REACHING ON SCIENCE

WEB DEVELOPMENT COURSE

LESSON 1 : INTRODUCTION TO THE WEB

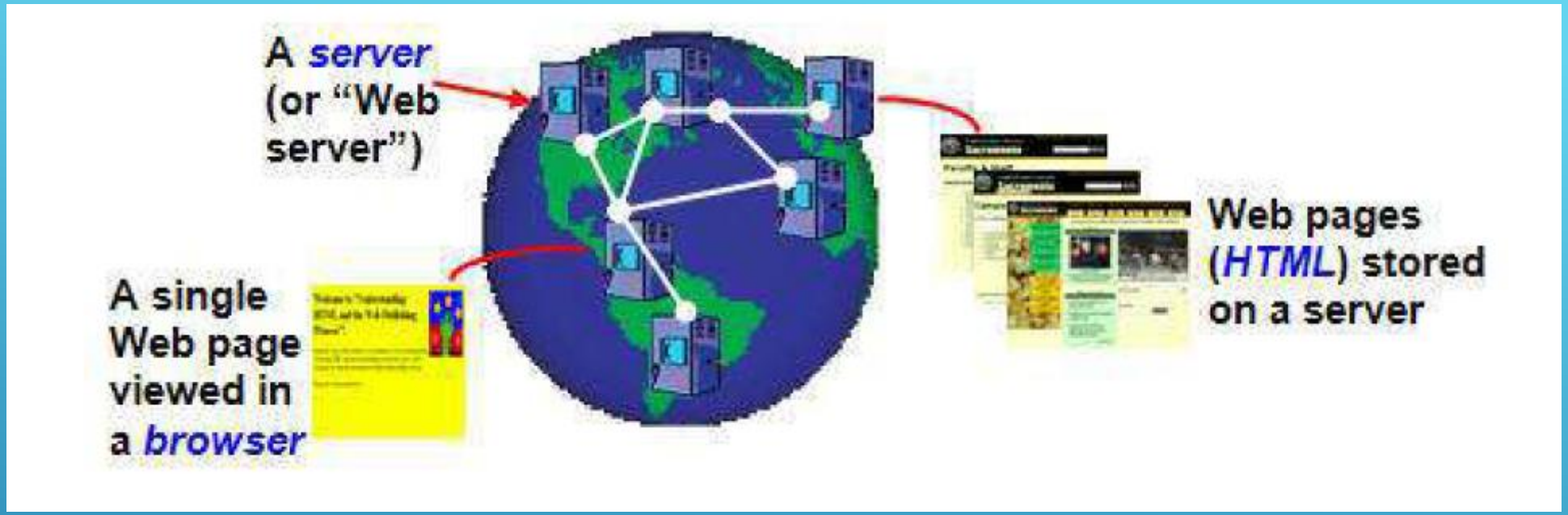
WHAT IS THE INTERNET AND WEB?

The Internet is a collection of computers around the world connected to each other via a highspeed series of networks. The World Wide Web – or *Web* – consists of a vast assortment of files and documents that are stored on these computers and written in some form of Hypertext Markup Language (**HTML**) that tells browsers how to display the information. The computers that store the files are called **servers** because they can serve requests from many users at the same time. Users access these HTML files and documents via applications called **browsers**.

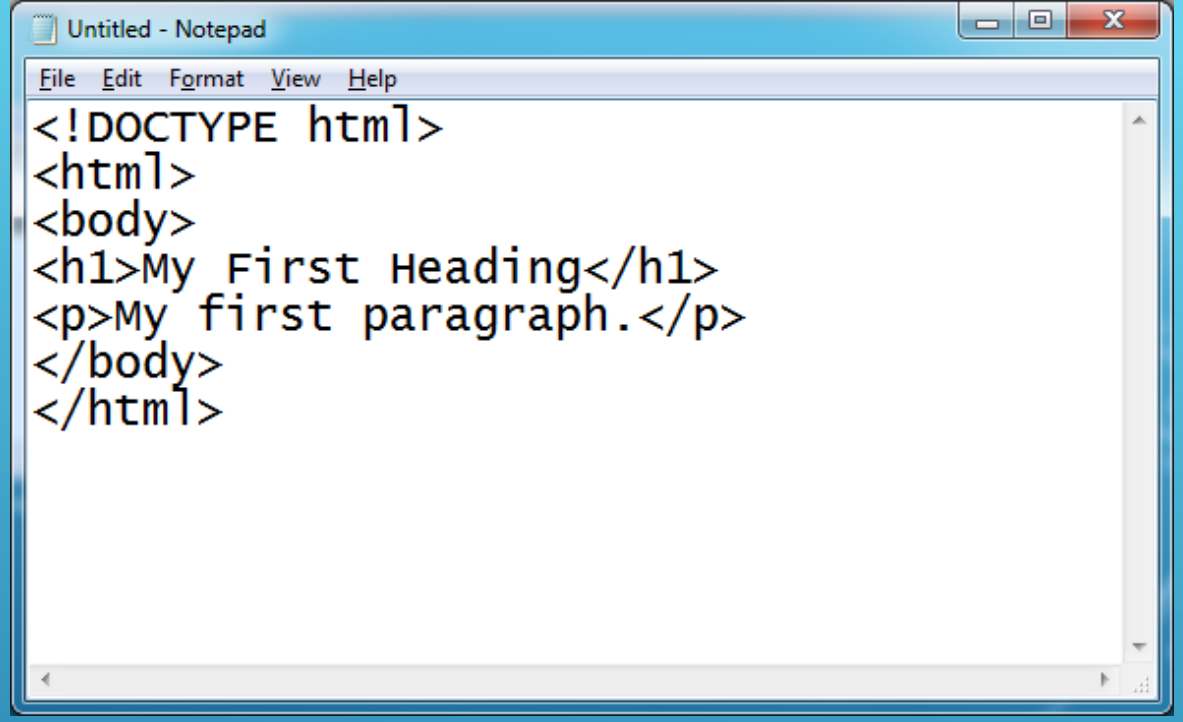
WHAT IS A WEBSITE?

A Website is a collection of webpages under a single domain(e.g. www.google.com). Webpages are hypertext documents which contain information about organization and are carried around the web. A browser is an application used to view webpages in other words the Web Browser creates the visual web page you see in the browser based on

the HTML code. So when you go on computer open your web browser and type in for example www.facebook.com your browser will send a request to what are called Domain Name Servers and these will

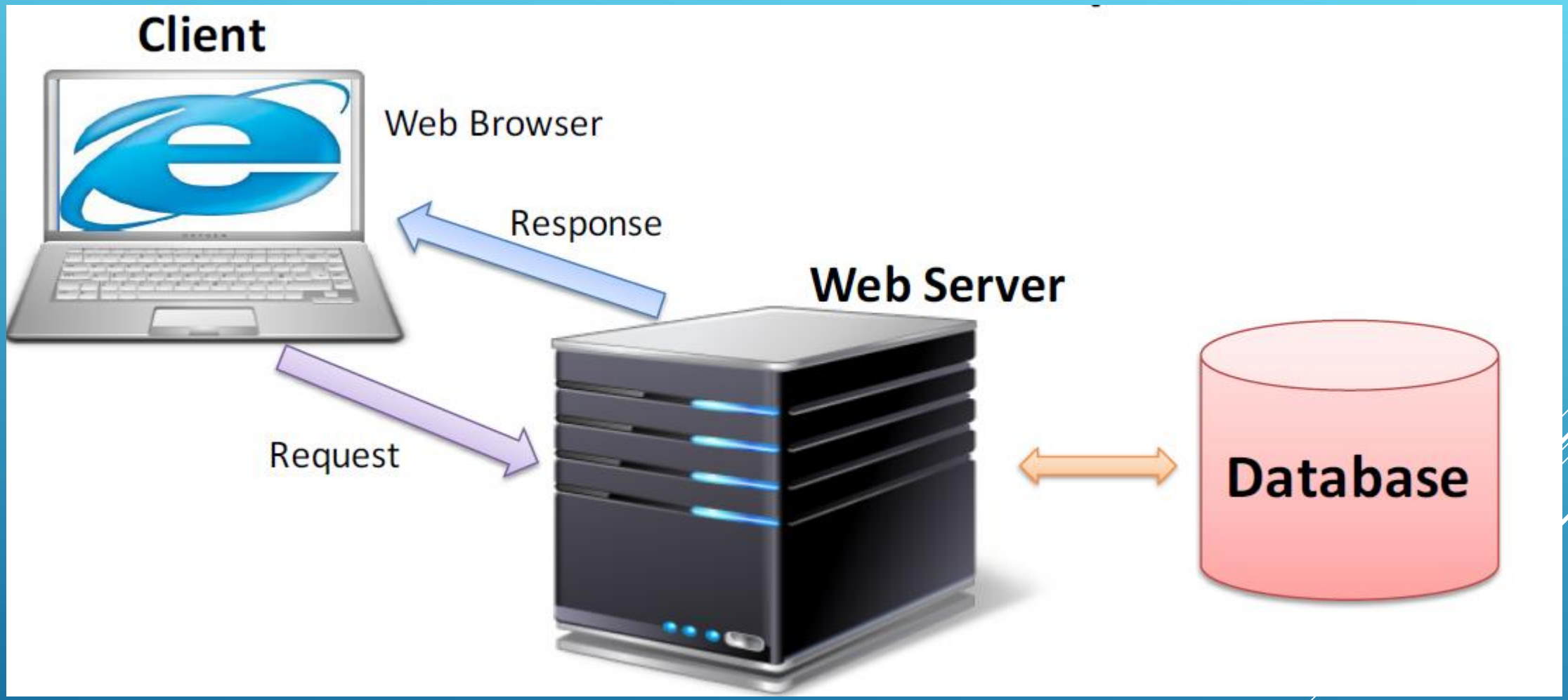

A server
(or "Web
server")
A single
Web page
viewed in
a browser
Web pages
(HTML) stored
on a server

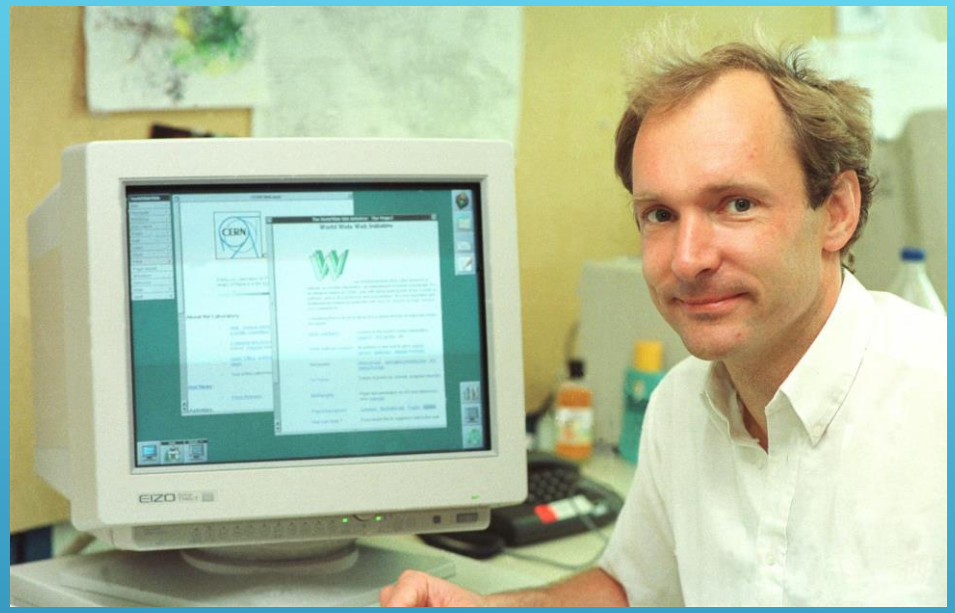
HTML



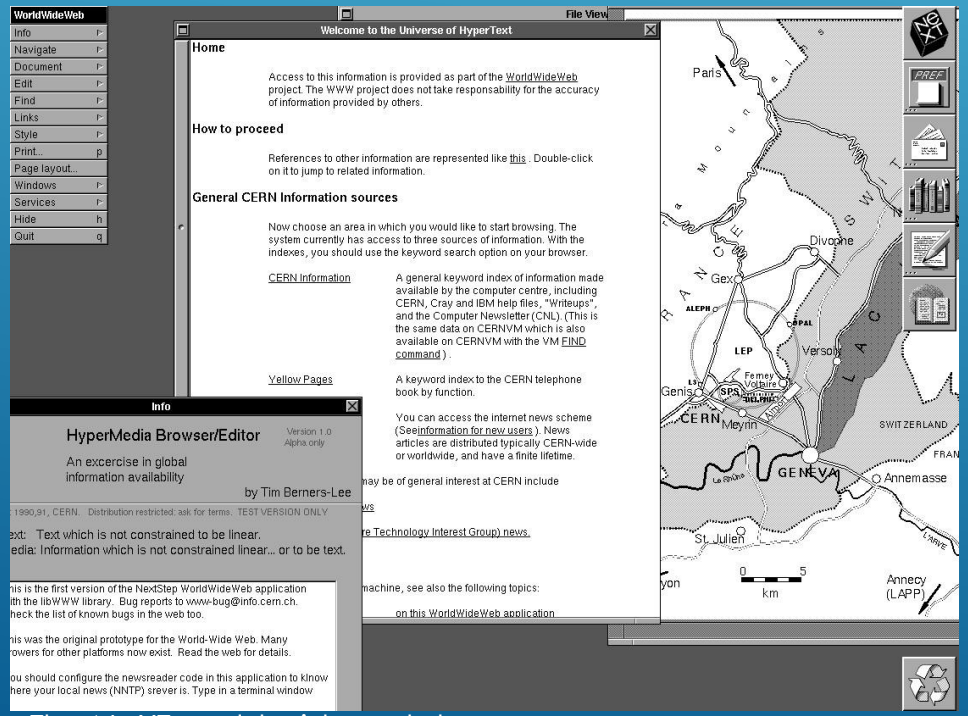
A webpage in HTML code and below in a web browser

HTML, or HyperText Markup Language, is the authoring language that describes how a Web page should be displayed by a Web browser. It has two essential features: hypertext and universality. Hypertext means when a visitor clicks a link on a Web page, the visitor is led to another Web page or document. Universality means that because HTML documents are saved as text files, virtually any computer can read a Web page


Client
Web Browser
Response
Web Server
Request
Database



Tim Berners-Lee



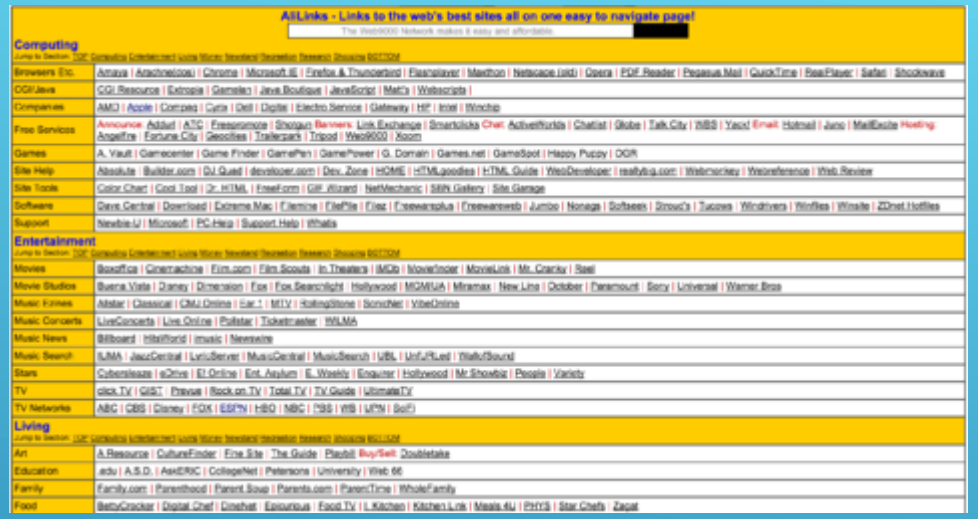
The NeXT world wide web browser.

HOW THE WEB STARTED

Tim Berners-Lee, a British scientist, invented the World Wide Web (WWW) in 1989, while working at CERN. The basic idea of the WWW was to merge the evolving technologies of computers, data networks and hypertext into a powerful and easy to use global information system. Tim Berners-Lee wrote the first proposal for the World Wide Web in March 1989 and his second proposal I 1990. Together with Belgian systems engineer Robert Cailliau, this was formalized as a management proposal in November 1990. This outlined the principal concepts and it defined important terms behind the Web. The document described a "hypertext project" called "**WorldWideWeb**" in which a "web" of "hypertext documents" could be viewed by “browsers”.

MTV's Landing page

HISTORY OF THE WEB



ALIWEB

Google Beta

WEB HISTORY TIMELINE

1993 – First search engine
1993 – Landing pages introduced(MTV)

1994 – First web browser (NETSCAPE) and JavaScript

1996 – Flash started

1998 – Google Beta goes live

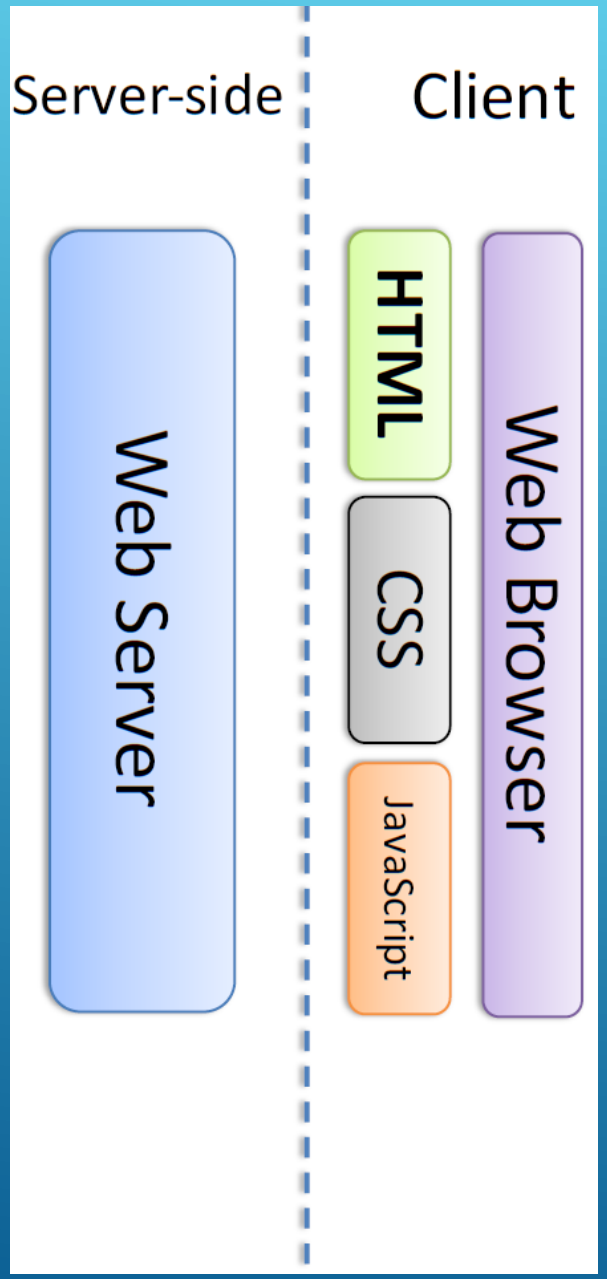
2000 – The Online Economy(Rise of PayPal)

2003 – WordPress

2004 – Your Space (also Facebook launched)

2006 – Facebook goes public

2007 – The iPhone is released



SO WHAT IS **WEB DEVELOPMENT**?

Web development comprises of designing ,programming ,setting up of websites among other things also. It can be separated into two parts which are Frontend Development and Backend Development. Frontend Development comprises of designing the virtual part(graphics) of websites using HTML ,CSS and JavaScript and this is the part which is shown to the client. Backend Development comprises of the programming and database work which happens at the server-side.

RESOURCES FOR THIS COURSE

1. HTML and CSS design and build websites by John Duckett
2. A Text Editor

   Windows : Notepad , Notepad++ and Sublime Text only

   Android : HTML editor
3. A web browser

   Windows : Google Chrome or Firefox

   Android : Google Chrome