Checklist Name: AdobeAppDevelopment

Revision Date: 2012.09.19.12.37

Focus On: A

Develop DevelopmentCycle app

* Equipment

FlexBuilder 4.6

* Create DevelopmentCycle app in FlexBuilder
* Create a Library

In FlashBuilder: File->New->Flex Library Project (e.g. ExLibrary)

In ExLibrary src: File->New->ActionScriptClass

(e.g. Package: ExLibrary

Name: MyString

Click Finish

Open MyString.as and add:

public aString(): String

{

return “This is my string.”

}

right-click on the project project (e.g. TabbedExample) where you want to use the function aString():String

click on Properties

click on Add Project

click on ExLibrary

click OK (maybe twice)

open primaryView in src->views in Tabbed Example

modify the code to use “= new MyString().aString()”

Run Debug on your laptop and test to see the contents of aString()

* Debug on laptop

Development Cycle for Android

* Equipment and Software

USB connector

Development machine

Development Cycle for iOS

* Process of deploying an app on iPad
  + Get a Development Certificate and an AppleWWDRCA.cer so you can create a development profile certificate from Apple for the iOS app you are developing
    - Open a browser and go to <https://developer.apple.com/membercenter/>
* Click on Certificates in left-hand menu
* “click here to download now” to get WWDR onto your laptop – a dialog will popup
* Select Save File and click OK
* AppleWWDRCA.cer will be put into your Download folder
* Move AppleWWWDRCA.cer into a folder (e.g. Documents/Adobe Flash Builder 4.6/ios Developer cer/
* double-click on AppleWWDRCA.cer and it will be opened by Keychain Access Certificates as “Apple Worldwide Developer Relations Certification Authority”
  + Connect your iPad to your MacBook Pro and launch iTunes
* click on your iPad in the Devices section of the left-hand menu
* click on the Serial Number: (e.g. GB029YARETV) to get the Identifier (UDID): (e.g. 061 … de3)
* Keep the window open. You need the UDID later.

* + Create a CertificateSigningRequest.certSigningRequest
* Open (on your laptop) Applications/Utilities/Keychain Access
* Run Keychain Access->Certificate Assistant->Request a Certificate From a Certificate Authority…
* User Email Address: (e.g. [cshubert@mit.edu](mailto:cshubert@mit.edu))
* Common Name: (e.g.Chuck Shubert for iOS app signing)
* Request Is:
* check “Saved to disk”
* check “Let me specify key pair information”
* click Continue
* Select folder for depositing request (e.g. Documents/Adobe Flash Builder 4.6/ios Developer certSigningRequest/)
* Click Save
* Click Continue
* Click Done
  + Get an App ID
    - Open a browser and go to <https://developer.apple.com/membercenter/>
    - Sign in the Member Center
    - click on iOS Provisioning Portal
    - click on Launch Assistant
    - click on Continue to go to the Choose an App ID
    - click on Create a new App ID
    - click on Continue to go to the Create an App ID
    - App ID Description: (e.g. ChuckShubertTutorialAppID)
    - click on Continue to go to Choose an Apple Device
    - click on Use an existing Apple device (e.g. the one that’s plugged in is OEIDpad’s iPad
    - click Continue to Submit Certificate Signing Request
    - select CertificateSigningRequest.certSigningRequest created above – Browse… to file (e.g. Documents/Adobe Flash Builder 4.6/ios Developer certSigningRequest/)
    - click Continue to go to Name your Provisioning Profile
    - ATTENTION - begin
    - Profile Description: (e.g. ChucksProvisioningProfile)
    - ATTENTION – end The above will be used throughout the Provisioning Portal to identify this Provisioning Profile.
    - click Generate to go to Generate Provisioning Profile

Profile Name: (e.g. ChucksProvisioningProfile)

Device: (e.g. OEITpad’s iPad)

Certificate Name: (e.g. Charles Shubert)

* + - click Continue to go to Download & Install Your Provisioning Profile
    - click Download brings up Opening (e.g. ChucksProvisioningProfile) dialog
    - ATTENTION - begin
    - click Save File which saves ChucksProvisioningProfile.mobileprovision in Downloads folder.
    - ATTENTION – end This is used by FlexBuilder 4.6 (I think).
    - Copy the .mobileprovision from Downloads to your folder (e.g. Documents/Adobe Flash Build 4.6/ios Developer mobileprovision/)
    - click Continue in Download & Install Your Provisioning Profile to go to Step 3: Verify Provision Profile Installation
    - ATTENTION – begin
    - This is where you install you Provisioning Profile into FlexBuilder 4.6 – remember your Provisioning Profile is where you put it in the last step
    - ATTENTION – end
    - click Continue to go to Download
    - click Download to Open Your Development Certificate (e.g. ios\_development.cer) dialog
    - click on Save File to save the file to the laptop’s Downloads Folder
    - copy ios\_development.cer to your folder (e.g. /Documents/Adobe Flash Build 4.6/ios Developer cer)
    - double-click on ios\_development.cer to install in Keychain Access
  + Export ios\_development.cer private key as .p12 file0
    - In Keychain Access Certificate it becomes
    - iPhone Developer: (e.g. Charles Shubert …)
    - Opening the key shows the name as
    - (e.g. Chuck Shubert for iOS app signing)
    - from
    - CertificateSigningRequest.certSigningRequest
    - Export as .p12
    - right-click on key
    - select Export “(e.g. Chuck Shubert for iOS app signing)”
    - Save As: (e.g. ChuckShubert\_iOS\_signing\_certificate.p12)
    - File Format: Personal Information Exchange (.p12)
    - Password: (e.g. modnar123??????)
    - Verify: (e.g. modnar123??????)
    - complete the dialog box
    - asks for the laptop’s password to export
    - click Allow
  + Go to FlexBuilder 4.6 – Run and Debug iPad
    - Remove old debug app by click and holding until shaking X appears, click X, click on iPad quit App button.
    - Create FlexBuilder 4.6 Run Debug Configuration
    - Run it
    - Click on the link to show the ipa file in the finder (bin-debug folder)
    - Open iTunes on your laptop
    - Check Devices to see your iPad
    - Click on Apps
    - Remove old debug app from Apps
    - Drag the ipa file to Apps
    - Click on your iPad in iTunes Devices
    - File->Sync on “<your iPad>”
    - Click on the app on your iPad to run it
  + Go to FlexBuilder 4.6 – Run and Debug on Desktop
* Select Project (e.g. TabbedExample)
* Right-click on Project
* New->folder Folder Name: (e.g. bin-release-temp)
* in menu select Project->Export Release Build…
* Export to folder: (e.g. bin-release-temp)
* Export as: Signed AIR package for installation on desktop
* Click next to go to Packaging Settings
* Select or create a .p12 certificate
* Type password
* Click Finish
* Double-click on bin-release-temp/TabbedExample.air

<https://developer.apple.com/ios/manage/overview/index.action> (look at How-To’s videos on this link)

* Go thru Views Tutorials
* Figure out how to change app icon
  + /bin-debug/<appname>-app.xml
* Figure out how to capture video
  + /bin-debug/<appname>-app.xml
* Figure out how to capture audio
  + /bin-debug/<appname>-app.xml
* Create new hire training videos and put them online
* Figure out how to write files
* Figure out how to put apps into html
* Figure out how to trim libraries with External and Manifest

References:

Current reference

Link for Packaging air applications for Apple iOS devices:

<http://www.adobe.com/devnet/air/articles/packaging-air-apps-ios.edu.html>

Old references

Check with Safari from tool bar “Certificates” to observe the status.

Go to this link and move forward:

<http://help.adobe.com/en_US/flex/mobileapps/WS064a3073e805330f6c6abf312e7545f65e-8000.html>

* Link for Simple Andriod app – Blank template

[http://www.youtube.com/watch?v=oJKQh7grRYc&feature=autoplay&list=](http://www.youtube.com/watch?v=oJKQh7grRYc&feature=autoplay&list=L41EAB2D5C605E340&playnext=3)

[L41EAB2D5C605E340&playnext=3](http://www.youtube.com/watch?v=oJKQh7grRYc&feature=autoplay&list=L41EAB2D5C605E340&playnext=3)

* Link for Add a splash screen to an Android app

<http://www.youtube.com/watch?v=Cp25EShGlP4&feature=autoplay&list=PL41EAB2D5C605E340&playnext=4>

* Link for BasicViewApp – ActionBar

<http://www.youtube.com/watch?v=fV85ndnoCA8&feature=autoplay&list=PL41EAB2D5C605E340&playnext=3>

* Link for BasicViewApp – View Transitions

<http://www.youtube.com/watch?v=An7EiUmYfl4&feature=autoplay&list=PL41EAB2D5C605E340&playnext=2>

* Link for BasicViewApp – Setup

<http://www.youtube.com/watch?v=1Y7KknM4ZTg&feature=autoplay&list=PL41EAB2D5C605E340&playnext=2>

* Link for exporting a release build – Android app <http://www.youtube.com/watch?v=H1iUiIcbqEk&feature=bf_next&list=PL41EAB2D5C605E340>
* <http://www.youtube.com/watch?v=xhvAine7Neo&feature=autoplay&list=PL41EAB2D5C605E340&playnext=1>
* Above link is for running Hello World in an Android Device
* Explore Adobe Air (Adobe Integrated Runtime) – need a plan.
* Use Firefox
* Start with Flex
* <http://www.adobe.com/devnet/flex.html?view=gettingstarted>
* <http://www.adobe.com/devnet/flex/getting_started.html>
* <http://www.adobe.com/devnet/flash-builder/articles/hello-world.html>
* Download Adobe Flash Builder 4.6
* Created Adobe acct: [cshubert@mit.edu](mailto:cshubert@mit.edu) modnar123
* <http://www.adobe.com/cfusion/tdrc/thankyou_2.0.cfm?product=flash_builder&loc=en_us>
* Flex 4.x Framework (Open source)
  + ActionScript and MXML are compiled languages
  + FlashBuilder is built on Eclipse (Plug-in)
  + Standard version is a good place to start (missing profiler, network monitor, …)
  + Finish first day of Flex in a week (how do I make progress at home?

Flex in a week (use Firefox):

<http://tv.adobe.com/watch/flex-in-a-week-day-1/using-flash-builder/>

<http://tv.adobe.com/watch/flex-in-a-week-day-1/compiling-and-viewing-the-application/>