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Weekly Summary 1

World Wide Web

•Sir Tim Berners-Lee conceptualized/created/invented (1989)

•function is to share hypertext documents

•Web Operation

User > Internet > Web Server > Data=Data > Web Server > Internet > User

-User initiates request on PC

-request travels in tiny packets of information (for quickness and efficiency) to web server where they are then reassembled

-web server accesses necessary databases for information for user’s request

-information from the databases that match search criteria is returned to webserver

-web server returns information for the search request to browser of the user

•Components of the Web

-Internet (Inter-network): connection of computers and information exchange

-World Wide Web: byproduct of Internet containing interlinked hypertext documents with links to other text

- World Wide Web Consortium (W3C): manages web and sets web standards

-IP Address: unique to server, contains 4 strings of numbers, comparable to building/home address, access internet via IP address

-Browser: used to search, send emails, shop, etc., serve as web clients that send requests and render response on screen

-Webserver: responds to browser requests and listens on server port for HTTP requests

-Hypertext Transfer Protocol (HTTP): Specification for how to handle requests

-Additional Components: Uniform Resource Locator (URL), Protocol, Port, Top-level-domain, sub-domain

Midterm Question:

Although society often uses the words “web” and “Internet” interchangeably, is it true or false the web and the Internet are actually not the same thing?