

Addis Ababa university

Addis Ababa Institute of technology

Center of Information and scientific computing

Department of Software Engineering

Fundamental of Web Design and Development

Assignment 1

Section 2

Name ………………………………… Solomon Kassahun

Id ………………………………………… ATR/8624/11

Submitted to Mr. Fitsum alemu

1. History of Internet(the Evolution)?

Internet is the Network of Networks. It originates 40 years ago in the U.S military’s funding of research network dubbed arpanet in 1969. Internet follows the following paths too reach to the current situation

* Vannevar Bush writes about “memex”, a futuristic, automatic, personal library system(in 1943).
* ARPA does research on internet work connecting small and large network(in 1960).
* ARPA networking idea, RAND networking concept, NPL network concept, ARPA net planning, merit network were created in 1963,1964,1965,1966,1966 respectively.
* Doug Engelbart demonstrates NLS, a hypertext system that uses a “mouse”( in 1968)
* ARPANET goes online with 4 nodes ( in 1969)
* Request for Comments (RFC) created for quickly disseminating ideas with other network researchers (in 1969)

Telnet allows user to login to a remote computer (RFC 15)

* Ray Tomlinson sends first email (send to himself and probably read “QWERTYUIOP”

FTP(file transfer protocol) allows files to be transferred between computer.

* ARPANET has 200 Nodes ( in 1981)
* ARPANET standardizes its use of TCP/IP to send data packets across the network ( in 1982)
* Domain Name System (DNS) developed ( in 1983)
* NSFNET established, would later become major part of the Internet backbone ( in 1985)
* Over 10,000 nodes on ARPANET. US military portion of ARPANET splits off into MILNET (military-only network) ( in 1986)
* Over 100,000 nodes on Internet ( in 1988)
* First Internet worm by Robert Tappan Morris crashes 6% of servers on Internet ( in 1988)
* Tim Berners-Lee and others at CERN develop the WorldWideWeb (WWW), HTML documents transmitted over the Internet by a web server to web browsers using URIs and HTTP (1st web page online on Aug 6, 1991) ( in 1990)
* ViolaWWW browser for UNIX 50 web servers ( in 1992)
* Netscape 2.0 – Supported plug-ins, frames, Java applets, JavaScript (in 1995)
* Internet Explorer 1.0 released by Microsoft ( in 1995)
* HTML 4.0 de facto standard ( in 1997)
* Network Solutions registers 2 millionth domain name (in 1998)
* Google founded by Larry Page and Sergey Brin (in 1998)
* Napster sued over music sharing (in 2000)

XHTML 1.0 recommended by W3C

* Wikipedia: encyclopedia that can be edited by anyone (in 2001)
* Blogs become popular ( in 2002)
* iTunes.com and other legal Internet music downloading services appear. iTunes.com registers 25th million song download in Dec (“Let It Snow! Let It Snow! Let It Snow!” by Frank Sinatra).(in 2003)
* Security problems (in 2003)

1. SQL Slammer worm - largest and fastest spreading distributed denial of service (DDoS) attacks ever
2. Sobig.F virus - the fastest spreading virus ever
3. Blaster (MSBlast) worm – one of the most damaging worms ever

* MySpace and Facebook popularize online social networks (in 2004)
* YouTube founded by three former PayPal employees and sold to Google the next year for $1.65 Billion ( in 2005)
* Twitter launches 140 character limit microblogging service (in 2006)
* One of the first massive cyber attacks: Estonian websites attacked by Russian hackers after relocating the Bronze Solider of Tallinn monument (in 2007)
* Firefox 3 sets Guinness World Record for the “largest number of software downloads in 24 hours.” (8M downloads) (in 2008)
* Google releases the Chrome web browser (in 2008)
* W3C releases First Public Working Draft of HTML5 spec (in 2008)
* ICANN reveals 1,410 new generic top-level domains (gTLDs) like .apple, .catholic, and .dad (in 2012)
* Mobile devices account for 18% of all web page views (StatCounter) (in 2013)