MODE 4201-05

Lab 1

Introduction to Mobile Development

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Contents

1: Mobile Development Topic (Future of Mobile Computing):

Definition of Mobile Computing:

In simple words, Mobile computing means using mobile devices like Laptop, PC, Smart Phones, a proper definition would be, humans connect to each other, share data, video, voice but not directly or on a wired device, instead using network-based devices.

Mobile computing technology may be invented before, but it grew rapidly and became available/normal between/after 1980s with Osborne Laptops, especially after Apple laptops in 1990 mobile computing was very common. From those days till today, it has increased exponentially which is calculated to be just the start of the mobile computing. Today, around 70% people are using internet connection as per this table below.

Computing Device Fragmentation Underway

Device Shipments by Form Factor, Millions, 1995-2010
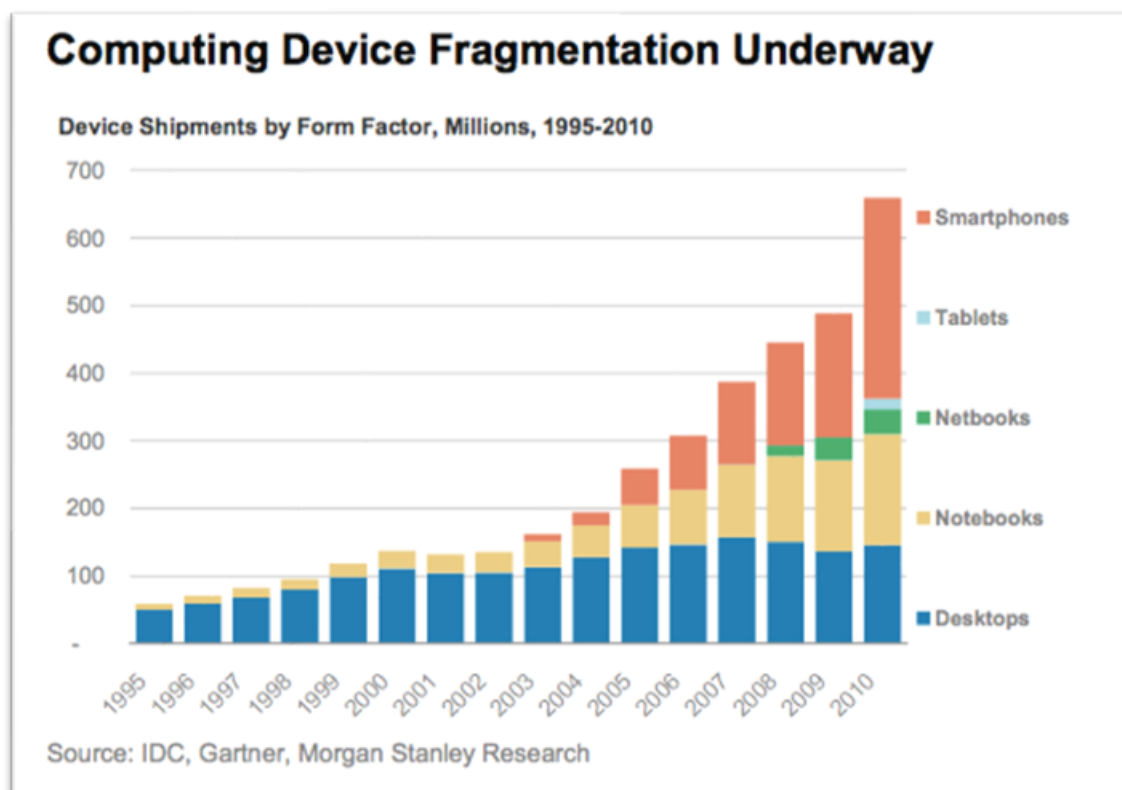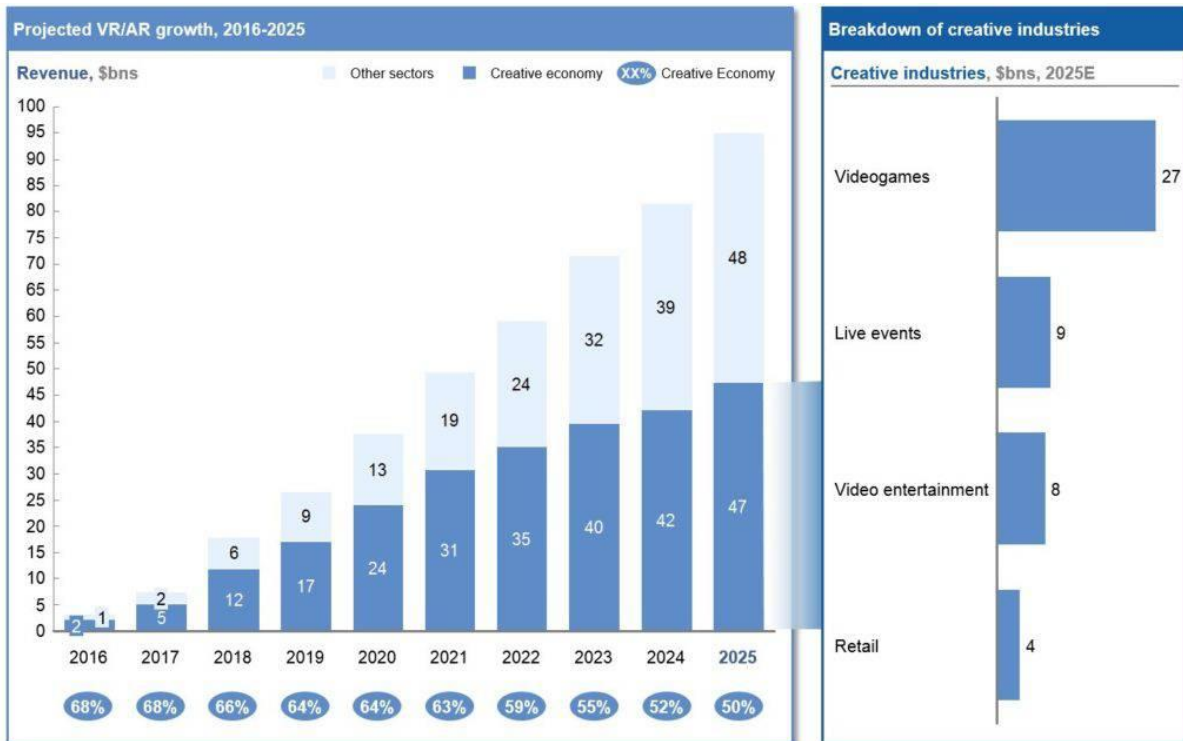
Source: IDC, Gartner, Morgan Stanley Research

Image: 1.1

This is a graph of shipments of smartphones in millions from 1995 to 2010. Now no one will say that mobile computing is going to end, like total full stop, unless we don't face some sort of pandemic of network and something like that. But everyone will say that it is the future. It is projected/predicted that mobile computing will controller almost all the technology in the world, for example there are cars in market, which is based on computers, infect there is a shortage of main computer chip for General Motors Manufacturing plant. Which is true because my friend is working there in production

line, and now production has stopped because of that shortage. There are lot of carrier opportunities because of this new growing field already, which is a solution of unemployment. And if IT field will grow then lot of good things and some bad things will happen, but the point is that there is a whole lot of demand for it and because of many more reasons like it is solution of many issues like unemployment and all, which means without a doubt, mobile computing is going to increase in very near future. And its not like it will be only surrounded by smart phones, it can be any new technology, like a virtual reality (VR), VR headsets are also becoming more popular, there are many games and apps which are being developed on basis of VR technology, to give human being same visual experience of being at some different place without even physically being there. Virtual/mixed/hybrid reality is also a fast-growing part of the mobile computing, based on this image.

Image 1.2

Increasing popularity of mobile computing will give far more advantages to human race. You can use it however you like and for whatever you want. You can get entertained, share information, learn, use it for your own comfort, for your business and there is lot more I can write in the list of pros section of it, in terms of human advancement, in terms of a particular human, for the IT industry, medical field, for one particular-field and lot more.

This future may have some disadvantages also. For examples, things like data breaches, data leaks, security of identity and personal information can happen to anyone, any business, or companies. Thigs like over usage of it, which result in many different things in terms of health of a particular person and all world.

2: Mobile Manufacturer:

o   Manufacturer   Apple

o   Phone Model   iPhone 13 Pro

o   Picture/Photo   Image 2.1

o   Price   1399.95 CAD

o   Release Date   Sept 14th, 2021

o   Operating System   IOS

o   Chipset   Apple A15 Bionic (5nm)

o   Processor (CPU)   Hexa-core (2x3.23 GHz Avalanche + 4x1.82 GHz Blizzard)

o   Memory (RAM)   6 GB

o   Memory (Internal)   128 GB

o   Memory (External)   No slots for external memory

o   Display   Super Retina XDR OLED, 120 Hz, 6.1 inches, 1170 x 2532 resolution

o   Camera (rear)   Three cameras with 12 MP with different focal length

o   Camera (Front)   12 MP

o   GPS   Yes

o   Battery   Li-Ion 3095 mAh, wireless charging feature

o   Network   5G

o   Synchronization with desktop/laptop Yes

o   Voice enabled   Siri available

o   Browser   Safari

3 Mobile Plans:

o   Service Provider   Rogers

o   Plan   Talk & Text w/3GB – No Tab

o   Calls   Unlimited Canada wide

o   Data   3 GB/month

o   Messaging   Unlimited Canada wide

o   Global Texting   No

o   Voice mail   Yes

o   Call features   2500 Call Forwarding Minutes, Conference Calling

o   Fees $38/month

References:

Image 1.1: Meador.org, *Tech Transitions Part 3: Fixed to Mobile Computing*
https://meador.org/2015/02/22/tech-transitions-part-3-fixed-to-mobile-computing/

Image 1.2: CBInsights, *What Comes After Smartphones? The Next Mobile Computing Platform Is Already Emerging*, https://www.cbinsights.com/research/mobile-computing-platform-future/

Image 2.1: Best Buy, *Apple iPhone 13 Pro 128GB - Sierra Blue - Unlocked*
https://www.bestbuy.ca/en-ca/product/apple-iphone-13-pro-128gb-sierra-blue-unlocked/15723481