

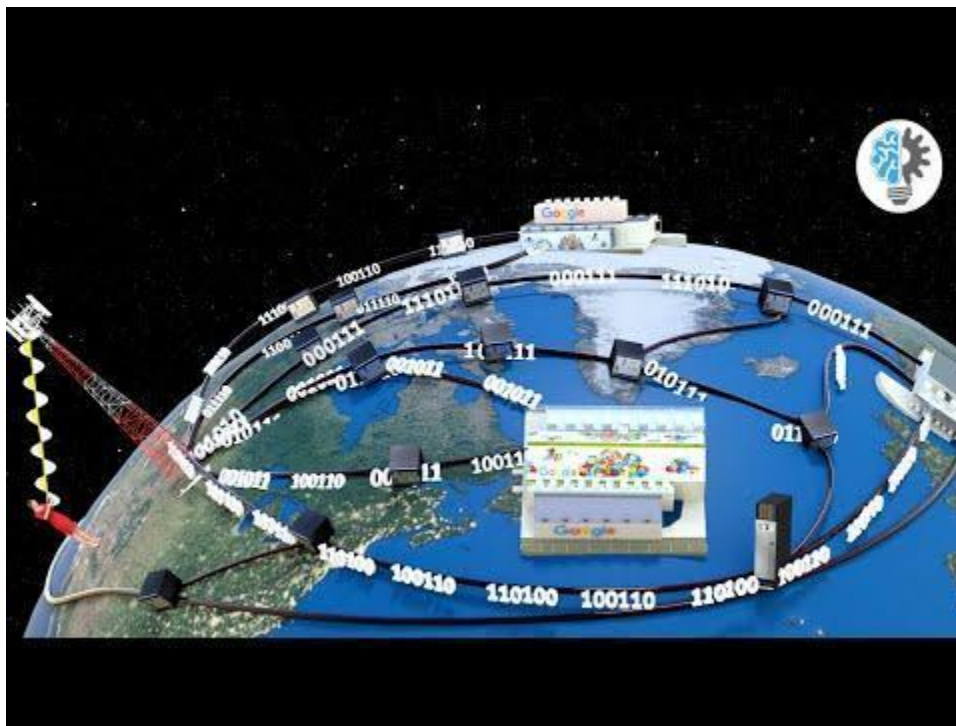
Module 2: Lecture Guide Part I

Overview:

In this module we will describe the general structure of electronic networks, social media platforms, applications, websites, and mobile media.

The history and growth of the Internet and the Web, including intranets and extranets and how they can be implemented using public network, private network, or VPN technologies. Read the following article, [How to connect to the internet](#) on the ways products connect to the internet and some key terms .

The following video gives a great overview on the Internet works in simple terms:



HTTP: Request and Response



"Hey example.com! Can you send me your homepage.html file please?"



Circuit Switching
Packet Switching



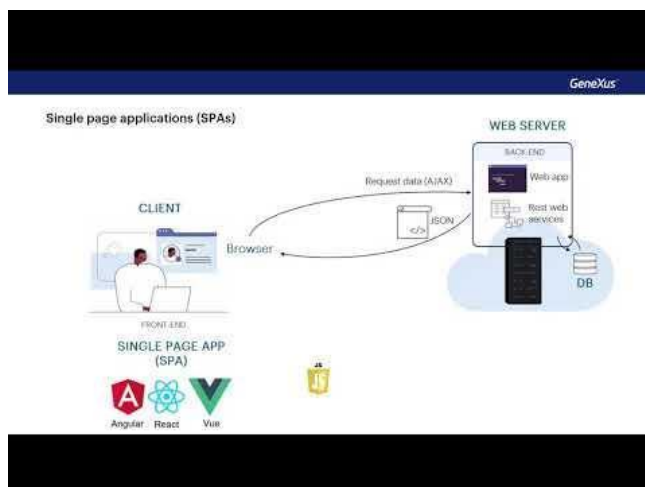
The video above talks about packets and protocols. The video tells us how IP addressing and domain names work; how HTTP provides rules for transferring Web pages and requests for those Web pages on the Internet; and that POP, SMTP, and IMAP are protocols that help manage e-mail. The history of

markup languages and how specific versions, including HTML, XHTML, and XML, are used to display Web pages and manage the data content behind them.

Social Networking Structure is also a very important concept. This video goes deep into what is a group versus a network.



Now it is time to apply some of the concepts within the videos above with web and mobile applications as shown in the video below:



Internet service providers offer many different types of wired connections to the Internet and that wireless connection options available through mobile phones and tablet devices are important pathways to the Internet, especially in developing countries. Internet2 is an experimental network built by a consortium of research universities and businesses to provide test bed for creating and perfecting the high-speed networking technologies of tomorrow and that the Semantic Web project is providing some commercial benefits while slowly moving toward its goal of making research data widely available and helping intelligent software agents become a productive part of electronic commerce.