeftBy-
Character, MoveLeftByWord, MoveRightByCharacter, MoveRightByWord, and more.

Q40 : Which element must be added to the project file to specify a default culture for resources automatically build an appropriate satellite assembly?

Answer:

Build a satellite assembly, you can to set UICulture. Need to open project file in a text ed. add under debug, release etc. or where it effects all prop.

Q41: Which data provider exposes.NET object as a data source?

Answer:

ObjectDataProvider exposes .net object as a data source.

کوشش کرو کہ تم دنیا میں رہو، دنیا تم میں نہ رہے
کیونکہ کشتی جب تک پانی میں رہتی ہے خوب تیرتی ہے
لیکن جب پانی کشتی میں آجاتا ہے تو وہ ڈوب جاتی ہے
حضرت علیؓ

Solved Subjective
Final term Papers 2014

Q42: **what is difference between hover() and toggle()? (2 marks)**

Answer:
Difference b/w hover() and toggle() is that toggle() works by clicking it on and off whereas hover() works just by positioning the mouse over it.

Q43: **Core Locations Framework contains which types of classes ? (2 Marks)**

Answer: Page 218
Core Locations classes that enable finding geographical position. distanceFilter and desiredAccuracy properties.

Q44: **when we preferred BeginInvoke instead of Invoke method? (2 Marks)**

Answer:
There are times when you want to invoke a delegate and wait for its execution to complete before the current thread continues. In those cases the Invoke call is what you want.
In multi-threading applications, you may not want a thread to wait on a delegate to finish execution, especially if that delegate performs I/O (which could make the delegate and your thread block). In those cases the BeginInvoke would be useful.

Q45: what is difference between server Side programming and Client Side Programming? (3 Marks)

Answer:
Server-side programming is the general name for the kinds of programs which are run on the Server.
Uses
  Process user input.
  Display pages.
  Structure web applications.
  Interact with permanent storage (SQL, files).
Much like the server-side, Client-side programming is the name for all of the programs which are run on the Client.
Uses
  Make interactive webpages.
  Make stuff happen dynamically on the web page.
  Interact with temporary storage, and local storage (Cookies, localStorage).
  Send requests to the server, and retrieve data from it.
  Provide a remote service for client-side applications, such as software registration, content delivery, or remote multi-player gaming.
Also check here for more detail

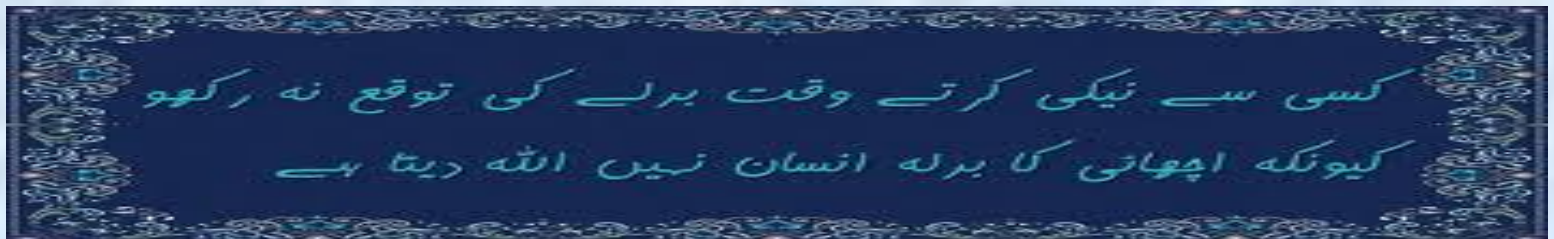**Q46: define iOS feature of Block and also provide its syntax? (3 Marks)**

Answer:
Blocks are a new feature that was introduced in iOS 4.0 and Mac OSX 10.6. Blocks can greatly simplify code. They can help you reduce code, reduce dependency on delegates, and write cleaner, more readable code.
A Block is a chunk of code that can be executed at some future time.
Blocks are first-class functions, which is a fancy way of saying that Blocks are regular Objective-C objects. Since they're objects, they can be passed as parameters, returned from methods and functions, and assigned to variables.
Syntax: return_type (^block_name)(param_type, param_type, ...)

کسی سے نیکی کرتے وقت برلے کی توقع نہ رکھو
کیونکہ اچھائی کا برلہ انسان نہیں اللہ دیتا ہے

Q47: Name of Touch Events only three? (3 Marks)

Answer:
ontouchdown(e)
capturetouch(e)
ontouchmove(e)

Q48: write a not on Retain count and also its working and usage? (5 Marks)

Answer:
"Retain count rules. Init, new, copy in name. Assume you own. Any other means. Assume in autorelease. If you dont own and want to make sure, call retain. No longer need and own than release or autorelease. When 0 count, dealloc called." - Direct from handbook, I have no idea what it means.

Q49: define in detail modes of data binding (5 marks)

Answer:
Binding Modes:
    One-Way
    Two-Way
    OneWayToSource
    OneTime
One way : The target is updated whenever the source changes.
Two-Way Binding means change to either the target or source updates the other
OneWayToSource is the opposite of One-Way binding. the source is changed whenever the target changes.
One-Time binding is like one-way except changes to the source are not reflected at the target. The target retains a snapshot of the source at the time the Binding is initiated.

Q50: Define the term "ios application bundle" /2 marks

Answer:
"a bundle is a [directory](#) that allows related resources such as an application's executable and its graphics to be grouped together, appearing as a single file to the user." - Wikipedia

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Q51: Can the operating system distinguish between windows with WPF contents and windows with Win32 contents? /2

Answer:
Yes, we can even create Host WPF content in a Win32 window. and vice versa.

Q52: As we know that ICollectionView has a property called "filter" which provides the facility for selective removal of itemsbased on an arbitrary condition.this property is also known as Predicate<Object>type.What is meant by this Predicate<Object.type? /2

Answer:
Filtering gives a property Filter of type Predicate¡Object¿.

Q53: Can Operating System distinguish between window contain WPF and window Contain Win32? (2 Marks)

Q54: what will be the efficient way of applying the same style on all p[aragraphs of HTML page?also provide an example //3

Answer:
A technique is to collect all our CSS rules in one place, a style sheet, and then apply the style sheet to every single element on the page. An embedded style sheet affects every element on the page. In order to create an embedded style sheet, we need to go to the head of the document.
/span>html>
/span>head>
  /span>title>Hello World</title>
  /span>style type="text/css">
   p {color: #008000; background: #ffff00}
  </style>
</head>
/span>body>
  /span>h1>Hello World</h1>
</body>

عقل مند کہتا ہے میں کچھ نہیں جانتا جبکہ بے وقُوف کہتا ہے کہ میں سب کچھ جانتا ہوں

Q55: **which property tells the location manager about how accurate the location finding should be?and why the accuracy is important? /3**

Answer:
[locationmanager setdesiredaccuracy:kcllocationaccuracybest];

Q54: **we know that whatever we bind to a collection (anything that implements IEnumerable,a default view is implicitly inserted between the source and target objects.you are required to define the term "view' and also the names of the items which are supported by it.. /3**

Can anyone please solve this I am having trouble understanding this.

Q56: **how can you refresh the current page in WPF Navigation based application? /3**

Answer:
This.navigationservice.Refresh();

Q57: **Tasks using objective C**
 Create location manager object
 Apply accuracy filter on location manager object created in first step
 Tell the manager to start looking for its location immediately

Answer:

// Create location manager object Locationmanager= [[cllocationmanager alloc] init];
// We want all results from the location manager [locationmanager setdistancefilter:kcldistancefilternone];
// And we want it to be as accurate as possible // regardless of how much time/power it takes [locationmanager setdesiredaccuracy:kcllocationaccuracybest];
// Tell our manager to start looking for its location immediately [locationmanager startupdatinglocation];
Goto lecture # 41

Q58: **define Term "View" and also write name of items that are supported by it? (3 Marks)**