Module A.3 OS Concept Map

**Research**

Topic A – Productivity & Application Software

* IOS has many different productivity apps for IPhones and Mac PC’s
* They have many different adobe applications ex. Acrobat, illustrator, Photoshop, and many more.
* They also have a Finder application, Launchpad application, Photos application, Calendar application, Reminder application, and more.

Topic B – Entertainment & Media Software

* For entertainment IOS has an application called the app store with many different apps you can download for free or purchase and download to play games or television apps to watch tv shows and movies.

Topic C – Programming Tools & Environment

* There are many tools for programming and environment such as XCode which is widely used by almost every iOS developer and by using XCode you can develop application for iPhone, Mac, iPad, Apple watch, and Apple TV.
* AppCode is another developing tool which is developed by JetBrains.

You can use AppCode for the development of iPhone, Mac, iPad, Apple watch, and Apple TV.It support many languages including swift, Objective-C, C++, JavaScript, etc. The key feature of AppCode that it provide coding assistance

and analysis code and highlight errors.

* Code Runner is one of the famous, widely used IDE. It is easy-to-use, advanced and highly flexible programming editor for iOS development. Code runner support 23 languages including swift, objective-C and objective-C++. Code Runner is a lightweight, fast and you can debug your code with breakpoint.
* Many more tools

Topic D – System Tools

* It is necessary for you to get a Mac with Intel-based processor running on Mac OS X version 10.8 (or more updated version). Not to worry, if you have your own PC, you can still develop iOS apps through Mac Mini (Apple’s most affordable and compact desktop computer). Having an iPhone and/or iPad will be a plus point because you can test your own app directly on those devices.
* Apple Developer Program which allows you to push your app live on the App Store so that customers all over the world can download your app and use it. However, if you don’t want to pay for the program, you can option to deploy your app you create onto your own device for your own use different programming languages require different tools.

Topic E – Software Security & Updates

* Apple designed the iOS platform with security at its core. As a result, iOS is a major leap forward in security for mobile devices. Every iOS device combines software, hardware, and services designed to work together for maximum security and a transparent user experience.
* iOS is generally more secure than Android. Google has stated that its mobile operating system, Android, is just as secure as iOS. While this may be true for the operating system itself, when you compare the two smartphone ecosystems as a whole, the data suggests that iOS is generally more secure.
* MAC IOS is one of the top 3 most secure operating systems.
* There are many different ways to secure your phone like using a strong password instead of a 4 digit code. Turn off lock screen notifications. Turn on two-step verification for Apple ID and iCloud. Disable Siri on a lock screen. Turn off automatic sync to iCloud. Discard automatic WiFi connections to known networks. Get used to VPN. Turn off cookies in your browsers.

Topic F – File System & User Accounts

* A file system handles the persistent storage of data files, apps, and the files associated with the operating system itself. Therefore, the file system is one of the fundamental resources used by all processes. APFS is the default file system in macOS, iOS, watchOS, and tvOS.
* iOS indeed uses HFSX (HFS+ , case sensitive). You can also use the HFSleuth tool from the Mac OS X/iOS Internals website, to prove this, and delve deeper into the filesystem structures.
* FileApp is an effective file and document manager. It lets you play multimedia contents. Just like Windows Explorer or Finder on the Mac, this app lets you store iOS files and folders on your iPhone.
* IOS also uses a file system called Finder which lets you search allthe files through the computer for the one you are looking for and also automatically has recent files easier to find.

Topic G – Special Features of your OS

* IOS has many special features only available on IOS such as apple music, facetime, messages, screen time, notifications, do not disturb, siri, game center, app store, emojis and many more.

Topic H – Limitations of your OS

* IOS only has certain amount of memory on phones and computers and once full you cannot add anymore.
* Also, battery life is a big problem with IOS because people always complain about their devices shutting down fast.
* If you want more space on your devices it will cost a lot more money to purchase and it can be extremely expensive.