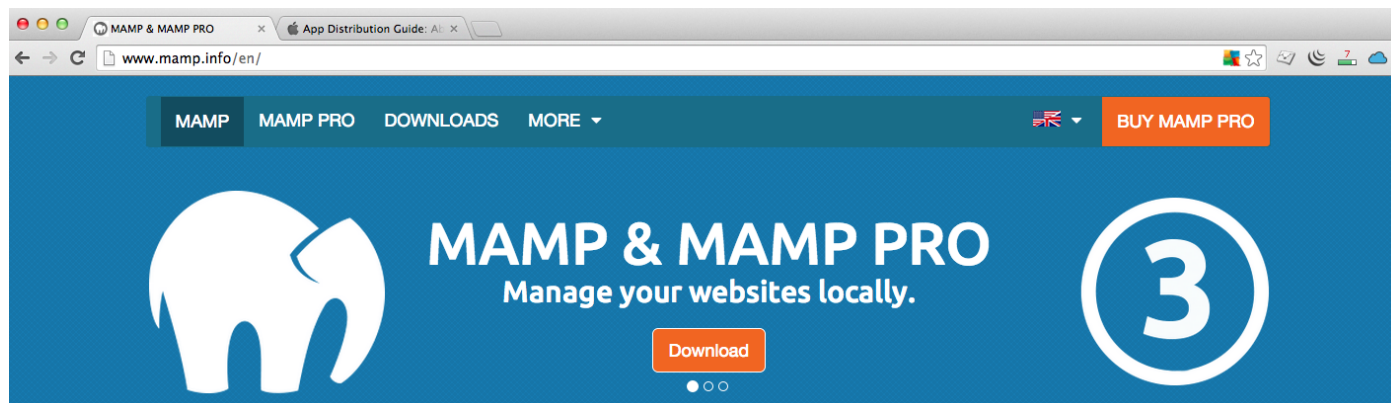


iPhone Apps Development using Objective C & Xcode (Lesson 8)

By Dannis Mok

Build an App to access Internet Data

- Download and install MAMP to build a local web server.

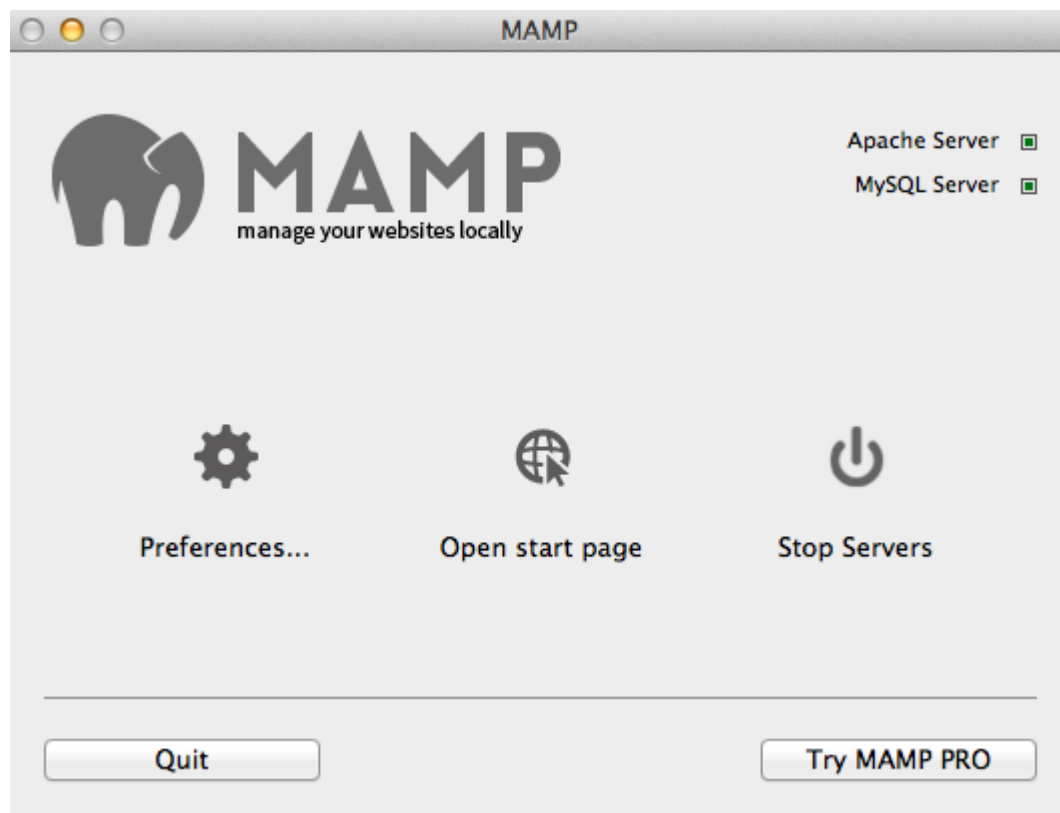


MAMP: My Apache – MySQL – PHP
For OS X and Windows



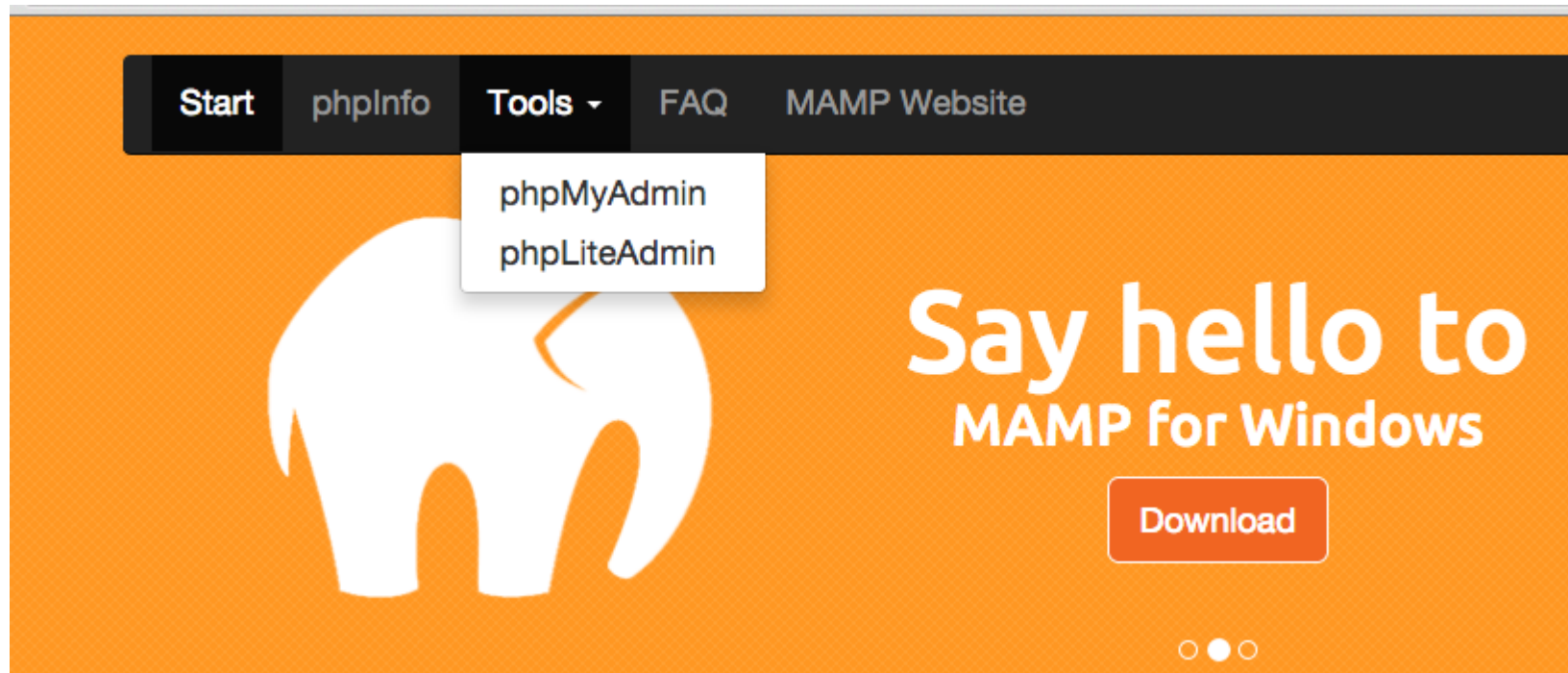
MAMP Server Setup

- MAMP Server is running on port 8888 and use the Panel to control its running status



MAMP Server

- Can use the phpMyAdmin tool to create the database on the server



MAMP Server Setup

- A sample database called mydb is built as follows. It has a table called student.

Server: localhost:8889 » Database: mydb » Table: student

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index
2	name	varchar(20)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index
3	email	varchar(30)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index
4	photo	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index

Check All With selected: Browse Change Drop Primary Unique Index

Print view Relation view Propose table structure Move columns

Add 1 column(s) At End of Table At Beginning of Table After id Go

+ Indexes

Information

Space usage		Row statistics	
Data	16 KiB	Format	Compact
Index	0 B	Collation	latin1_swedish_ci
Total	16 KiB	Next autoindex	7
		Creation	Oct 05, 2014 at 02:56 PM

MAMP Server Setup

- It has some sample records

Server: localhost:8889 » Database: mydb » Table: student

Showing rows 0 - 5 (6 total, Query took 0.0003 sec)

SELECT * FROM `student`

Number of rows: 25

Sort by key: None

+ Options

				id	name	email	photo
☐	Edit	Copy	Delete	1	Peter	peter@eee.com	face1.jpg
☐	Edit	Copy	Delete	2	John	john@eee.com	face2.jpg
☐	Edit	Copy	Delete	3	tom	tom@eee.com	face3.jpeg
☐	Edit	Copy	Delete	4	dicky	dicky@eee.com	face4.jpeg
☐	Edit	Copy	Delete	5	Marcus	marcus@eee.com	face5.jpeg
☐	Edit	Copy	Delete	6	Janice	janice@eee.com	face6.jpeg

Check All With selected: Change Delete Export

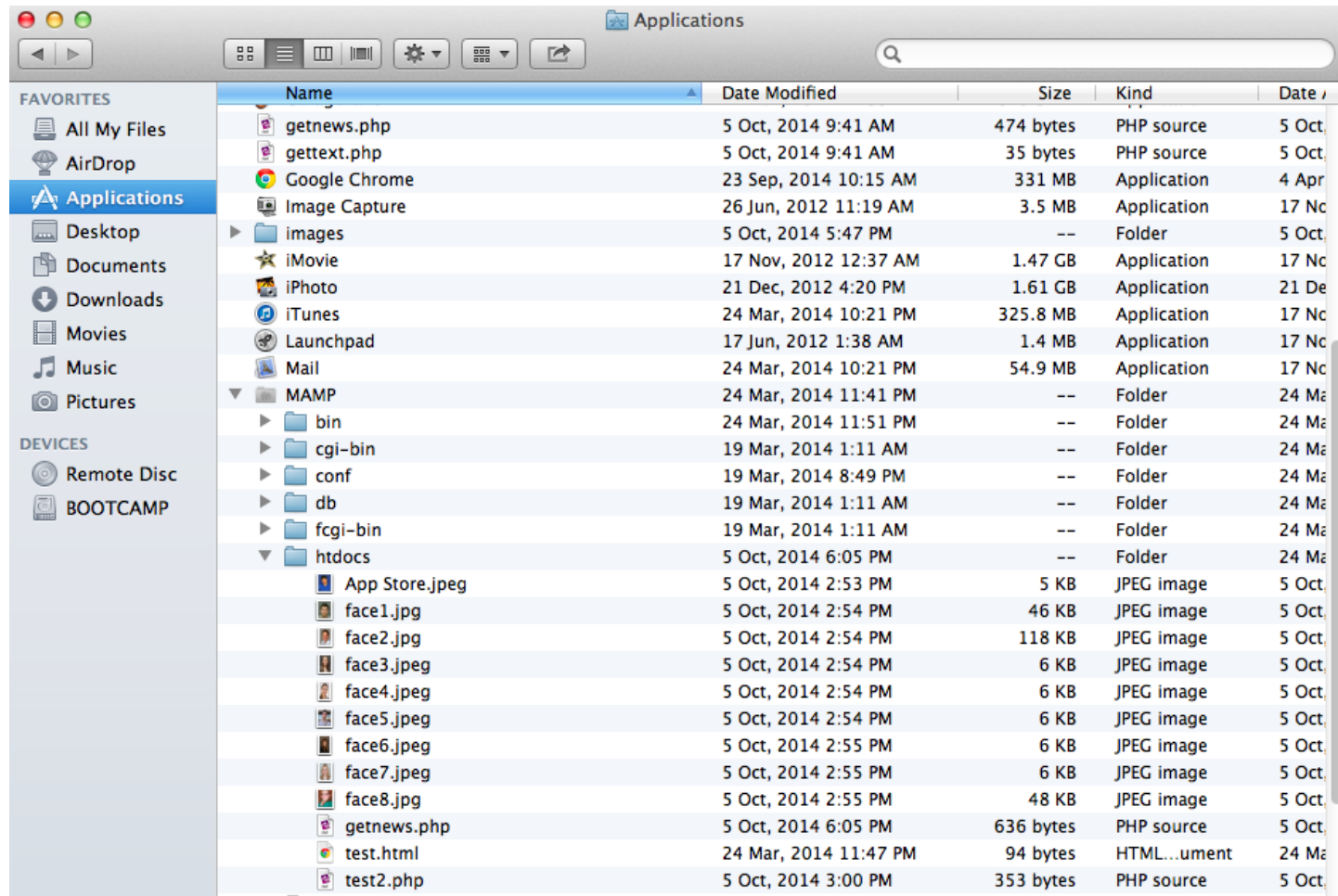
Number of rows: 25

Query results operations

Print view Print view (with full texts) Export Display chart Create view

MAMP Server Setup

- Put some images into the root folder



MAMP Server Setup

- Write a PHP script to output the table in JSON format.

```
1 <?php
2 |
3     $id = $_GET['id'];
4
5     $con = mysql_connect("localhost","root","root");
6
7     mysql_select_db("mydb",$con);
8
9     if(isset($id)) {
10
11         $sql = "Select * from student where id=" . $id;
12
13     } else {
14
15         $sql = "Select * from student";
16     }
17
18     $result = mysql_query($sql,$con);
19
20     $rows = array();
21
22     while($row = mysql_fetch_assoc($result)) {
23
24         $rows[] = $row;
25
26         //      echo $row['id'] . " " . $row['name'] . " " .
27         $row['email'] . " <img src='$row[photo]' width='200px' height='200px' /
28         ><p>";
29
30     }
31
32     echo json_encode($rows);
33 ?>
```

MAMP Server Setup

- JSON output



```
[{"id": "1", "name": "Peter", "email": "peter@eee.com", "photo": "face1.jpg"}, {"id": "2", "name": "John", "email": "john@eee.com", "photo": "face2.jpg"}, {"id": "3", "name": "tom", "email": "tom@eee.com", "photo": "face3.jpeg"}, {"id": "4", "name": "dicky", "email": "dicky@eee.com", "photo": "face4.jpeg"}, {"id": "5", "name": "Marcus", "email": "marcus@eee.com", "photo": "face5.jpeg"}, {"id": "6", "name": "Janice", "email": "janice@eee.com", "photo": "face6.jpeg"}]
```



- Normal output

1 Peter peter@eee.com face1.jpg



2 John john@eee.com face2.jpg



JSON reference

w3schools.com

HOME HTML CSS JAVASCRIPT SQL PHP JQUERY ANGULAR BOOTSTRAP XML ASP.NET MORE... REFERENCES | EXAMPLES

JSON Tutorial

JSON HOME
JSON Intro
JSON Syntax
JSON HowTo
JSON Http
JSON Files
JSON Example

Google AdWords™ HK

google.com

Official Free Support from Google™. Start Now and Save HK\$400!



JSON Tutorial

« W3Schools Home Next Chapter »



JSON: JavaScript Object Notation.

JSON is a **syntax** for storing and exchanging data.

JSON is an **easier to use** alternative to XML.

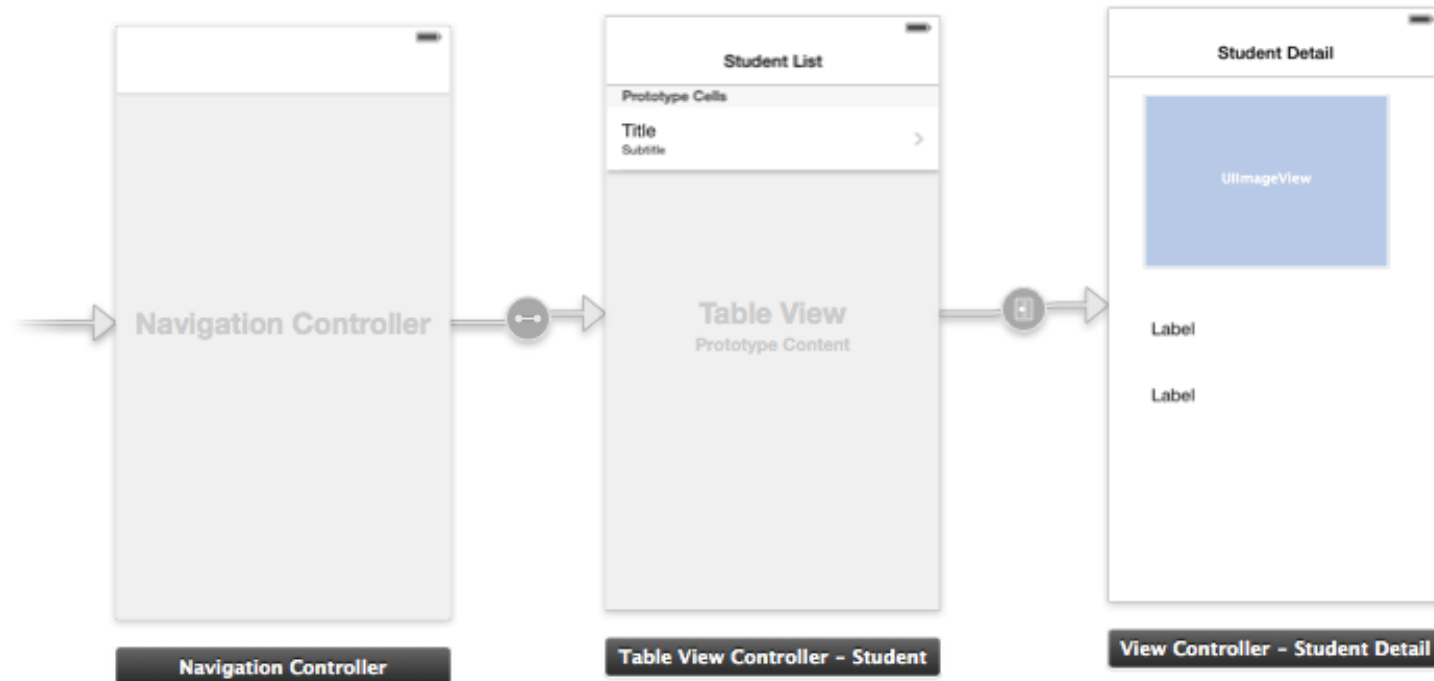
This JSON syntax defines an employees object, with an array of 3 employee records (objects):

JSON Example

```
{ "employees": [  
  { "firstName": "John", "lastName": "Doe" },  
  { "firstName": "Anna", "lastName": "Smith" },  
  { "firstName": "Peter", "lastName": "Jones" }  
]}
```

Apps for accessing Internet Data

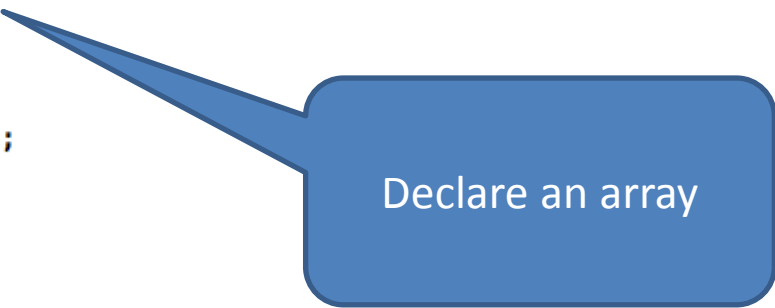
- Create a new Project and build the storyboard as follows. Do the necessary setup



Apps for accessing Internet Data

- Add a mutable array in TableViewController

```
//  
// TableViewController.h  
// WebAccess8  
//  
// Created by Dannis Mok on 7/10/14.  
// Copyright (c) 2014 com.uec. All rights reserved.  
//  
  
#import <UIKit/UIKit.h>  
  
@interface TableViewController : UITableViewController {  
  
    NSMutableArray *students;  
}  
  
@property NSMutableArray *students;  
  
@end
```



Declare an array

Apps for accessing Internet Data

```

- (void)viewDidLoad
{
    [super viewDidLoad];

    students = [[NSMutableArray alloc] init];

    NSURL *myURL = [NSURL URLWithString:@"http://localhost:8888/getnews.php"];

    NSMutableURLRequest *request = [NSMutableURLRequest requestWithURL:myURL cachePolicy:
        NSURLRequestReloadIgnoringLocalCacheData timeoutInterval:60];

    [NSURLConnection sendAsynchronousRequest:request queue:[NSOperationQueue mainQueue]
        completionHandler:^(NSURLResponse *response, NSData *data, NSError *
            error) {

            NSLog(@"Finished with status |code: %i", [(NSHTTPURLResponse *)
                response statusCode]);
            id jsonObject = [NSJSONSerialization JSONObjectWithData:data
                options:NSJSONReadingAllowFragments error:nil];

            NSLog(@"jsonObject=%@", jsonObject);
            students = [jsonObject mutableCopy];
            [self.tableView reloadData];
        }];

    NSLog(@"myURL=%@", myURL);
}

```

Type the location

Use asynchronous
request to
download data

Apps for accessing Internet Data

- Modify the TableView related methods

```
#pragma mark - Table view data source
```

```
- (NSInteger)numberOfSectionsInTableView:(UITableView *)tableView  
{  
#warning Potentially incomplete method implementation.  
    // Return the number of sections.  
    return 1;  
}
```

Change to 1

```
- (NSInteger)tableView:(UITableView *)tableView numberOfRowsInSectionSection:(NSInteger)section  
{  
#warning Incomplete method implementation.  
    // Return the number of rows in the section.  
    NSLog(@"%d",[students count]);  
    return [students count];  
}
```

Change to the array size

Apps for accessing Internet Data

```
- (UITableViewCell *)tableView:(UITableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)
indexPath
{
    UITableViewCell *cell = [tableView dequeueReusableCellWithIdentifier:@"Cell" forIndexPath:
indexPath];

    id obj = [students objectAtIndex:indexPath.row];

    cell.textLabel.text = [obj valueForKey:@"name"];
    cell.detailTextLabel.text = [obj valueForKey:@"email"];

    NSMutableString *webpath = [NSMutableString stringWithString: @"http://localhost:8888/"];
    [webpath appendString: [obj valueForKey:@"photo"]];

    NSURL *myurl = [NSURL URLWithString:webpath];

    NSData *mydata = [NSData dataWithContentsOfURL:myurl];

    UIImage *myImage = [UIImage imageWithData:mydata];
    cell.imageView.image = myImage;

    return cell;
}
```

Modify to access data
from the array and
access the photo from
the Internet for each
cell

Apps for accessing Internet Data

#pragma mark - Navigation

```
// In a storyboard-based application, you will often want to do a little preparation before
// navigation
- (void)prepareForSegue:(UIStoryboardSegue *)segue sender:(id)sender
{
    // Get the new view controller using [segue destinationViewController].
    // Pass the selected object to the new view controller.

    if ([segue.identifier isEqualToString:@"segueToDetail"]) {
        NSIndexPath *indexPath = [self.tableView indexPathForSelectedRow];
        UIViewController *destViewController = segue.destinationViewController;

        id obj = [students objectAtIndex:indexPath.row];
        destViewController.name = [obj valueForKey:@"name"];
        destViewController.email = [obj valueForKey:@"email"];

        NSMutableString *webpath = [NSMutableString stringWithString: @"http://localhost:8888/"];
        [webpath appendString: [obj valueForKey:@"photo"]];

        NSURL *myurl = [NSURL URLWithString:webpath];

        NSData *mydata = [NSData dataWithContentsOfURL:myurl];

        UIImage *myImage = [UIImage imageWithData:mydata];

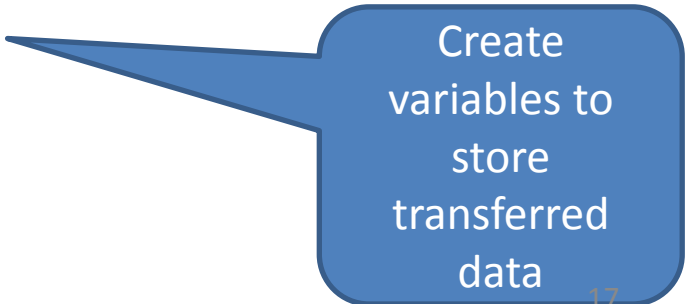
        destViewController.image = myImage;
    }
}
```

Modify to pass data
to the
DetailViewController

Apps for accessing Internet Data

- Setup the variables in the DetailViewController

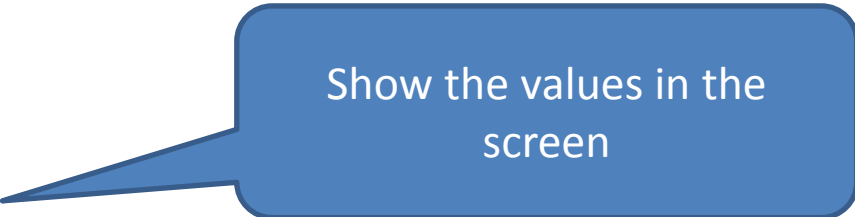
```
//  
// ViewController.h  
// WebAccess8  
//  
// Created by Dannis Mok on 7/10/14.  
// Copyright (c) 2014 com.uec. All rights reserved.  
//  
  
#import <UIKit/UIKit.h>  
  
@interface ViewController : UIViewController  
  
@property (weak, nonatomic) IBOutlet UIImageView *myImageView;  
  
@property (weak, nonatomic) IBOutlet UILabel *nameLabel;  
  
@property (weak, nonatomic) IBOutlet UILabel *emailLabel;  
  
@property (weak, nonatomic) NSString *name;  
@property (weak, nonatomic) NSString *email;  
@property (weak, nonatomic) UIImage *image;  
  
@end
```



Create
variables to
store
transferred
data

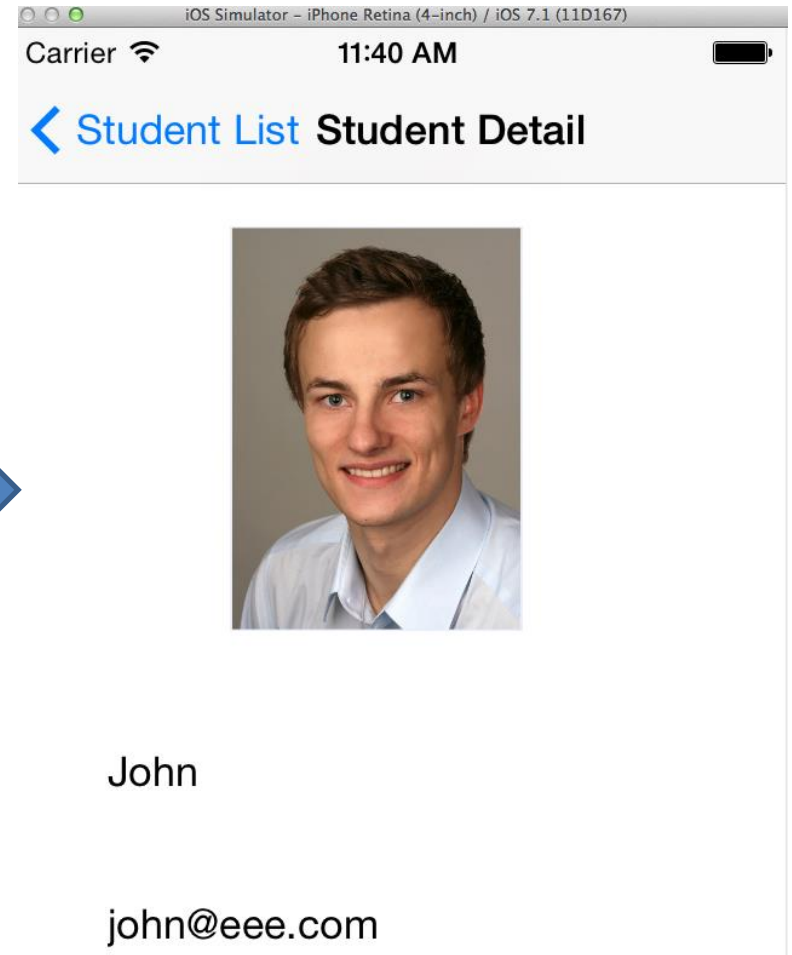
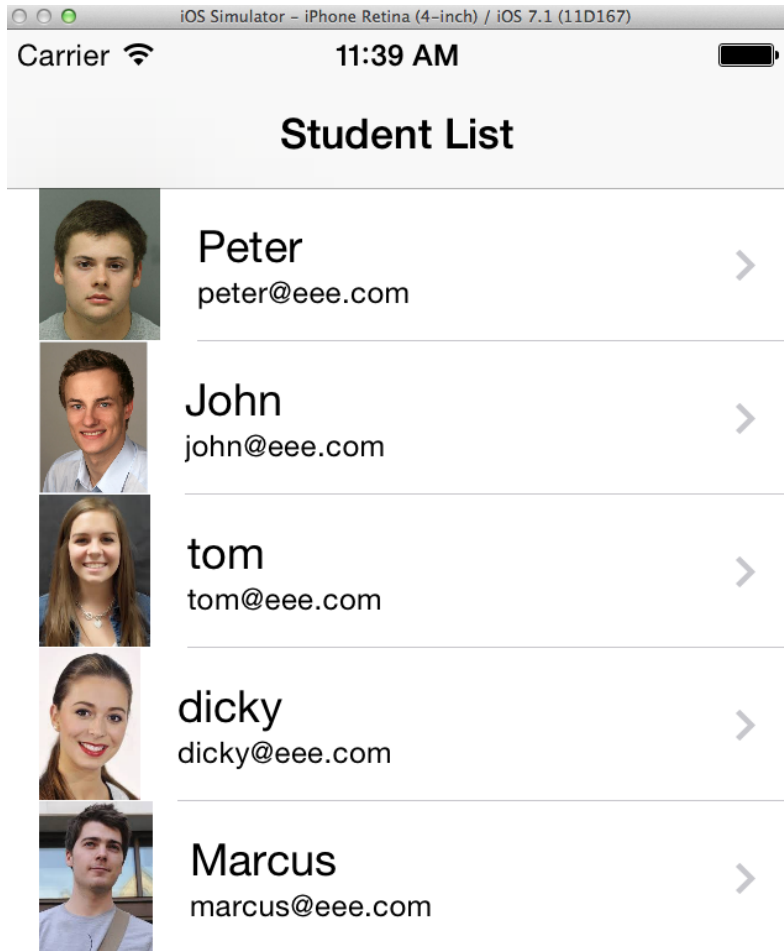
Apps for accessing Internet Data

```
//  
// ViewController.m  
// WebAccess8  
//  
// Created by Dannis Mok on 7/10/14.  
// Copyright (c) 2014 com.uec. All rights reserved.  
//  
  
#import "ViewController.h"  
  
@interface ViewController ()  
  
@end  
  
@implementation ViewController  
  
- (id)initWithNibName:(NSString *)nibNameOrNil bundle:(NSBundle *)nibBundleOrNil  
{  
    self = [super initWithNibName:nibNameOrNil bundle:nibBundleOrNil];  
    if (self) {  
        // Custom initialization  
    }  
    return self;  
}  
  
- (void)viewDidLoad  
{  
    [super viewDidLoad];  
  
    self.nameLabel.text = self.name;  
  
    self.emailLabel.text = self.email;  
  
    [self.myImageView setImage:self.image];  
}  
}
```



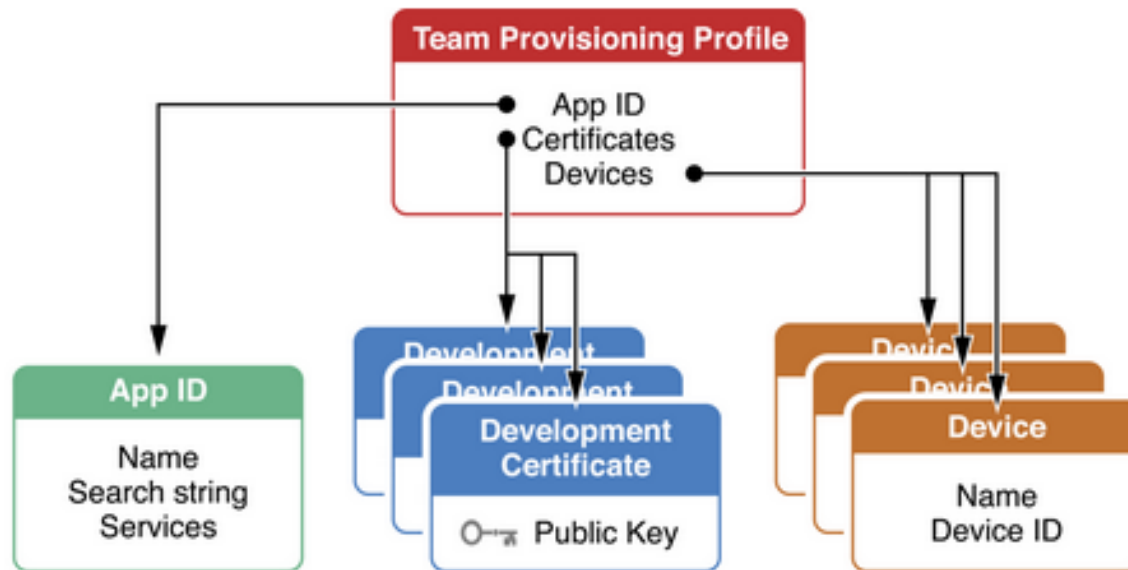
Show the values in the
screen

Apps for accessing Internet Data



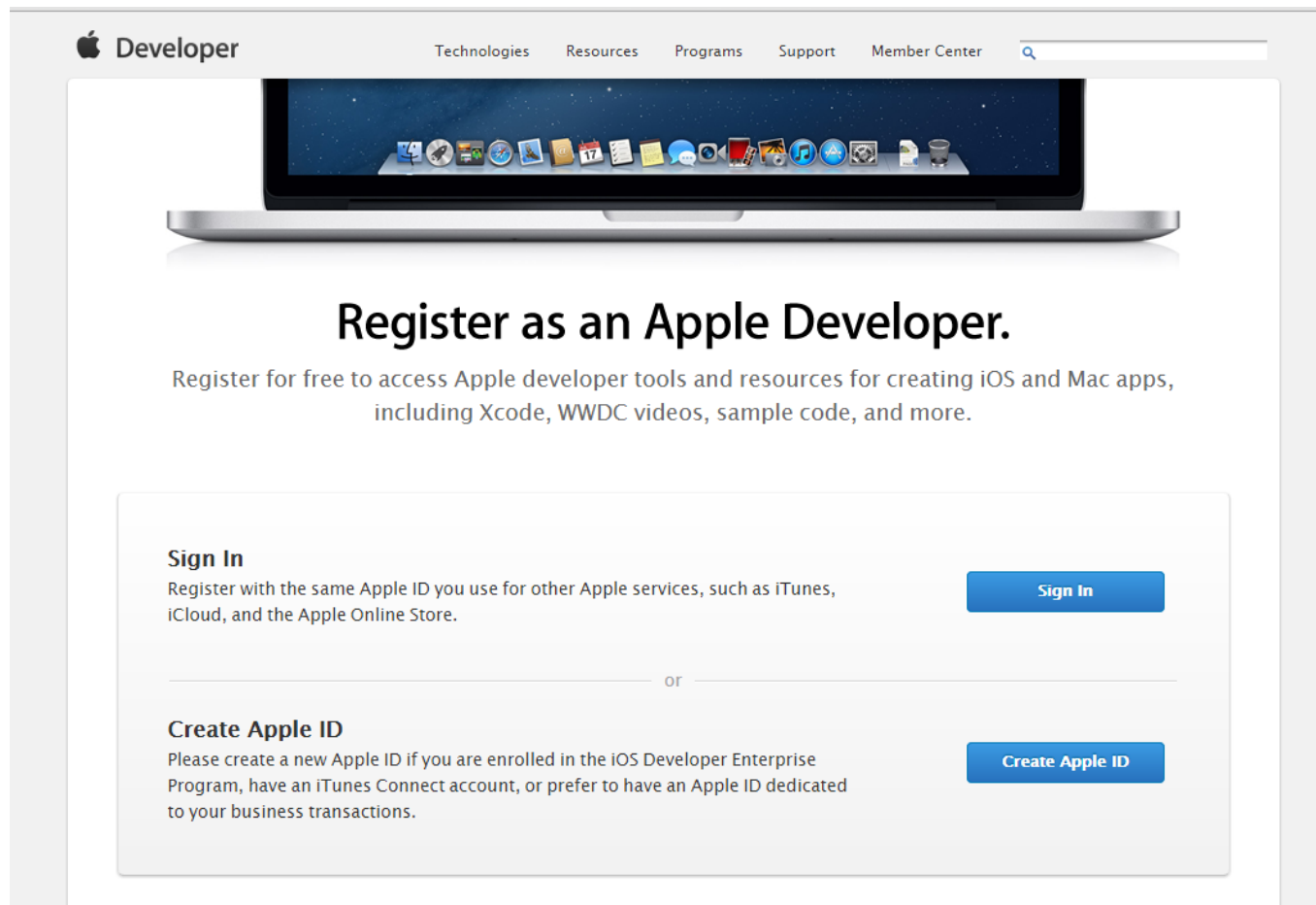
Deploy apps to real device

- Need to create a provisioning profile which contains the certificate, device id and app id and then install it onto the device



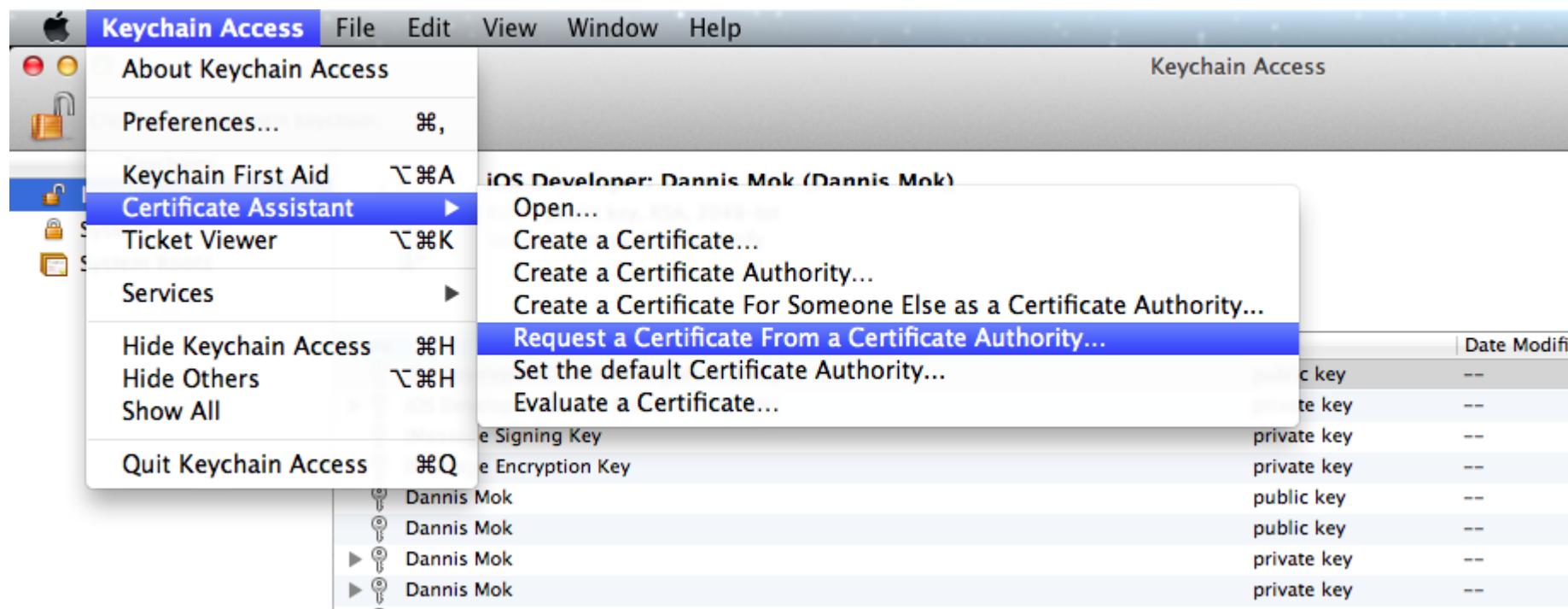
Deploy apps to real device

- Need to pay US\$99 to become an Apple Developer (developer.apple.com).

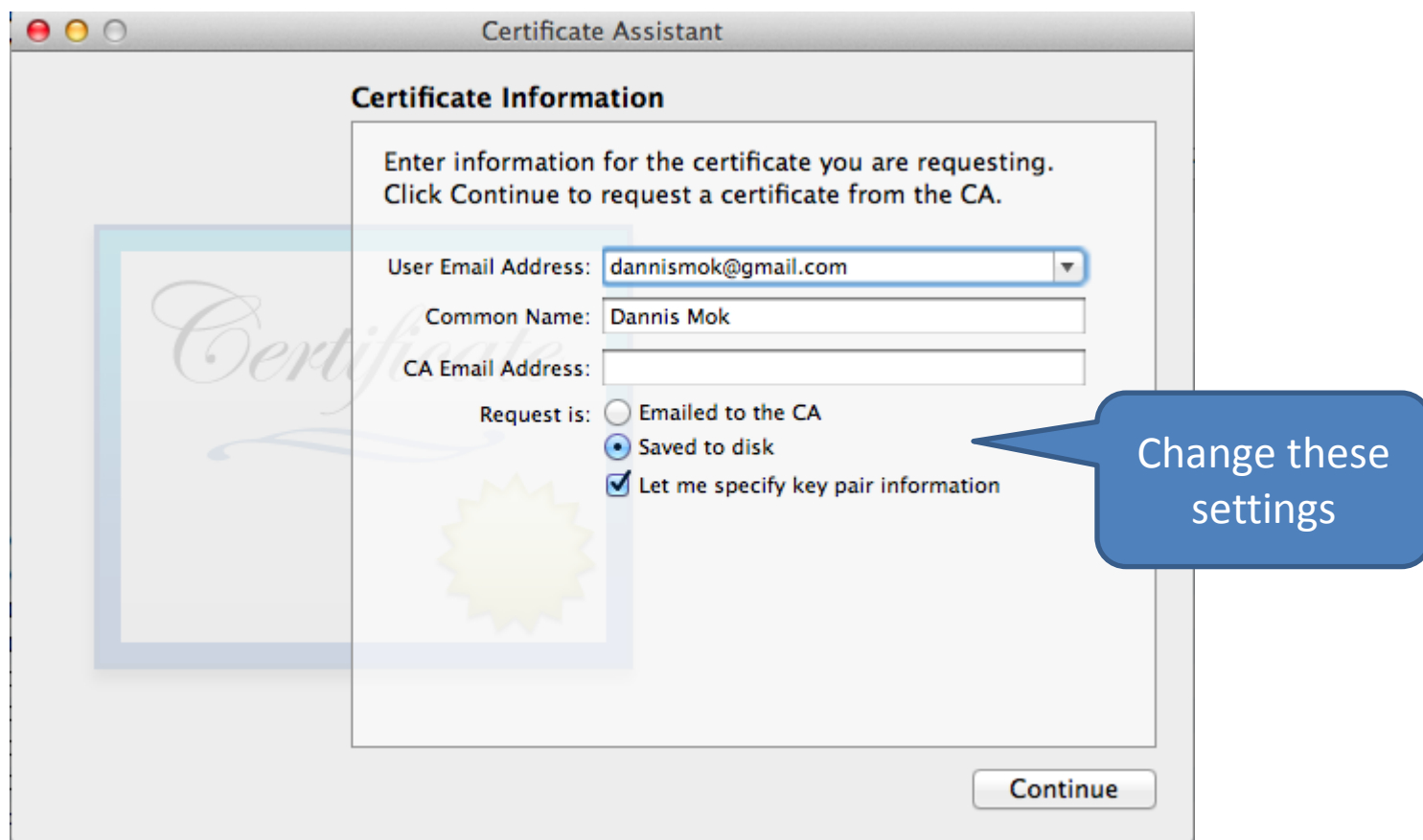


Deploy apps to real device

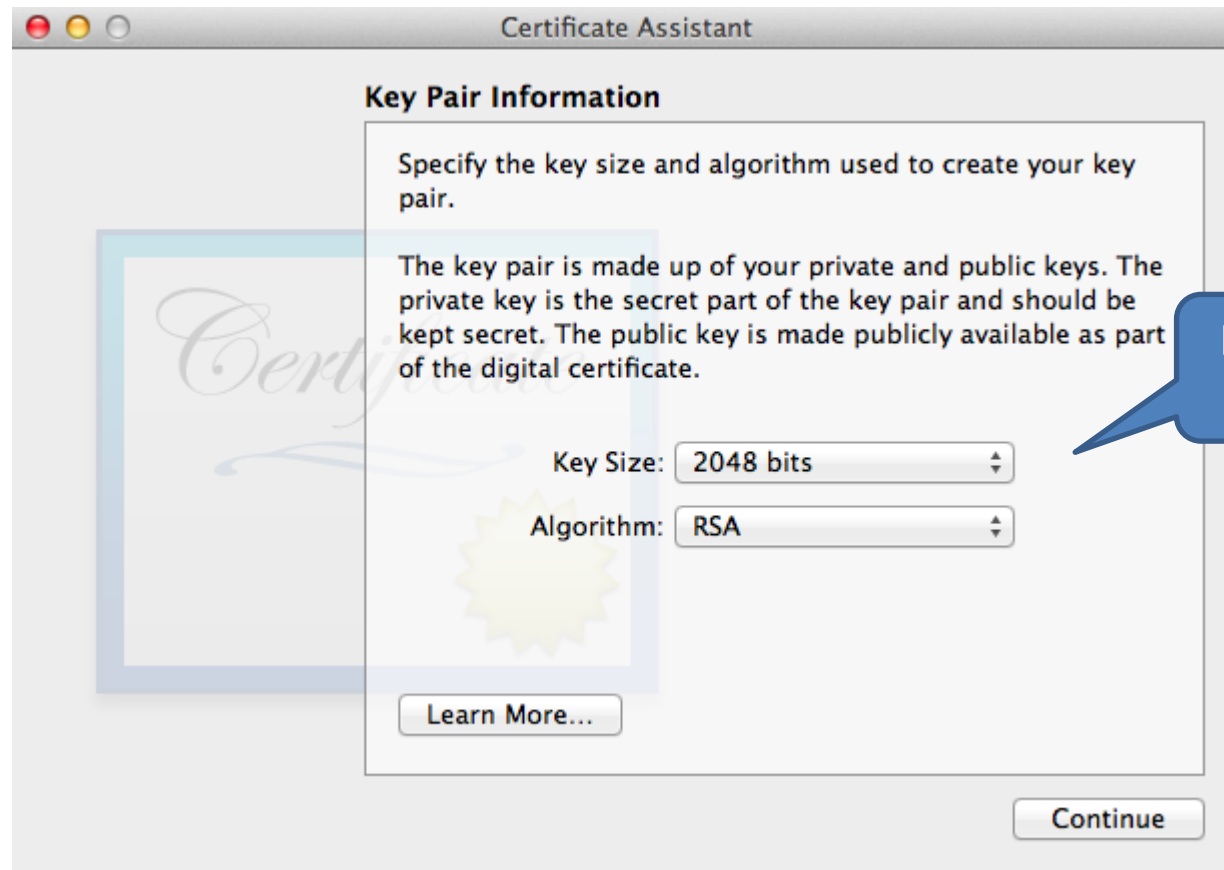
- Use the KeyChain tool to create a Certificate Request and then submit to Apple for applying signed digital certificate.



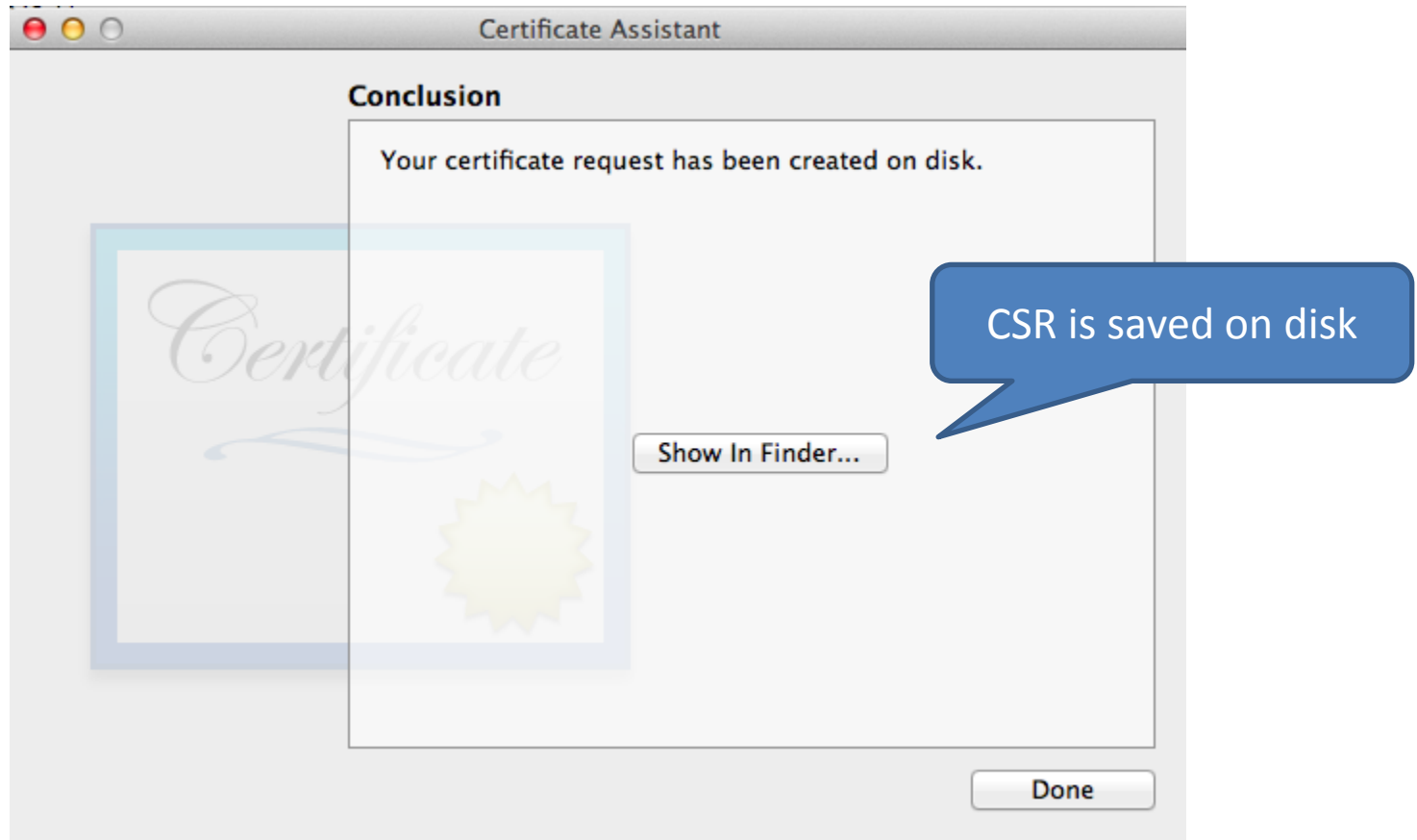
Deploy apps to real device



Deploy apps to real device

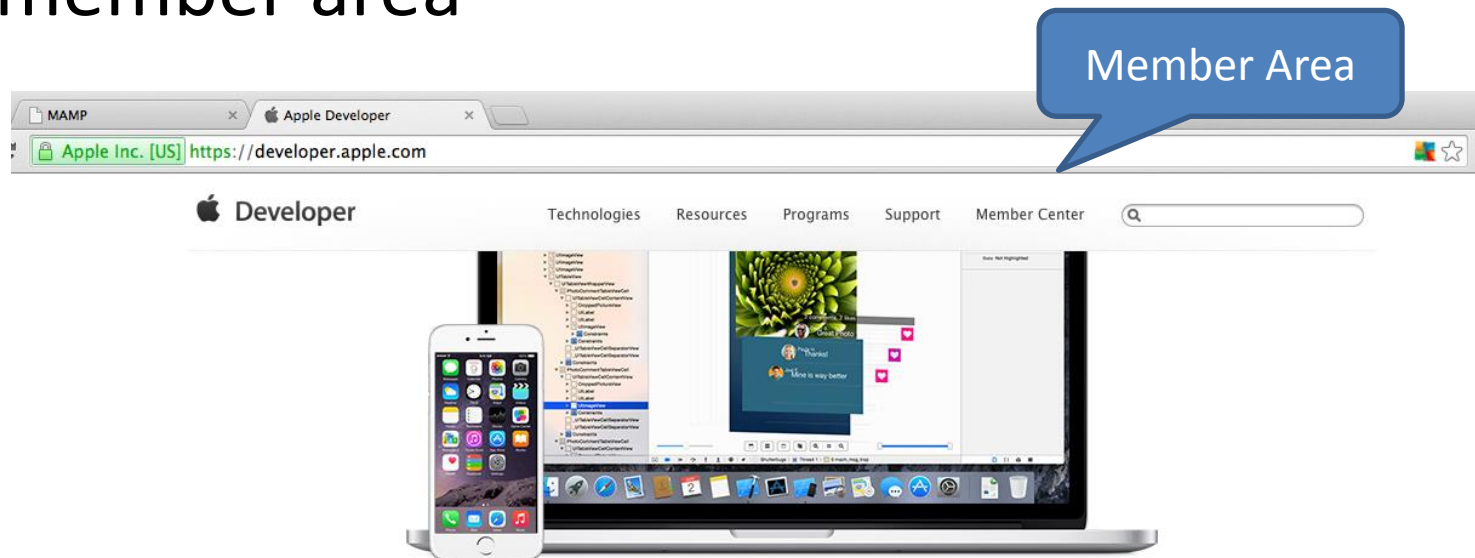


Deploy apps to real device



Deploy apps to real device

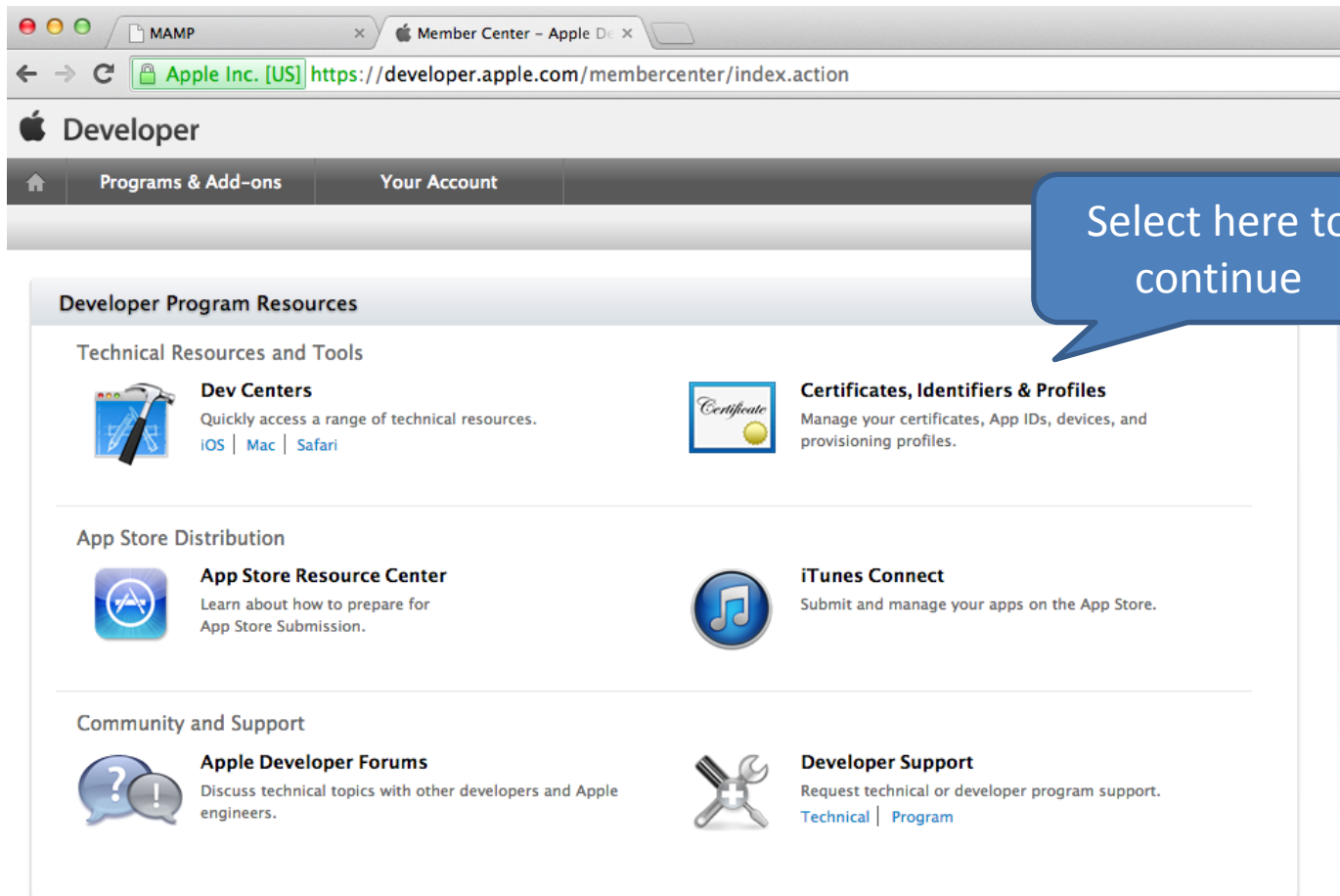
- Go to the developer.apple.com to login the member area



See what's new for developers.

Learn about all the new technologies and powerful capabilities available in iOS 8, OS X Yosemite, and the new programming language, Swift, available in Xcode 6.

Deploy apps to real device



The screenshot shows the Apple Developer Member Center interface. The browser tab is 'Member Center - Apple Developer' and the address bar shows 'https://developer.apple.com/membercenter/index.action'. The page has a navigation bar with 'Developer' and links for 'Programs & Add-ons' and 'Your Account'. The main content area is titled 'Developer Program Resources' and is organized into three sections: 'Technical Resources and Tools', 'App Store Distribution', and 'Community and Support'. Each section contains two links with icons and descriptions. A blue callout bubble with the text 'Select here to continue' points to the 'Certificates, Identifiers & Profiles' link in the 'Technical Resources and Tools' section.

Developer Program Resources

Technical Resources and Tools

- Dev Centers**
Quickly access a range of technical resources.
[iOS](#) | [Mac](#) | [Safari](#)
- Certificates, Identifiers & Profiles**
Manage your certificates, App IDs, devices, and provisioning profiles.

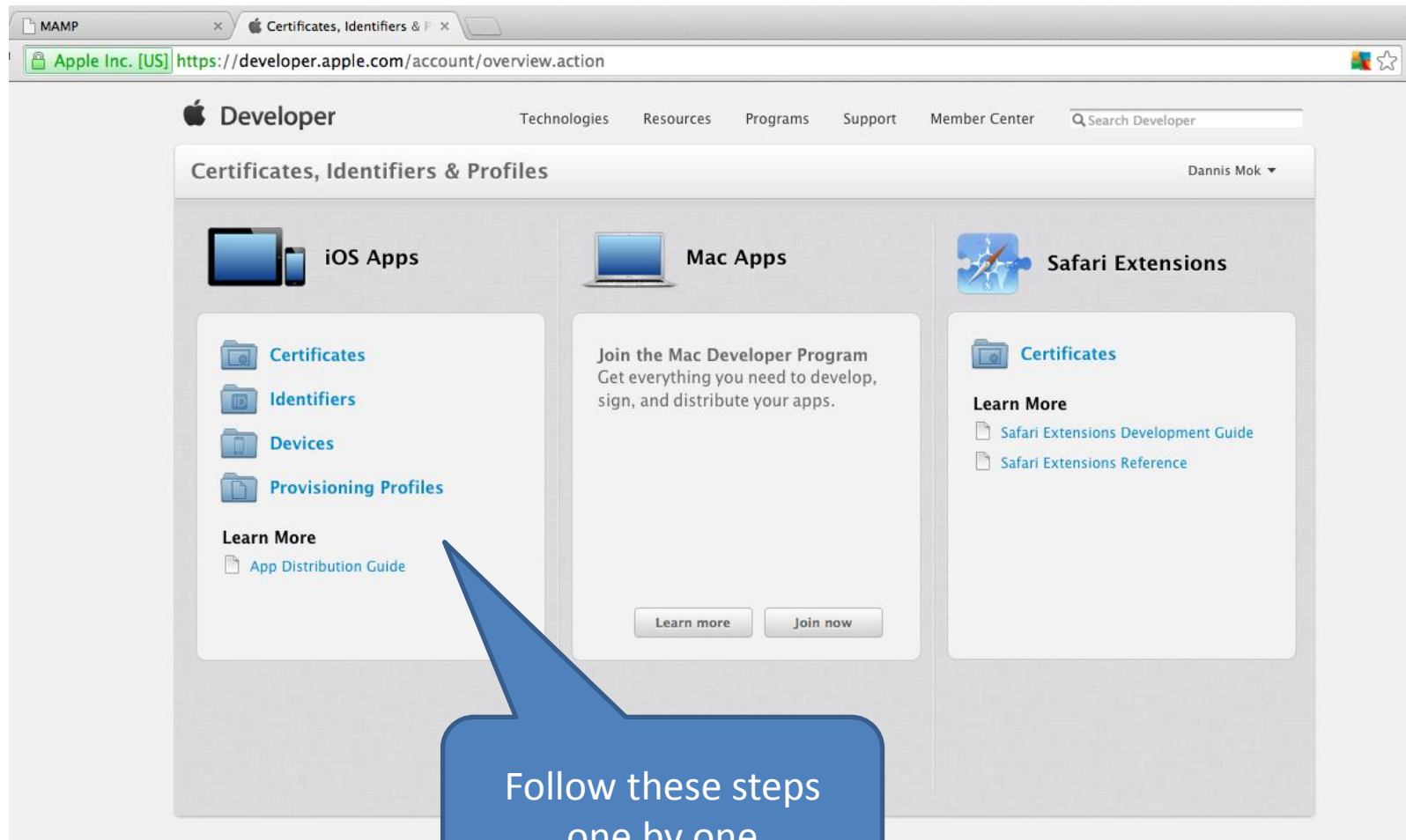
App Store Distribution

- App Store Resource Center**
Learn about how to prepare for App Store Submission.
- iTunes Connect**
Submit and manage your apps on the App Store.

Community and Support

- Apple Developer Forums**
Discuss technical topics with other developers and Apple engineers.
- Developer Support**
Request technical or developer program support.
[Technical](#) | [Program](#)

Deploy apps to real device



Deploy apps to real device

The screenshot shows the Apple Developer account page for 'Dannis Mok'. The page is titled 'Certificates, Identifiers & Profiles'. On the left sidebar, there are sections for 'iOS Apps', 'Certificates', 'Identifiers', 'Devices', and 'Provisioning Profiles'. The 'Certificates' section is selected, and a dropdown menu shows 'iOS Apps'. The main content area is titled 'iOS Certificates' and shows '4 Certificates Total'. A table lists the certificates with columns for Name, Type, and Expires. A blue callout bubble points to the '+' button in the top right corner of the table, with the text 'Add a new certificate'.

Name	Type	Expires
Dannis Mok	iOS Distribution	Mar 31, 2015
Dannis Mok	iOS Development	Mar 31, 2015
Dannis Mok	iOS Distribution	Jul 31, 2015
Dannis Mok	iOS Development	Oct 07, 2015

Deploy apps to real device

The screenshot shows the Apple Developer portal interface for adding an iOS certificate. The left sidebar contains navigation links for Certificates, Identifiers, Devices, and Provisioning Profiles. The main content area is titled 'Add iOS Certificate' and includes a progress bar with steps: Select Type, Request, Generate, and Download. Under the 'Select Type' step, there are two main sections: Development and Production. The Development section has two radio button options: 'iOS App Development' (which is selected and highlighted by a blue callout bubble with the text 'Select this') and 'Apple Push Notification service SSL (Sandbox)'. The Production section has one radio button option: 'App Store and Ad Hoc'.

Apple Developer

Technologies Resources Programs Support Member Center Search Developer

Certificates, Identifiers & Profiles

Dannis Mok

iOS Apps

Certificates

- All
- Pending**
- Development
- Production

Identifiers

- App IDs
- Pass Type IDs
- Website Push IDs
- iCloud Containers
- App Groups
- Merchant IDs

Devices

- All

Provisioning Profiles

- All
- Development

Add iOS Certificate

Select Type Request Generate Download

What type of certificate do you need?

Development

- ☒ **iOS App Development**
Sign development versions of your iOS app.
- ☐ **Apple Push Notification service SSL (Sandbox)**
Establish connectivity between your notification server and the Apple Push Notification service sandbox environment. A separate certificate is required for each app you develop.

Production

- ☐ **App Store and Ad Hoc**
Sign your iOS app for submission to the App Store or for Ad Hoc distribution.

Select this

Deploy apps to real device

The screenshot shows the Apple Developer portal interface for adding an iOS certificate. The left sidebar contains navigation links for Certificates, Identifiers, Devices, and Provisioning Profiles. The main content area is titled 'Add iOS Certificate' and shows a progress bar with steps: Select Type, Request, Generate (current), and Download. The 'Generate' step is active, displaying instructions on how to generate a certificate and upload a CSR file. A blue callout bubble points to the 'Choose File...' button, with the text 'Upload the CSR'.

Apple Developer Technologies Resources Programs Support Member Center Search Developer

Certificates, Identifiers & Profiles Dannis Mok

iOS Apps

Certificates

- All
- Pending**
- Development
- Production

Identifiers

- App IDs
- Pass Type IDs
- Website Push IDs
- iCloud Containers
- App Groups
- Merchant IDs

Devices

- All

Provisioning Profiles

- All
- Development

Add iOS Certificate + 🔍

Select Type Request **Generate** Download

 **Generate your certificate.**

With the creation of your CSR, Keychain Access simultaneously generated a public and private key pair. Your private key is stored on your Mac in the login Keychain by default and can be viewed in the Keychain Access application under the "Keys" category. Your requested certificate will be the public half of your key pair.

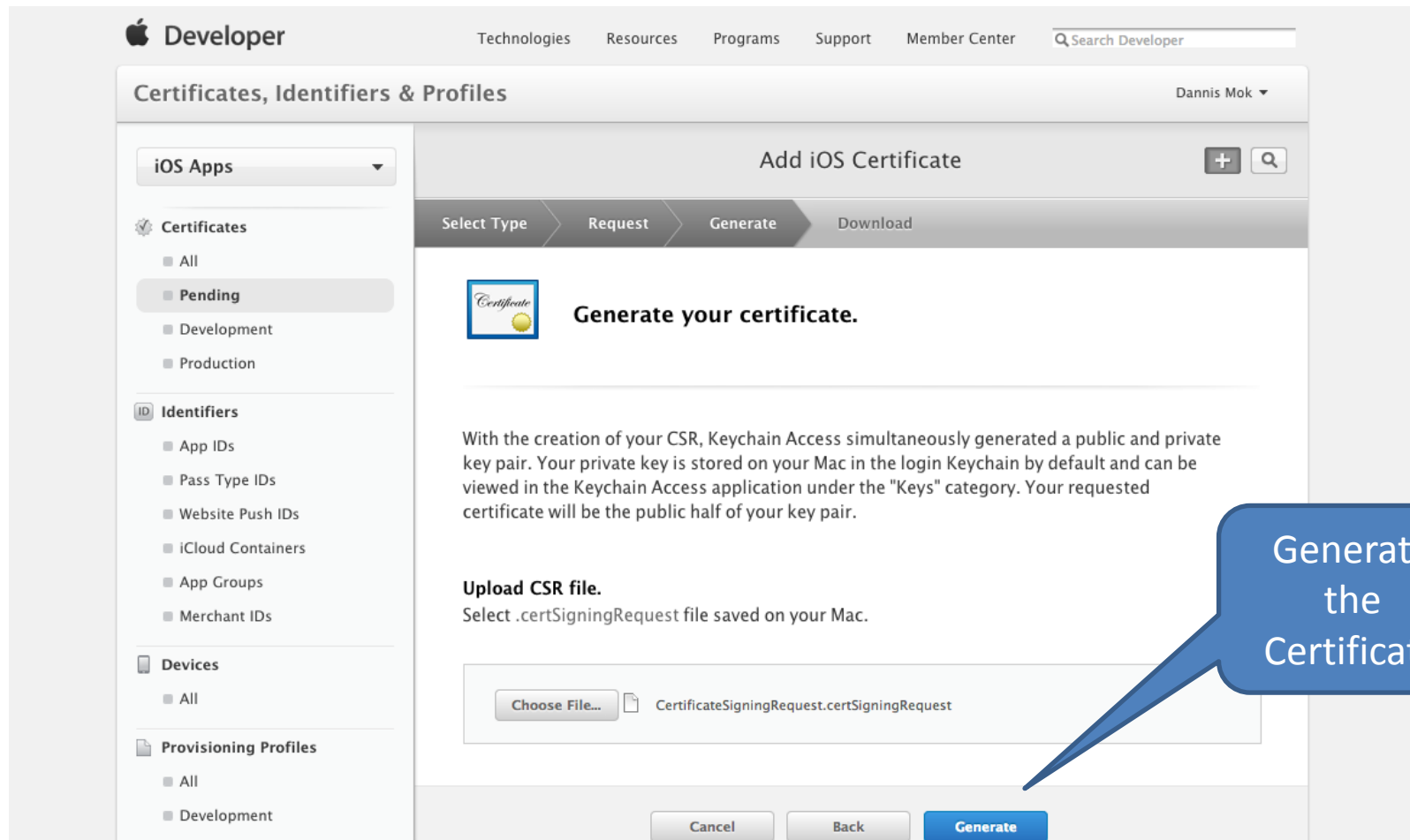
Upload CSR file.
Select .certSigningRequest file saved on your Mac.

Choose File...

Upload the CSR

Cancel Back **Generate**

Deploy apps to real device



Deploy apps to real device

The screenshot shows the Apple Developer portal interface. The top navigation bar includes 'Technologies', 'Resources', 'Programs', 'Support', 'Member Center', and a search bar. The main heading is 'Certificates, Identifiers & Profiles' with a user dropdown for 'Dannis Mok'. On the left sidebar, under 'iOS Apps', the 'Certificates' section is expanded, showing 'All', 'Pending' (selected), 'Development', and 'Production'. Below this are 'Identifiers' and 'Devices' sections. The main content area is titled 'Add iOS Certificate' and has a progress bar with steps: 'Select Type', 'Request', 'Generate', and 'Download' (current step). A message states 'Your certificate is ready.' with a certificate icon. Below this, a section titled 'Download, Install and Backup' provides instructions. A box displays the certificate details: 'Name: iOS Development: Dannis Mok', 'Type: iOS Development', and 'Expires: Oct 07, 2015', with a 'Download' button. A blue speech bubble points to the button with the text 'Download the certificate'. At the bottom, a 'Documentation' link is provided.

Apple Developer Technologies Resources Programs Support Member Center Search Developer

Certificates, Identifiers & Profiles Dannis Mok

iOS Apps

- Certificates
 - All
 - Pending**
 - Development
 - Production
- Identifiers
 - App IDs
 - Pass Type IDs
 - Website Push IDs
 - iCloud Containers
 - App Groups
 - Merchant IDs
- Devices
 - All
- Provisioning Profiles
 - All
 - Development

Add iOS Certificate + 🔍

Select Type Request Generate **Download**

 **Your certificate is ready.**

Download, Install and Backup
Download your certificate to your Mac, then double click the .cer file to install in Keychain Access. Make sure to save a backup copy of your private and public keys somewhere secure.

 Name: iOS Development: Dannis Mok
Type: iOS Development
Expires: Oct 07, 2015

Download

Download the certificate

Documentation
For more information on using and managing your certificates read:

Deploy apps to real device

The screenshot shows the 'Add iOS Devices' window in Xcode. The left sidebar contains a navigation menu with sections: 'iOS Apps', 'Certificates' (All, Pending, Development, Production), 'Identifiers' (App IDs, Pass Type IDs, Website Push IDs, iCloud Containers, App Groups, Merchant IDs), 'Devices' (All), and 'Provisioning Profiles' (All, Development, Distribution). The main content area is titled 'Add iOS Devices' and features a 'Registering a New Device or Multiple Devices' section. Below this is a 'Pre-Release Software Reminder' and a 'Register Device' section with a radio button. The 'Register Device' section includes a 'Name' input field and a 'UDID' input field. A blue callout bubble points to these fields with the text: 'Fill in the Device name and UDID. The id can be found in the Organizer in Xcode'.

Fill in the Device name and UDID. The id can be found in the Organizer in Xcode

Deploy apps to real device

The screenshot shows the Apple Developer portal interface. The top navigation bar includes links for Technologies, Resources, Programs, Support, and Member Center, along with a search bar. The main section is titled 'Certificates, Identifiers & Profiles' and is associated with the user 'Dannis Mok'. On the left sidebar, under the 'iOS Apps' dropdown, the 'Identifiers' section is expanded, showing 'App IDs' as the selected option. The main content area displays 'iOS App IDs' with a '+ Q' button in the top right corner. Below this, it shows '3 App IDs Total' and a table with the following data:

Name	ID
WebAccess8	com.uec.*
Xcode iOS App ID com yourcompany HTML5...	com.yourcompany.HTML5piano
Xcode iOS Wildcard App ID	*

A blue callout bubble with the text 'Add a new App ID' points to the '+' button in the top right corner of the 'iOS App IDs' section.

Deploy apps to real device

Certificates, Identifiers & Profiles Dannis Mok ▾

iOS Apps Register iOS App ID + Q

ID **Registering an App ID**

The App ID string contains two parts separated by a period (.)—an App ID Prefix that is defined as your Team ID by default and an App ID Suffix that is defined as a Bundle ID search string. Each part of an App ID has different and important uses for your app. [Learn More](#)

App ID Description

Name:

You cannot use special characters such as @, &, *, ' , "

App ID Prefix

Value: 44Q4UMF5XL (Team ID)

Fill in as My Apps

App ID Suffix

☐ Explicit App ID

If you plan to incorporate app services such as Game Center, In-App Purchase, Data Protection, and iCloud, or want a provisioning profile unique to a single app, you must register an explicit App ID for your app.

To create an explicit App ID, enter a unique string in the Bundle ID field. This string should match the Bundle ID of your app.

Bundle ID:

We recommend using a reverse-domain name style string (i.e., `com.domainname.appname`). It cannot contain an asterisk (*).

☒ Wildcard App ID

This allows you to use a single App ID to match multiple apps. To create a wildcard App ID, enter an asterisk (*) as the last digit in the Bundle ID field.

Bundle ID:

Example: `com.domainname.*`

App Services

Select the services you would like to enable in your app. You can edit your choices after this App ID has been registered.

Enable Services: ☐ App Groups
☐ Associated Domains

Deploy apps to real device

App ID Suffix

☐ Explicit App ID

If you plan to incorporate app services such as Game Center, In-App Purchase, Data Protection, and iCloud, or want a provisioning profile unique to a single app, you must register an explicit App ID for your app.

To create an explicit App ID, enter a unique string in the Bundle ID field. This string should match the Bundle ID of your app.

Bundle ID:

We recommend using a reverse-domain name style string (i.e., com.domainname.appname). It cannot contain an asterisk (*).

☒ Wildcard App ID

This allows you to use a single App ID to match multiple apps. To create a wildcard ID, enter an asterisk (*) as the last digit in the Bundle ID field.

Bundle ID:

Example: com.domainname.*

Fill in this. Use the reverse domain name. Must match the Bundle in the App

App Services

Select the services you would like to enable in your app. You can edit your choices after this App ID has been registered.

Enable Services: ☐ App Groups
☐ Associated Domains

Deploy apps to real device

The screenshot shows the Apple Developer portal interface. The top navigation bar includes 'Technologies', 'Resources', 'Programs', 'Support', and 'Member Center'. The main header is 'Certificates, Identifiers & Profiles' with a user dropdown 'Dannis Mok'. The left sidebar has a navigation menu with 'iOS Apps' selected, and sub-sections for 'Certificates', 'Identifiers', 'Devices', and 'Provisioning Profiles'. The 'Identifiers' section is expanded, showing 'App IDs' as the active item. The main content area displays 'Add iOS App ID' with a '+', edit, and search icon. Below this, a large 'ID' icon is shown next to the text 'Registration complete.' A message states: 'This App ID is now registered to your account and can be used in your provisioning profiles.' A table lists the configuration details for the App ID.

App ID Description:	Dannis Apps
Identifier:	44Q4UMF5XL.com.uec.*
App Groups:	Disabled
Associated Domains:	Disabled
Data Protection:	Disabled
Game Center:	Disabled
HealthKit:	Disabled

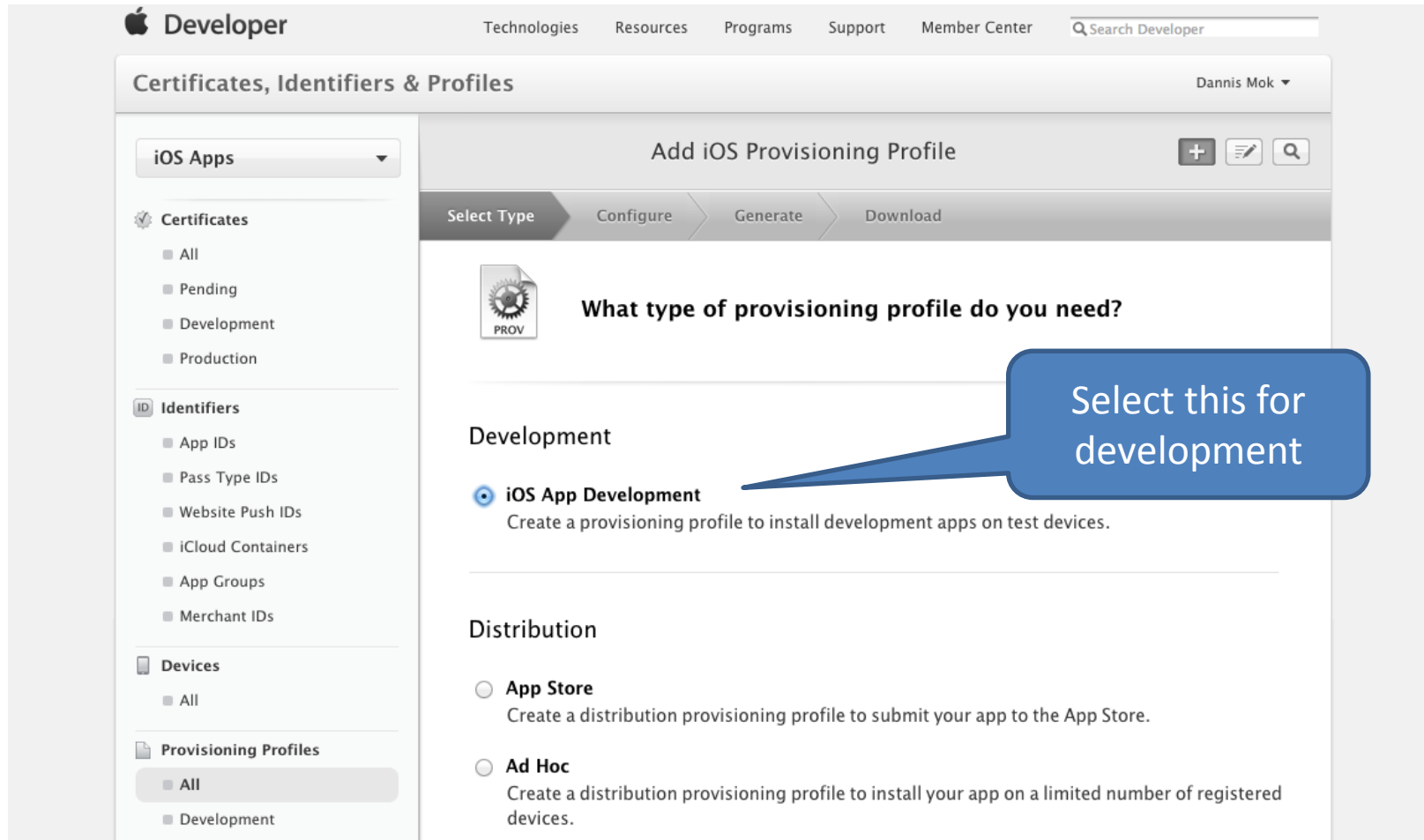
Deploy apps to real device

The screenshot shows the Apple Developer portal interface. The main heading is "Certificates, Identifiers & Profiles". On the left sidebar, under "iOS Apps", there are sections for "Certificates", "Identifiers", "Devices", and "Provisioning Profiles". The "Provisioning Profiles" section is selected. The main content area is titled "iOS Provisioning Profiles" and shows a table with 4 profiles total. The table has columns for Name, Type, and Status. The profiles listed are:

Name	Type	Status
iOS Team Provisioning Profile: *	Development	Active (Managed by Xcode)
iOS Team Provisioning Profile: co...	Development	Active (Managed by Xcode)
TEST	Development	Active
WebAccess8	Development	Active

A blue callout bubble points to the "+" icon in the top right corner of the table, with the text "Create a new Provisioning Profile".

Deploy apps to real device



Apple Developer

Technologies Resources Programs Support Member Center Search Developer

Certificates, Identifiers & Profiles Dannis Mok

iOS Apps

Certificates

- All
- Pending
- Development
- Production

Identifiers

- App IDs
- Pass Type IDs
- Website Push IDs
- iCloud Containers
- App Groups
- Merchant IDs

Devices

- All

Provisioning Profiles

- All
- Development

Add iOS Provisioning Profile

Select Type Configure Generate Download

What type of provisioning profile do you need?

Development

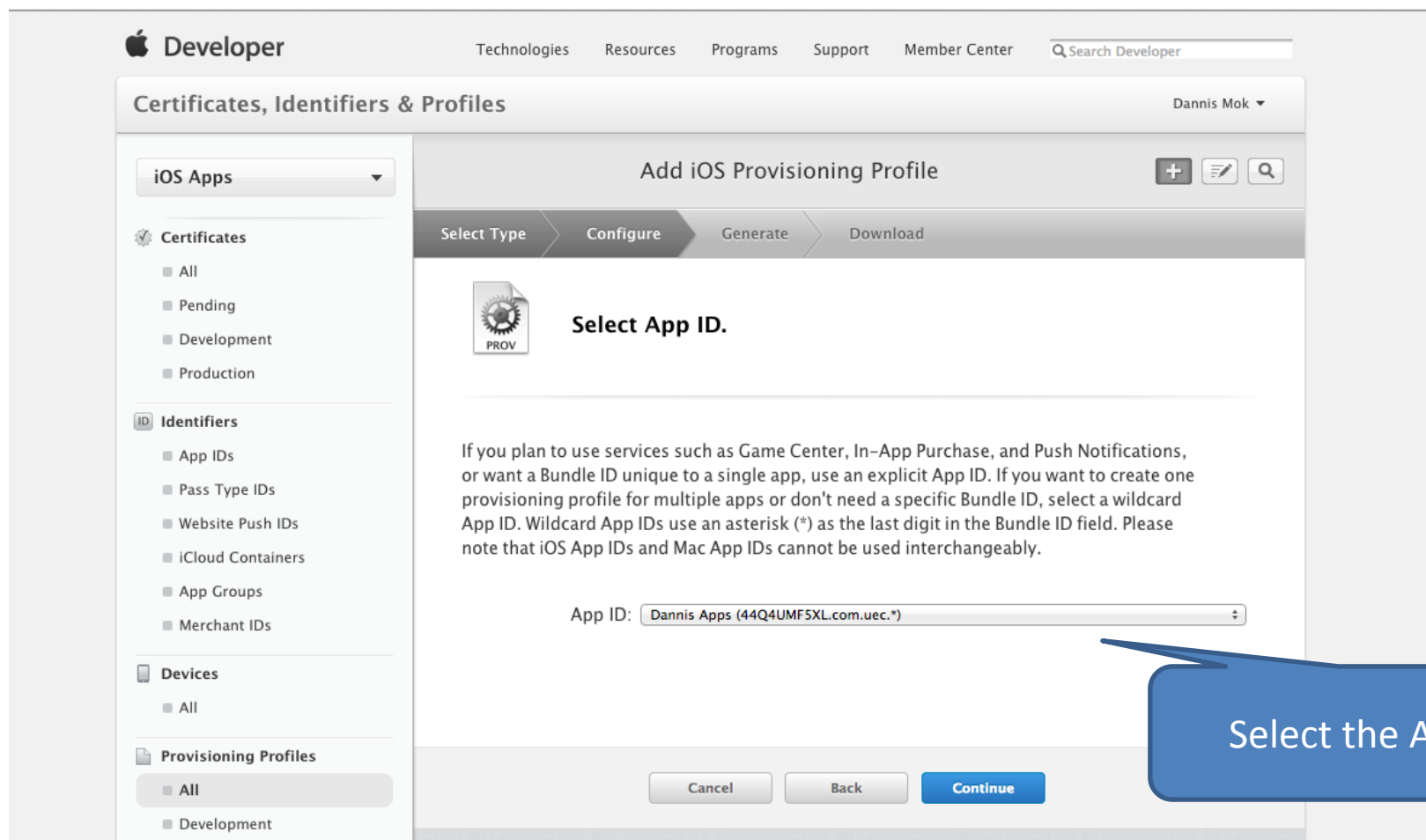
- ☒ **iOS App Development**
Create a provisioning profile to install development apps on test devices.

Distribution

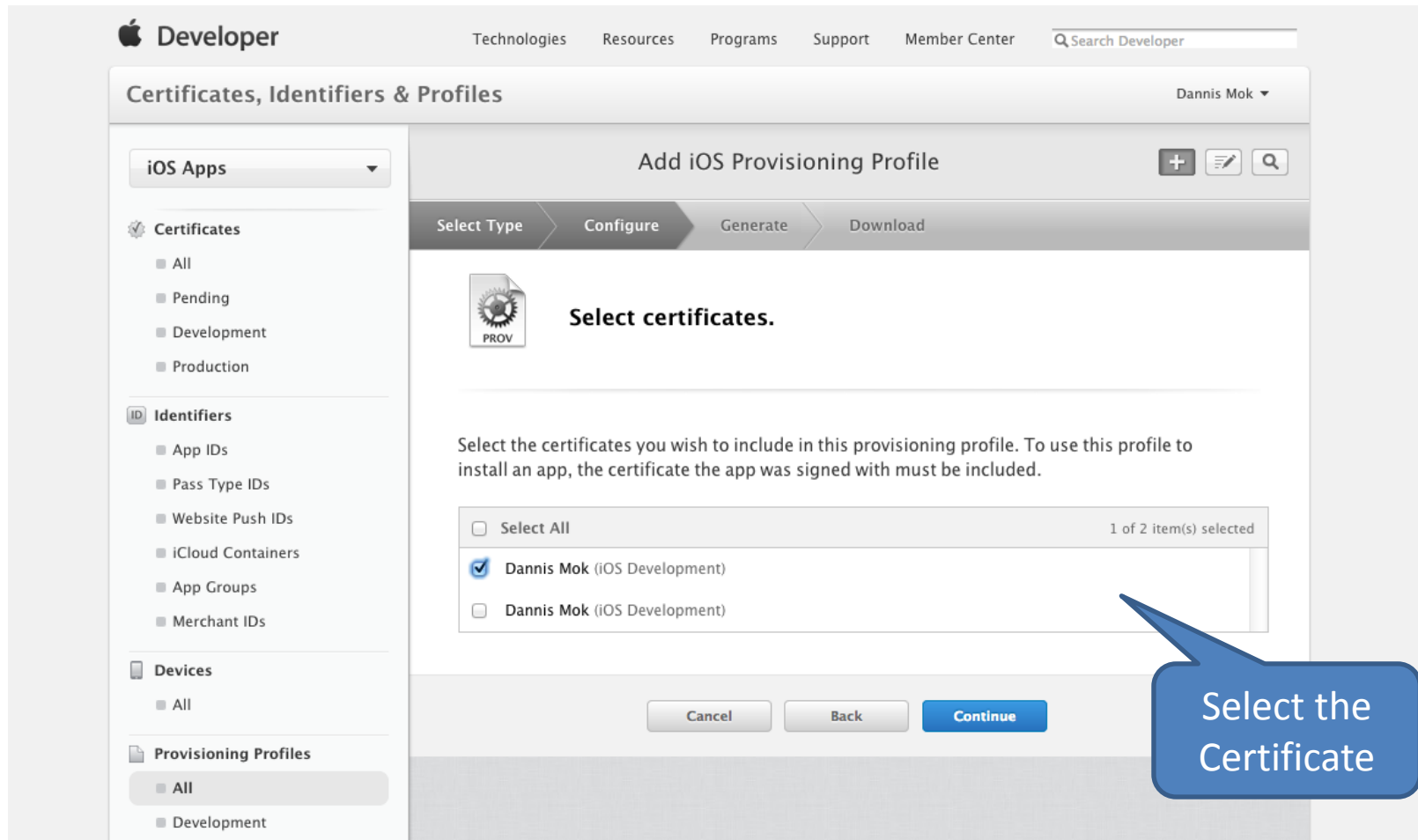
- ☐ **App Store**
Create a distribution provisioning profile to submit your app to the App Store.
- ☐ **Ad Hoc**
Create a distribution provisioning profile to install your app on a limited number of registered devices.

Select this for development

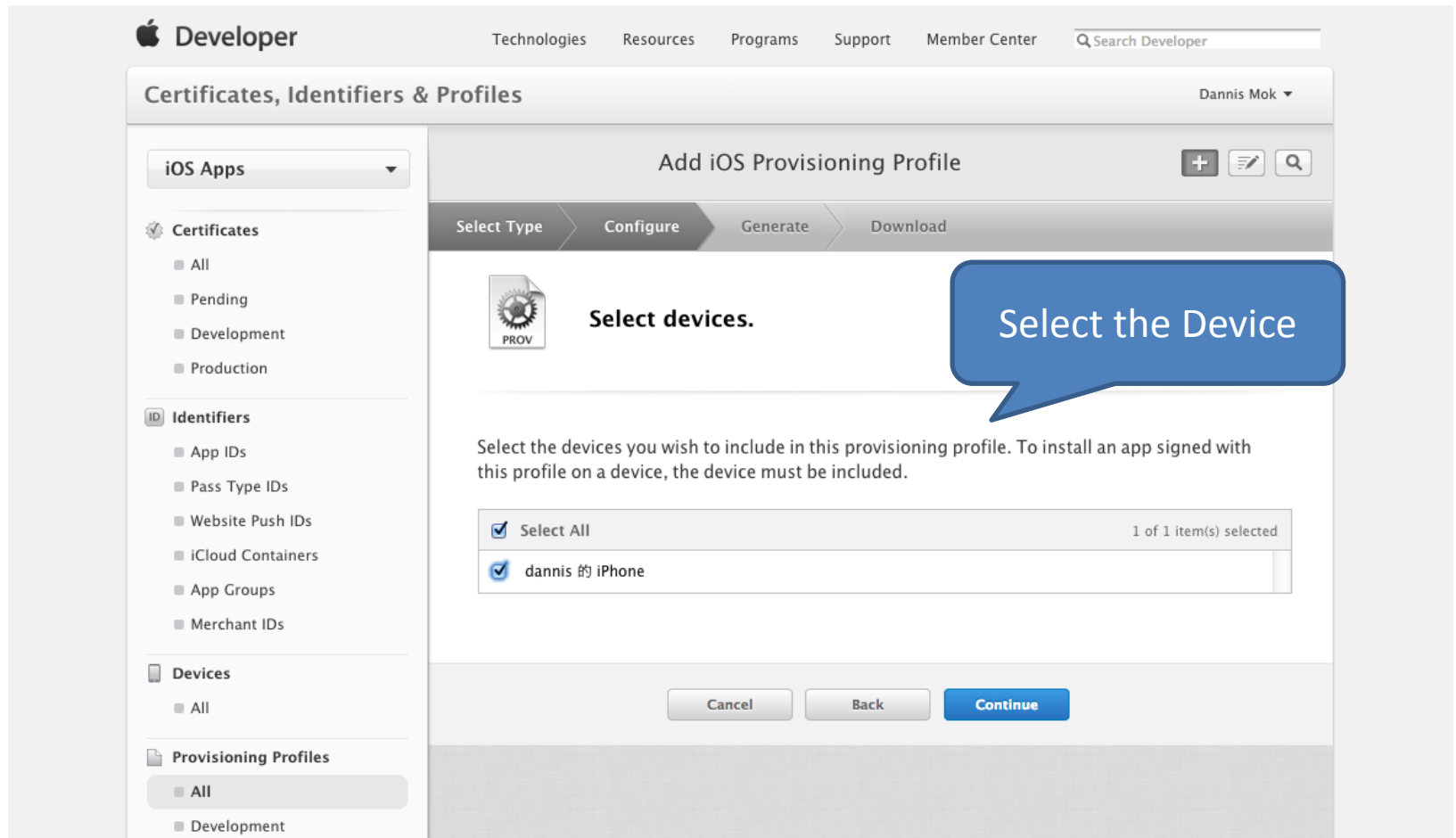
Deploy apps to real device



Deploy apps to real device



Deploy apps to real device



Deploy apps to real device

The screenshot shows the Apple Developer portal interface for adding an iOS Provisioning Profile. The left sidebar contains navigation links for Certificates, Identifiers, and Devices. The main content area is titled 'Add iOS Provisioning Profile' and shows the 'Generate' step. The profile name is 'Dannis iPhone Profile' and the type is 'Development'. The App ID is 'Dannis Apps (44Q4UMF5XL.com.uec.*)'. The certificates and devices sections both show '1 Included'. A blue callout bubble points to the 'Generate' button with the text 'Generate the profile'.

Apple Developer Technologies Resources Programs Support Member Center Search Developer

Certificates, Identifiers & Profiles Dannis Mok

iOS Apps

Certificates

- All
- Pending
- Development
- Production

Identifiers

- App IDs
- Pass Type IDs
- Website Push IDs
- iCloud Containers
- App Groups
- Merchant IDs

Devices

- All

Provisioning Profiles

- All
- Development

Add iOS Provisioning Profile + [Edit] [Search]

Select Type Configure **Generate** Download

 **Name this profile and generate.**

The name you provide will be used to identify the profile in the portal. You cannot use special characters such as @, &, *, ', " for your profile name.

Profile Name:

Type: **Development**

App ID: **Dannis Apps (44Q4UMF5XL.com.uec.*)**

Certificates: **1 Included**

Devices: **1 Included**

Generate the profile

Deploy apps to real device

The screenshot displays the Apple Developer portal interface for managing provisioning profiles. The main heading is "Certificates, Identifiers & Profiles". On the left sidebar, the "iOS Apps" dropdown is selected, and the "Provisioning Profiles" section is expanded, showing an "All" filter. The main content area is titled "Add iOS Provisioning Profile" and features a progress bar with four steps: "Select Type", "Configure", "Generate", and "Download". The "Download" step is currently active. Below the progress bar, a message states "Your provisioning profile is ready." accompanied by a gear icon labeled "PROV". Under the "Download and Install" section, instructions advise downloading and double-clicking the file. A table lists the profile details: Name (Dannis iPhone Profile), Type (Development), App ID (44Q4UMF5XL.com.uec.*), and Expires (Oct 07, 2015). A blue "Download" button is positioned below the table. A blue callout bubble with the text "Download the profile" points to this button.

Apple Developer

Technologies Resources Programs Support Member Center Search Developer

Certificates, Identifiers & Profiles Dannis Mok

iOS Apps

Certificates

- All
- Pending
- Development
- Production

Identifiers

- App IDs
- Pass Type IDs
- Website Push IDs
- iCloud Containers
- App Groups
- Merchant IDs

Devices

- All

Provisioning Profiles

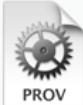
- All

Add iOS Provisioning Profile

Select Type Configure Generate Download

Your provisioning profile is ready.

Download and Install
Download and double click the following file to install your Provisioning Profile.

	Name: Dannis iPhone Profile Type: Development App ID: 44Q4UMF5XL.com.uec.* Expires: Oct 07, 2015
--	---

Download

Download the profile

Deploy apps to real device

