

**MOBILE APPLICATION DEVELOPMENT (MAD2009MA)**

**MAD400-75 IOS Development**

**ASSIGNMENT 2 - 18%**

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1. **INTRODUCTION**

The assignment is explaining Swift, Objective-C, Test Flight, Apple Inc, and Steve Jobs. These terms are very popular and used mainly by developers or any kind of persons all over the world. It is clearly explained each term with its technical information support.

1. **SWIFT**

Swift is general purpose powerful compiled language for programming ios, macos, linux applications which is developed by apple Inc and open source contributors. It is first released in 2014 June 2.The stable release was announced on 25th January 2021.it comes under the category of static, strong and inferred. It is going to be dominant in the world by near future, mainly focused for development of ios. It is an open source platform for technology developers. It always provides the safeguards which are helping to stop the errors .it is the best way to provide safety to technical world along with better readability.

It contains new features for developers, testers and the design is very simple. It has so many features like powerful generics, simple to use ,easy code ,light weight syntax ,fast operations, various return value, error handling systems, functional and structured programming pattern, provide pattern matching etc.It is designed for Safety, for performing safety operations by default it is making swift object can never be nil.

For performing fast and Powerful, it uses LLVM technology for compilers. First swift code converted into optimized native code which is welcoming for all modern hardware system. It contains primitives and provides object oriented features that make it powerful. It opens its door to world developers those are making creative style of applications in Mac.

It is open source platform Swift.org for everyone this community involves developers, contributors, workers both inside and outside of Apple which makes Swift amazing .It supports all the platform of Apple, Linux according to the application. It is a simple tool for making, running, practicing and packaging libraries of Swift; it distributes libraries along with source code.

### 

### MERITS OF SWIFT

### Quick growth process

* Easy to read and maintain

### Scaling the product is easy

### Better safety

### Improved performance

### Better memory management

* Uses a few code
* Faster operation

### Provide stack potential and cross-device hold up

* Less name collisions by means of unlock basis projects
* Supports active libraries
* It supports expansion using Playgrounds.
* Easy to understand and learn for beginners

# DEMERITS OF SWIFT

* More compile time.
* There is no provision to use C++ libraries directly.
* Unit arrangement stability is not achieved and is necessary for creators those who need to show the code as binary structure.

### Its known as quite young language

### Imperfect talent pool

### Reduced interoperability with equipment and IDEs of third party

### Very limited support for previous iOS versions

1. **OBJECTIVE-C**

It is a general purpose, primary programming language for writing programming for ios or os. It provides object oriented features and dynamic runtime. It can be considered as the superset of c language. It comes under the [discipline](https://www.google.ca/search?q=objective-c+typing+discipline&sa=X&ved=2ahUKEwiYhcXg0MDvAhUSCc0KHd9cAx8Q6BMoADAsegQIOxAC) of [static](https://www.google.ca/search?q=static&stick=H4sIAAAAAAAAAONgVuLSz9U3KIlPK6tKWcTKVlySWJKZDADougWLFwAAAA&sa=X&ved=2ahUKEwiYhcXg0MDvAhUSCc0KHd9cAx8QmxMoATAsegQIOxAD), dynamic, and weak and it is [Designed by](https://www.google.ca/search?q=objective-c+designed+by&stick=H4sIAAAAAAAAAOPgE-LQz9U3MC00NtQyyCi30k_Oz8lJTS7JzM_TLyjKTy9KzM3NzEuPz0nMSy9NTE8ttkpJLc5Mz0tNUUiqXMQqnp-UBVJdlqqbrIAkAwA-ecITWAAAAA&sa=X&ved=2ahUKEwiYhcXg0MDvAhUSCc0KHd9cAx8Q6BMoADAtegQIQxAC) [Brad Cox](https://www.google.ca/search?q=Brad+Cox&stick=H4sIAAAAAAAAAOPgE-LQz9U3MC00NlTiBLEMLauMs7UMMsqt9JPzc3JSk0sy8_P0C4ry04sSc3Mz89LjcxLz0ksT01OLrVJSizPT81JTFJIqF7FyOBUlpig451fsYGUEAB4qNPNXAAAA&sa=X&ved=2ahUKEwiYhcXg0MDvAhUSCc0KHd9cAx8QmxMoATAtegQIQxAD). It involve the [Family](https://www.google.ca/search?q=objective-c+family&stick=H4sIAAAAAAAAAOPgE-LQz9U3MC00NtTSzii30k_Oz8lJTS7JzM_TLyjKTy9KzM3NzEuPz0nMSy9NTE8ttkpLzM3MqVzEKpSflAVSWJaqm6wAEQQAU5sXVU4AAAA&sa=X&ved=2ahUKEwiYhcXg0MDvAhUSCc0KHd9cAx8Q6BMoADAuegQIPBAC)  [C](https://www.google.ca/search?q=C&stick=H4sIAAAAAAAAAOPgE-LQz9U3MC00NlQCswxLzJK0tDPKrfST83NyUpNLMvPz9AuK8tOLEnNzM_PS43MS89JLE9NTi63SEnMzcyoXsTI672BlBADNj3CPSgAAAA&sa=X&ved=2ahUKEwiYhcXg0MDvAhUSCc0KHd9cAx8QmxMoATAuegQIPBAD). This language is supported by [Apple](https://en.wikipedia.org/wiki/Apple_Inc.) for [macOS](https://en.wikipedia.org/wiki/MacOS" \o "MacOS), [iOS](https://en.wikipedia.org/wiki/IOS" \o "IOS), applications .it is created in 1980.originally it is used in next operating system, and then it uses the mac.

It mainly has .m filename extensions header files has .h extensions. It provides Smalltalk-style messaging to c. That means it combines the benefits of both c and

Smalltalk. The tool which is used to develop c later used in xcode .that is why this language has his much welcoming all over the world.

It is primary programming language for OS X and Ios and it provide dynamic runtime, it provides language level support for graph management of objects, bind the responsibilities all the time .Below it is explaining its merits and demerits with the advanced parallel system.

ADVANTAGES OF OBJECTIVE C

* It is a permitted good-tested language.
* It is reliable
* It is very stable.
* private APIs use is easy
* Objective-C and C++ are compatible
* Add dynamic features
* It supports binary framework writings

DISADVANTAGES OF OBJECTIVE C

* Don’t have identity as it developed on top of C
* It has explicit pointers
* Bugs are very hard to discover and fix
* It treated as old language, sometimes seems like complex

The development environment mainly includes Xcode .The App User interface are developed for iOS performance is good for old objective C. It is not that much faster like younger languages. It includes lots of tools but very limited chance for latest devices. Community and support is vast but aging. It is really stable, cannot observe more changes or development in past days. The documentation is precise and it is lasting. It can be treated as really matured. The number of professionals or specialist is decreasing day by day in this field.

They are not enforced in compile time. There is a chance for out of bounds and stack overflows. Objective c mainly consists of header files and implementation files. On top of that, it includes generics that are lightweight are indented to work for compile time. In addition to it, it has manual management of memory for core foundation and the sending message many be dynamic and dispatch.

1. **TEST FLIGHT**

TestFlight is an online assistance for establishment and testing of portable and downloaded applications for the convenience of users as with the help of these software they can get lot of help, presently claimed or introduced by Apple Inc and just offered to designers and getting help in order to inside the iOS Developer Program convenience.

REQUIRED PLATFORMS

Test flight is only available for iOS apps in mobile phones of apple like iPad, or iPod touch screen running machines only. It is not supported or available for mac.

INSTALLING AND TESTING BETA APPS

Each form is available to test for as long as 90 days, begin from the most day the engineer transfers their helpful information fabricate. You can perceive that there are many long you have left for testing under the influence of lot of customers’ application name in TestFlight. TestFlight will advise you many or each time another form is available and can be denominated that lot of accessible and will remember directions as long as for what you need to test. You can turn on programmed and many other updates to have the most recent beta in a sense of forms introduce order consequently.

FOR INSTALLATION

To begin, as to introduce TestFlight on the gadget for which is used not you'll use for testing. At that circumstances point, acknowledge your email for greeting or follow the lot of steps regarding the public connection greeting to introduce mostly the beta application. You can hopefully introduce the beta application on as many 30 gadgets.

OPTION OUT FROM TESTING

On the off chance your email greeting, the beta application won't not only be introduced and you as an analyser, and Apple do it not at fast pace make any move regarding or concerning your email address.

Moreover, you can only withdraw utilizing for most of the planning to the connection at the lower part of the greeting as long as email to inform for the designer that you'd prefer to be eliminated as from their probably undrawn.

PRIVACY AND DATA

At the point where you test beta applications in a form of simply and beta App Clips with TestFlight, Apple will mostly gather and send to the crash logs, your own data, for example, name and email address, utilization information data, and any you submit to the engineer. Data that is messaged to the engineer is simply straightforwardly and must be gathered isn't imparted for to Apple.

INFORMATION SHARED BY USING TEST FLIGHT

The information is gathered by Apple and imparted as there is a responsibility to the designer when you use TestFlight? On the off that there is chance that you acknowledged lot of specific a greeting through a, your email address and name are not only obvious regarding to the designer.

1. **APPLE IN**

Apple Inc is a leading company of America which used to develop computer software and consumer electronics. The company has done for designing lot of products which include verities of computers, the iPad, iPhone, and the iPod. Computer software with the unique and excellent quality for which now becomes the world one of leading and biggest name in a field of technology by making the products which are used by professionals and even now made by this company range from the life, the safari web browser, the iOS, and the iTunes among others.

HISTORY

Company was established by the late Steve Jobs, Ronald Wayne and Steve Wozniak in the year 1976. The organization becomes was subsequently fused the

next year to 1980, the organization focused on the creation of their technology which has lot of impact on their generations and in a field of technology because of an offer of the Apple I and Apple II PCs. With the presentation of capabilities PC architects in the last part of the 70s, the organization gets lot of invitations and finally received the Apple III PCs.

Nowadays Company become one of leading manufacturers of leading technology products and their new generations phones has imparted lot of influence on the companies to do best regarding this application

IMPACT ON MARKET

Apple is an organization which is not only dependent on purchaser products and many different other buyer merchandise organizations. Be that there are many to cultivate an upper hand and over its opponents, the organization is now operations runs an exceptional publicizing technique for its items.

Having set up to an exceptional there are many other jobs standing in the scope of its items, the organization which has many good impressions and appreciates an extremely enormous client base around the whole globe along with this now there are lot of their operational branches which are now opening in different parts of world just to expand their business

GLOBAL BUSINESS DEVELOPMENT STRATEGIES

With the lead part for in advancement there is progress and exploration in the innovation business, the organization of the world drove the globe with the presentation in many parts of the iPod. This made Apple Inc a significant market partner in many of fields along with music players.

The organization later dove a lot into the telephone business in the year 2007 with the presentation of the iPhone. The organization has done systematically industry by marking significant organizations into its administrations which cannot only performance and items.

Among its primary techniques in worldwide business is the enhancement which has done lot of progress into creative items that are viewed and work by its adversaries.

Apple has done dramatic changes in a field of technology and with the advancement and progress in technology contribution made by apple is unforgettable many researches and development in technology company has made many software's and apps which cannot be provided by any other leading mobile or software company and researchers are in a hope that apple company will continue to do their researches and do lot in a field of technology for the welfare of world.

1. **Steve Jobs**

Steve Jobs and Steve Wozniak founded Apple. Together they did lot of great inventions and created legendary products like iPhone, iPads etc.

## Who Was Steve Jobs?

Steven Paul Jobs was his real actual name. Chairman and Cofounder of Apple inc. Known as an American inventor. The real man behind the Apple's revolutionary products, which include the iPod, iPhone and iPad, are now seen as dictating the evolution of modern technology.

## He was Born in 1955 in USA. His Brain was very sharp and he was very intelligent in his university. He always participates in different experiments. after completion of his studies, he and Steve Wozniak founded apple in 1976. He also launched Pixar animation studios after leaving the company in 1985. after a decade later he rejoined apple and continue his life there along with pancreatic cancer and died later in 2011

## Steve Wozniak and Steve Jobs

Previously Jobs was at Homestead High School, and was introduced to his partner and co-founder of Apple Computers Steve Wozniak,

He was at the University of California, Berkeley. Back in 2007 during his interview with PC World, Steve Wozniak told the whole world about why he and Steve Jobs was so excited to invent Apple and said "We both loved electronics and the way we used to hook up digital chips," Wozniak said. "Very few people, especially back then, had any idea what chips were, how they worked and what they could do. I had designed many computers, so I was way ahead of him in electronics and computer design, but we still had common interests. We both had pretty much sort of an independent attitude about things in the world.

## Founding and Leaving Apple Computer

In 1976, when Steve was only 21, he and Wozniak started apple at Steve jobs family garage. They funded themselves by selling Volkswagen buses and Wozniak selling his scientific calculator. Steve and Wozniak are humbled with changing the computer industry with Apple by increasing the technology and making those machines which are smaller, cheaper, intuitive and got in hands of everyday consumer

## NeXT

He left Apple in 1985 and began a new hardware and software company called NeXT inc. The company was well known for selling its special operating system in mainland America and unfortunately, apple bought his company in 1996 for around $400 millions

## Reinventing Apple

In 1997, He returned as Apple's CEO. He makes success in his career in apple during 1970s. And continue his inventions and keep launching new products further.

1. **Conclusion**

The assignment helped to understand more about the term swift, objective c, Test Flight, Apple Inc, and Steve Jobs and it was a better opportunity to know about these and its features very deeply. All the findings which we are finalised are reported in this document.

1. **Bibliography**

Our own content