***MOBILE APPLICATION DEVELOPMENT***

***S2021 MAD400-IOS***

***IOS DEVELOPMENT***

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***X CODE***

How can you run Xcode on Windows and develop iOS apps with a Windows PC? The short answer is you cannot You have got a few alternatives to get around that, however. In this tutorial, we will discuss how you can install Xcode on Windows to build iOS apps.

Xcode is the macOS just programming program, called an IDE, that you use to configuration, create and distribute iOS applications. The Xcode IDE incorporates Swift, a code proofreader, Interface Builder, a debugger, documentation, adaptation control, instruments to distribute your application in the App Store, and significantly more.

Xcode contains all you require to assemble iOS applications, and it just sudden spikes in demand for macOS.

That is the point at which the issues start. You need to make an iOS application with your Windows PC; however you cannot accept a PC or PC with macOS pre introduced on it. Dissimilar to Windows, Apple does not permit its working framework to other PC producers. You can just utilize macOS on a Mac.

Indeed, when you acquire a permit to utilize macOS, which happens when you buy a Mac PC, you need to consent to just run the working framework on Apple equipment. This viably restricts you to just create applications on a Mac.

***ANOTHER WAY IS TO RENT MAC IN CLOUD***

An even easier way to get your hands on macOS, albeit more expensive, is to rent a Mac in the Cloud. You can work with Xcode on Windows with this approach because you are essentially connected to a Mac that is elsewhere.

Here is how that works.

Someone connects a bunch of Mac’s to the internet.

You sign in on one of those Macs via a Remote Desktop Connection.

Done! You can use this Mac from Windows/Linux and build iOS apps.

An interesting use case for renting a Mac in the cloud comes from the latest developments in Apple’s hardware. Many designers, developers and desktop-publishers have voiced their concerns over Apple hardware lagging behind offering low-spec computers for a fairly high price.

If you do not want to take your $3.000 MacBook Pro with you in a coffee shop, or on your next trip to Thailand, why not purchase a low-end Windows or Linux laptop, and connect to your Mac in the cloud? You can either host it at home yourself, co-locate it in a data center, or rent a dedicated cloud-based Mac.

A picture containing graphical user interface

Description automatically generated

***HOW TO INSTALL AND USE AND RUN EXCODE***

A virtual machine will create an environment an operating system can run in, as if it is running on the hardware itself, except it is running on top of your actual hardware and operating system. You can then run Xcode normally because it essentially runs on macOS on Windows.

This is called virtualization, and it allows you to run Windows on Linux, macOS on Windows, and even Windows on macOS. One of the benefits of virtualization is to run multiple OS side-by-side, which is useful for cross-platform development.

You need 2 things to run macOS on Windows in a VM:

A copy of macOS, as an installer or virtual disk image file

A virtual machine tool, like VirtualBox (free) or VMware (paid)

You can obtain a copy of macOS by downloading it from the App Store or by borrowing it from a friend. A great approach is to search for virtual disk images that have macOS pre-installed. You can also find installers from various sources on the internet or upgrade a pre-existing image to a newer version of macOS.

Here is what you do next.

Install VirtualBox or VMware

Mount the macOS installer or disk image.

Start the VM to launch macOS.

Launch Xcode.

***CONCLUSION***

The xcode topic is huge if we discuss every part of it but this document is enough to give a brief knowledge to newer person regarding xcode one can easily understand each and every corner of this particular subject with the help of this summary.

***REFERENCES***

[***https://codewithchris.com/xcode-for-window***](https://codewithchris.com/xcode-for-window)

***https://developerapple.com/xcode***