Universidad de los Andes Ingeniería de Sistemas y Computación Guía para desplegar aplicación en dispositivo iOS 29 de marzo de 2012



Por: Mario Franco – mi.franco23@uniandes.edu.co

Esta guía muestra los pasos necesarios para desplegar una aplicación en un dispositivo iOS, usando Xcode 4.3.

Lo que está en letra negra debe ser realizado por el estudiante. Lo que está en letra verde debe ser realizado por admonsis. Lo que está en letra roja debe ser realizado por el profesor.

#### Prerrequisitos

Se debe tener instalado en el computador en el que se está trabajando el Device Debugging Support. XCode brinda asistencia para realizar esta operación la primera vez que se conecta el dispositivo iOS sobre el que se quiere desplegar la aplicación.

#### 1. Inscripción en Apple Developer

Si usted aun no es parte del equipo de desarrollo de Apple de la Universidad, debe pedirle a su profesor que solicite en admonsis una invitación. Una vez lo hayan invitado de admonsis, usted recibirá un correo que contiene un link, a través del cual usted se puede inscribir como Apple Developer.



Una vez usted se registre, usted recibirá un segundo correo de confirmación.



## 2. Creación de certificado

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Rey	/5	com.apple.ubiqu	ity.peer-uuid.EBAEF1AA-1318-43EE-AECO-B34701EF3E34	certificate	Mar 11, 2013 8:41:22 PM	login
Cer	rtificates	▶ Com.apple.ubigu	ity.peer-uuid.F46539CB-A0ED-4870-A823-4FF7D96C69F0	certificate	Mar 11, 2013 8:41:01 PM	login
		▶ Com.apple.ubigu	ity.peer-uuid.F744786D-8F6B-4683-9A41-198C8668FFFD	certificate	Mar 5, 2013 9:31:18 PM	login
		▶ Com.apple.ubigu	ity.ssl-cert.23C2EC6A-250C-4FD7-A3D7-2715B8F7EA5E	certificate	Mar 5, 2013 10:43:36 PM	login
		► Com.apple.ubigu	ity.ssl-cert.61EB75B3-FE10-427C-85D9-5524539B10CF	certificate	Mar 5, 2013 10:30:29 PM	login
		com.apple.ubigu	ity.ssl-cert.7D9D20EB-E1DA-459F-B823-4783AB302BDE	certificate	Mar 5, 2013 11:17:21 PM	login
		▶ Com.apple.ubiqu	ity.ssi-cert.8A266CFE-C922-4F63-850C-CFACE055CFC4	certificate	Mar 6, 2013 12:17:56 AM	login
		com.apple.ubigu	ity.ssl-cert.BB0606A6-EF9C-4756-B06F-4117EAEF1E15	certificate	Oct 13, 2012 1:26:11 PM	login
		▶ Com.apple.ubiqu	ity.ssl-cert.C87856D6-C898-4C38-92D0-68447A6C0730	certificate	Mar 5, 2013 4:58:26 PM	login
		▶ Com.apple.ubiqu	ity.ssl-cert.CE2A4B65-817A-4499-A40E-C6C86F5D4B7C	certificate	Mar 5, 2013 4:25:36 PM	login
		com.apple.ubigu	ity.ssl-cert.D4188E28-0288-4D81-9E8E-089751ECC33D	certificate	Mar 5, 2013 9:58:56 PM	login
		com.apple.ubiqu	ity.ssl-cert.E1A2F9EA-814B-462C-9D66-CC8384122109	certificate	Mar 7, 2013 4:22:08 PM	login
		▶ Com.apple.ubiqu	ity.ssl-cert.EBAEF1AA-1318-43EE-AEC0-B34701EF3E34	certificate	Mar 11, 2013 8:41:23 PM	login
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		▶ Com.apple.ubiqu	ity.ssl-cert.F744786D-BF6B-4683-9A41-198C8668FFFD	certificate	Mar 5, 2013 9:31:24 PM	login
		Developer ID Cer	tification Authority	certificate	Feb 1, 2027 5:12:15 PM	login
		iPhone Develope	r: Camilo Restreno (CDUYWUS3H3)	certificate	Sep 5, 2012 3:19:30 PM	login
				continente	500 5, 2012 5.15.50 FM	i i i i i i i i i i i i i i i i i i i

En el campo *User Email Address,* escriba el email con el cual usted se registró como Apple Developer en el paso 1.

En el campo *Common Name,* escriba su primer nombre y su primer apellido.

En el campo *CA Email Address,* no escriba nada.

Seleccione la opción Saved to disk.

Seleccione la opción *Let me specify key pair information.* 

Certificate	Assistant File Edit Window		🛜 🔳 (3:46) 📧 Thu Mar	29 5:20 PM Mario Franco Q
000		Keychain Access		
Click to lock the	login keychain.			Q
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	Expires: Wednesd:			
Euclone	This certificate	Certificate Information		
System		Enter information for the certificate you are reque	ting	
System Roots	Name	Click Continue to request a certificate from the CA	iting. Is	Keychain
	adempiere	ener continue to request a certificate from the es	, 2014 4:50:17	PM login
	Apple Application Integratic	User Email Address: mi.franco23@uniandes.edu.co	, 2017 2:16:09	PM login
	Apple Worldwide Developer		4, 2016 1:56:35	PM login
	com.apple.idms.appleid.prd	Common Name: Mario Franco	4, 2012 11:11:3	37 PM login
	com.apple.ubiquity.peer-ut	CA Email Address:	2013 10:43:35	PM login
	com.apple.ubiquity.peer-ut	Request is: C Emailed to the CA	2, 2012 2:01:12	PM login
	com apple.ubiquity.peer-ut	Saved to disk	2013 10:30:27	PM login
Category	com apple ubiquity peer-ut	Let me specify key pair information	2013 12:17:54	AM login
All Items	com apple ubiquity peer-up	5 7 7	1 2012 1:25:56	PM login
/ Passwords	com.apple.ubiquity.peer-u		2013 4:58:23	PM login
Secure Notes	com.apple.ubiquity.peer-u		2013 4:25:34	PM login
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	com.apple.ubiquity.ssl-cert.8A266CFE-C922-4F63-85	DC-CFACE055CFC4 certificate	Mar 6, 2013 12:17:56	AM login
	com.apple.ubiquity.ssl-cert.BB0606A6-EF9C-4756-B0	5F-4117EAEF1E15 certificate	Oct 13, 2012 1:26:11	PM login
	com.apple.ubiquity.ssi-cert.C87856D6-C89B-4C38-92	DD-6B447A6C0730 certificati	Mar 5, 2013 4:58:26 I	PM login
	com.apple.ubiquity.ssi-cert.CE2A4865-817A-4499-A4	UE-LOLBOTSU48/C certificati	Mar 5, 2013 4:25:36	PM login
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	Com.apple.ubiquity.ssi-cert.E1A2F9EA-8146-402C-9D	00-CC8584122109 Certificati	Mar 7, 2013 4.22.061	PM login
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	iPhone Developer: Camilo Restrepo (CDUYWUS3H3)	certificat	Sep 5, 2012 3:19:30 (	PM login
	iPhone Developer: Camilo Podriguez (C8Y3E77N4D)	certificate	Oct 7 2012 12:27:12	PM login
	+ i Copy	47 items		

Especifique el lugar donde quiere guardar el request del certificado. Se sugiere un lugar de fácil acceso como el *Desktop*.

Haga click en Save.

🗯 Certifica	e Assistant File Edit Window		B C () +) * ? (	📭 (2:46) 📧 Thu Mar 29	5:22 PM Mario Franco Q
000		Keychain Acce	55		
Click to lock	he login keychain.				Q.
Keychains	Centificate adempiere Self-slaned root c	Certificate Assi	stant		
a System	O The work Car	Save As: CertificateSigningReques	t.certSigningR		
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	com.apple.ubiquity.ssl-cert.E1A2F9EA-814B-462	C-9D66-CC8384122109	certificate	Mar 7, 2013 4:22:08 PM	login
	com.apple.ubiquity.ssl-cert.EBAEF1AA-1318-438	E-AEC0-B34701EF3E34	certificate	Mar 11, 2013 8:41:23 PM	login
	com.apple.ubiquity.ssl-cert.F46539CB-A0ED-48	70-A823-4FF7D96C69F0	certificate	Mar 11, 2013 8:41:03 PM	login
	com.apple.ubiquity.ssl-cert.F744786D-BF6B-468	33-9A41-198C8668FFFD	certificate	Mar 5, 2013 9:31:24 PM	login
	Developer ID Certification Authority		certificate	Feb 1, 2027 5:12:15 PM	login
	iPhone Developer: Camilo Restrepo (CDUYWUS3H	3)	certificate	Sep 5, 2012 3:19:30 PM	login
	+ i Copy	47	items	Oct 7 2012 12:27:12 PM	looin

En *Key Size* seleccione 2048 bits.

En *Algorithm* seleccione RSA.

Haga click en Continue.

		Keychain	Access			
Click to lock the	leeie koudesie				0	
Click to lock the	login keyenam.	and the second state of th			G	
Keychains	<key></key>					
o login	Kind: public key, F 😑 🔿 🔿	Certificate	Assistant			
<u> </u>	Usage: Encrypt, D					
A System	-	Conclusion		-		
System Poots		Your certificate reg	uest has been created on disk			
System Roots	Name	Tour certificate req	dest has been created on disk.	Modified	Expires	Keychain
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	com.apple.ubiquity.ssl-cert					login
	▶      com.apple.ubiquity.ssl-cert	8				login
	Com.apple.ubiquity.ssl-cert	Sand ili a art a				login
	com.apple.ubiquity.ssl-cert	PRICCUE				login
	com.apple.ubiquity.ssl-cert					login
	com.apple.ubiquity.ssl-cert		Show In Finder			login
Category	Com.apple.ubiquity.ssl-cert	<b>NA</b> 4	Show in Finder			login
All Items	com.apple.ubiquity.ssl-cert	5 7				login
/ Passwords	Com.apple.ubiquity.ssl-cert					login
Secure Notes	com.apple.ubiquity.ssl-cert	2 5				login
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My certificates	▶ 🖗 com.apple.ubiquity.ssl-cert					login
T Keys	Com.apple.ubiquity.ssl-cert					login
Certificates	com.apple.ubiquity.ssl-cert					login
	Com.apple.ubiquity.ssl-cert			-		login
	Com.apple.ubiquity.ssi-cert		Done			login
	Com.apple.ubiquity.ssi-cert					login
	Com.apple.ubiquity.ssi-cert.EBALF1AA-1318-430	E-AECO-B34701EF3E34	private key	-		login
	Com.apple.ubiquity.ssi-cert.F46539CB-A0ED-48	70-4823-4FF7D96C69F0	public key	-		login
	Com.appie.ubiquity.ssi-cert.F46539CB-AUED-48	70-A823-4FF7D96C69F0	private key			login
	Com.apple.ubiquity.ssi-cert.F744786D-BF6B-468	33-9A41-198C8008FFFD	public key			login
	Karia Franco	53-9A41-198C8008FFFD	private key			login
	Mario Franco		public key			login
	Mario Franco		private key	-		login
	Mario Franco		private key			login
	Mario Franco		public key			login
	Mario Franco		private key			login
	Mario Ignacio Franco		public key			login
	Maria Ionacia Eranco		nduate leas			la ele

Haga click en Done.

## 2.1. Envío de solicitud de certificado

Abra Safari y diríjase a https://developer.apple.com/



Seleccione la opción *Member Center*, la cual se encuentra en la parte superior derecha de la página.

Escriba el *Apple ID* y el *Password* con los que se registró en el paso 1.

Haga click en Sign In.

00						Mem	ber Center -	Apple Dev	loper							£ 12
+ http	ps://daw.ap	ple.com/cgi-t	in/WebObjec	ts/DSAuthW	eb.woa/wa/I	login?app	oldKey=cdd907	6ec329293	eceabffd	laf0aa8bb31	lfac601c Apple I	nc. C Q	Coogle			
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Haga click en la opción iOS Provisioning Portal.



Haga click en la sección Certificates.

Haga click en el botón *Add Certificate,* el cual se encuentra en la parte superior derecha.



Haga click en el botón Choose File.

00	Apple Developer Connection – iPhone Dev Center – Create Certificate
Devices	Create iPhone Development Certificate
App IDs	The Development Certificate is used to sign a provisioning profile and associate a developer to a registered device. Each member of a team may have only one active Development Certificate. To learn more, visit the How To section.
Provisioning Distribution	How to create a development certificate:         1. Generate a Certificate Signing Request (CSR) with a public key         In your Applications folder, open the Utilities folder and launch Keychain Access.         Choose Keychain Access > Certificate Assistant > Request a Certificate from a Certificate Authority.         In the Certificate Information window, enter or select the following information:         In the User Email Address field, enter your email address         In the Common Name field, enter your name         In the Request is group, select the Saved to disk option         Click Continue
	<ul> <li>The public/private key pair will be generated when you create the Certificate Signing Request (CSR) if you use the Key Chain Assistant to create the CSR.</li> <li>Submit the CSR through the Program Portal to the Admin for approval.</li> <li>Click the Development tab</li> </ul>
	Upload the certificate by choosing the file     Click Submit
	3. You will be notified by email when your CSR has been approved or rejected.
	Choose Fieth no file selected
	Submit

Seleccione el archivo que guardó previamente en el Desktop.

Haga click en Choose.

00	Apple Developer Connection – iPhone Dev Center – Create Certificate
Devices	Create
App IDs Provisioning Distribution	The Development of DEVICES egistered device. Each member of Apple How to cre Divices Disk 
	The cre YPLACES     The credit of the Development tab     Submit     Click the Development tab     Upload the certificate by choosing the file     Click Submit     Submit     The notified by email when your CSR has been approved or rejected.     Choose File no file selected

# Haga click en Submit.

00	Apple Developer Connection - iPhone Dev Center - Create Certificate
Devices	Create iPhone Development Certificate
App IDs Provisioning	The Development Certificate is used to sign a provisioning profile and associate a developer to a registered device. Each member of a team may have only one active Development Certificate. To learn more, visit the How To section.
Distribution	How to create a development certificate: 1. Generate a Certificate Signing Request (CSR) with a public key  • In your Applications folder, open the Utilities folder and launch Keychain Access.
	<ul> <li>Choose Keychain Access &gt; Certificate Assistant &gt; Request a Certificate from a Certificate Authority.</li> </ul>
	<ul> <li>In the Certificate Information window, enter or select the following information:</li> </ul>
	In the User Email Address field, enter your email address
	<ul> <li>In the Common Name field, enter your name</li> </ul>
	In the Request is group, select the Saved to disk option
	Click Continue
	The Certificate Assistant saves a Certificate Signing Request (CSR) file to your Desktop.
	<ul> <li>The public/private key pair will be generated when you create the Certificate Signing Request (CSR) if you use the Key Chain Assistant to create the CSR.</li> </ul>
	<ol> <li>Submit the CSR through the Program Portal to the Admin for approval.</li> <li>Click the Development tab</li> </ol>
	Upload the certificate by choosing the file
	Click Submit
	3. You will be notified by email when your CSR has been approved or rejected.
	Choose File
	Spinit
Contacting "developer.apple	.com"

00	Α	pple Developer Connection	on - iPho	ne Dev Center - Certificat	es	
Cevelope	er Connection				€   AD Dev Centers - ADC	C Member Site   Contact Us
iPhone De	eveloper Program				Welcome, Team Leader	Edit Profile Log out
Program Porta	I: Example Corp, Inc.					Exit Program Portal
Home Team	Development	Distribution	History	How To		
Certificates	Current Develo	opment Certificate	5			Add Certificate
App IDs Provisioning Distribution	This is a list of your o member's name. To it in addition to your de double-click each cen	urrent certificates, which a sarn more, view the How Te velopment certificate, you y tificate to launch Keychain	vill also n Access. TI	o to members of your team eed to download the WWDR hen click 'OK' for each certi	<ol> <li>To download a certificate</li> <li>Intermediate Certificate.</li> <li>ficate.</li> </ol>	e, click the team
	Name	Expiration Date	*	Provisioning Profiles	Status	Actions
	🥃 Team Leader				Pending	

La persona encargada de admonsis debe aprobar su certificado. Para esto, dicha persona debe ingresar al portal de Apple Developer, y aprobar el certificado.

## Click en la sección Certificates.

#### Click en el botón *Approve*.

4						
C Developer (	Connection					ADC Member Site   Contact U
				Dev	v Centers - W	/DC ADC on iTunes Information
iPhone Dev	eloper Progra	im	_	_	_	Welcome, Pat Lee ( Log out
Program Portal						Exit Program Portal
Home						
Team	Development	Distribution	History	How To		
Certificates	Current Dev	elonment Certificate	c			Add Certificate
Devices	current bet	reiopinent certificate	3			
App IDs	This is a list of y	our current certificates, which a	re assigned to m	embers of your tea	m. To download	a Certificate, click the team
Provisioning	includer a namer					
Distribution	In addition to you double-click each	ir development certificate, you h certificate to launch Keychain	will also need to Access. Then cli	download the WWD ck 'OK' for each cer	OR Intermediate C rtificate.	Certificate. After downloading,
	Name	Expiration Date	Provisioning Pro	files	Status	Actions
	🔯 Pat Lee				Pending Approval	Approve Reject

Dado que Apple no notifica cuando un certificado ha sido aprobado, es necesario que la persona encargada de admonsis envíe un correo al estudiante avisándole de la aprobación, para que así este pueda continuar con el proceso.

Una vez el certificado ha sido aprobado:

Haga click en el botón Download.

0.0		A;	ople Developer Connection	- iPhone De	v Center - Certifie	cates		
Cevelope	r Connectio	on				Dev Centers	ADC Member Site   Contact     ADC on iTunes Information	Us
<b>iPhone</b> De	veloper F	program				Welcome, Tean	n Leader Edit Profile Log ou	
Program Porta	l: Example Co	orp, Inc.					Exit Program Portal	
Home Team	De	e o o developer	Downloads _identity-2.cer	0	How To			
Certificates Devices	Curr						Add Certificate	
App IDs Provisioning	This is memb				embers of your te	am. To download a	certificate, click the team	
Distribution	In add double				download the WW k 'OK' for each o	DR Intermediate Co ertificate.	ertificate. After downloading,	
	Name				ng Profiles	Status	Actions	
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There i i de alle e con	ala cam linhana inc	and the second second	term identified for anti- Toron	ala id Miller	100			

Haga doble click en el archivo descargado.

Haga click en OK.

		000	Add Certificates		100	
Phone De	veloper Progra	Castar Do un	want to add the certifi	icate(c) from the l	ime, Team	
ogram Portal	: Example Corp, Inc.	"develo	oper_identity-2.cer" to	a keychain?	ile interiore	Exit Program Portal
me	000					
am	De dev	1.2				
rtificates	Curr		Keychain: log	in	•	Add Certificate
p IDs	This is	(Man Cartificator			wnload a	certificate, click the team
ovisioning	memb	view certificates				
stribution	In add double		_	download the WWD k 'OK' for each cer	R Intermediate Ce tificate.	tificate. After downloading,
	Name			ng Profiles	Status	Actions
	Tear				Issued	Download Revoke
	Clear	1 Download				

El certificado ha sido instalado y se puede ver en la aplicación Keychain Access.

000		Keychain Acc	ess		
Click to lock the	e login keychain.			Q	
Keychains	Apple Worldwid Intermediate certific Expires: Sunday, Feb © This certificate is	e Developer Relation ate authority ruary 14, 2016 10:56: valid	ons Certification Au	thority	
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	▶ 🕎 iPhone Developer: Team Leade	er certificate	Apr 2, 2009 12	login	
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	+ i)		2 items		

## 3. Asignar dispositivo

Si usted quiere desplegar su aplicación en un dispositivo diferente a los que tiene la Universidad en su Laboratorio de Computación Móvil, usted debe realizar este paso, en caso contrario siga al paso 4. Conecte su dispositivo iOS al computador.

Vaya a Applications>Xcode.

Ejecute la aplicación *Xcode* haciendo doble click sobre esta.



Click en el menú Window>Organizer.



Seleccione su dispositivo.

Copie el Identiefier.

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Camilo Restrepo	<u> </u>		Identifier 26db	694886c63	4ac6ade6271e587caa8	0934590							
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iPad 4.3.3 (8J2)													
Device Logs Screenshots	¢	•											
iPhone de Daniel Wil 4.3.5 (8L1)	Add to Portal	Remove											

Envíe este código a su profesor, además del tipo de dispositivo (iPhone, iPod, iPad), la generación (3G, 3GS, 4, 4S) y su login de uniandes. El profesor debe enviar toda esta información a admonsis para que ellos agreguen el dispositivo con un nombre genérico (Ejemplo: iPhone4-mi.franco23).

Click en Devices.

Click en botón *Add Devices*, el cual se encuentra en la parte superior derecha.

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App IDs Provisioning	learn more, view th	e How To tab.	still add 86 out of the maximum 100 o	devices allocated for	r your team. To
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En el campo *Device Name* se debe ingresar el nombre del dispositivo (por ejemplo iPhone4-mi.franco23).

En el campo *Device ID* se debe ingresar el código suministrado por el estudiante.

Click en Submit.



## 4. Crear App ID

Ya existen algunos App ID creados, los cuales a la fecha de la creación de este tutorial funcionan sin ningún problema. En particular, se recomienda usar el App ID de nombre *SuIT* para los proyectos de la materia Construcción de Aplicaciones Móviles.



## 5. Crear Provisioning Profile

Ya existen algunos Provisioning Profile creados, los cuales a la fecha de la creación de este tutorial funcionan sin ningún problema. En particular, se recomienda usar el Provisioning Profile de nombre LabMoviles (asociado al App ID de nombre *SuIT y* a los dispositivos con los que cuenta la Universidad) para los proyectos de la materia Construcción de Aplicaciones Móviles.

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La persona encargada de admonsis puede hacer click en *Provisioning,* y hacer click en el botón *Edit* correspondiente al Provisioning Profile de nombre LabMoviles.

00	Apple	Developer Connection	- iPhone De	v Center - Provisioning Profiles		
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iPhone De	eveloper Program			Welcome, To	eam Leader 🛛 Eo	lit Profile Log out
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Home Team Certificates Devices	Development	Distribution Provisioning Prof	History	How To		Add Profile
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Provisioning Distribution	My First Development Provisioning Profile	1	2	SHUG6SJP92.com.domainname.appl	Active until 10/02/2009	Download Edit

Una vez allí, puede agregar el certificado y el dispositivo (en caso de que lo tenga) del estudiante.

rogram Portal:	Example Corp, Inc.			Exit Program Portal
ome eam ertificates evices pp IDs	Development Create iPhone I Generate provisioning	Distribution History Development Provisioning Prof profiles here. To learn more, visit the How To	How To	
istribution	Profile Name	My First Development Provisioning Profile		
	Certificates	🗹 Team Leader		
	App ID	App ID Name		
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		🗹 Johnny Appleseed's iPhone	🗹 My Development iPod touch	
				Cancel Submit

El encargado de admonsis debería avisar al estudiante vía correo electrónico que ya puede descargar el Provisioning Profile de nombre LabMoviles en su dispositivo. Actualmente, este Provisioning Profile se encuentra instalado en los 3 iPhone y los 2 iPad con los que cuenta la Universidad.

#### 6. Instalar Provisioning Profile

Si usted va a desplegar su aplicación en uno de los dispositivos de la Universidad, en principio usted no debería tener que realizar este paso. Intente desplegar la aplicación en el dispositivo. Si todavía no puede, siga los siguientes pasos.

Una vez el Provisioning Profile cuyo nombre es LabMoviles tiene registrado el certificado y el dispositivo del estudiante, este debe:

Hacer click en Provisioning.

Hacer click en el botón *Download* correspondiente al Provisioning Profile de nombre LabMoviles.

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		IPOD Grupo Videojuegos	VV42E8H2K7.*	Active	Download	
		LabMoviles	HFLQ3X4V5R.*	Active	Download	
		Profile iphone pfiguero	HFLQ3X4V5R.*	Expired	Download	
		IOS Team Provisioning Profile: *	HFLQ3X4V5R.*	Active • Managed by Xcode	Download	
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Una vez ha descargado el Provisioning Profile, lo debe arrastrar al dispositivo.

Abra *Xcode.* 

Seleccione su dispositivo.

Seleccione la sección de Provisioning Profiles.

Arrastre el archivo que descargó en el *Desktop* a esta sección.

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Si el status de su Provisioning Profile es *Valid Profile,* usted ya puede hacer el despliegue de su aplicación en el dispositivo. En caso contario:

Haga click derecho en la sección Provisioning Profiles.

Haga click en la opción Copy Device Identifier.

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iPhone de Daniel Wil 4.3.5 (8L1)	Add Delete						

Si el status de su Provisioning Profile no se actualiza a *Valid Profile,* intente hacer click en la opción *Add Device to Provisioning Portal*. Si el status no se actualiza, contacte al personal de admonsis.