

ADDIS ABABA UNIVERSITY

ADDIS ABABA INSTITUTE OF TECHNOLOGY

CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC COMPUTING

**Assignment 1 Fundamental of Web Development**

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1.History of Internet evolution

The origins of the internet data back nearly 40 years with the U.S. military funding of research network subbed Arpanet in 1969. Since then, the Internet has undergone has more than just a name change. The number of computers connected to the Internet has grown exponentially, while the number of users has risen from beyond the United State to every corner of the globe. Internet has revolutionized the computer and communication world like nothing before. The invention of the telegraph, telephone, radio, and computer set the stage for this unprecedented integration of capabilities.

The first documented portrayal of the social interactions that could be enabled through networking was series of memos written by J.C.R Licklider of MIT in August 1962 discoursing his” Galactic Network” concept. He envisioned a globally organized set of computers through which everyone could quickly access data and programs from any site. In spirit, the concept was very much like the internet of today. Licklider was the first head of computer research program at DARPA (Defense Advanced Research Projects Agency).

The near indestructibility of information on the Internet derives from a military principle used in secure voice transmission: decentralization. In the early 1970s, the RAND Corporation developed a technology (later called “packet switching”) that allowed users to send secure voice messages. In contrast to a system known as the hub-and-spoke model, where the telephone operator (the “center”) would patch two people (the “bars”) through directly, this new system allowed for a voice message to be sent through an entire network, or web, of carrier lines, without the need to travel through a central hub, allowing for many different possible paths to the destination.

During the Cold War, the U.S. military was concerned about a nuclear attack destroying the center in its center-and-bar model; with this new web-like model, a secure voice transmission would be more likely to endure a large-scale outbreak. A web of data pathways would still be able to communicate secure voice “packets,” even if a few of the nodes places where the web of connections intersected were wrecked. Only through the destruction of all the nodes in the web could the data traveling along it be completely wiped out an unlikely event in the case of a highly decentralized network. This decentralized network could only function through common communication protocols. Just as we use certain protocols when communicating over a telephone “hello,” “goodbye,” and “hold on for a minute” are three examples any sort of machine-to-machine communication must also use protocols. These protocols constitute a shared language enabling computers to understand each other clearly and easily.

**The Building Blocks of the Internet**

In 1973, the U.S. Defense Advanced Research Projects Agency (DARPA) began research on protocols to allow computers to communicate over a distributed network. This work paralleled work done by the RAND Corporation, particularly in the realm of a web-based network model of communication. Instead of using electronic signals to send an unending stream of ones and zeros over a line (the equivalent of a direct voice connection), DARPA used this new packet-switching technology to send small bundles of data. This way, a message that would have been an unbroken stream of binary data extremely weak to errors and corruption could be packed as only a few hundred numbers.

2.View the 5-10 popular website of your choice from web archive URL and put your observation and assessment?

* Pahe Link(https://pahe.in/)
* Edx Link(https://www.edx.org)
* TEDEd Link(https://ed.ted.com)
* 123MOVIE
* Solo learn Link(https://www.sololearn.com/)

3.List 5 Website each on the 12 categories you learned?

3.1Entertainment Website

Pahe: - is entertainment website which provides us with a choice of downloading the movie that we want for free.

1. August 31 , 2014 and January 6 , 2020

229 captures or snapshot were taken. In 2014 it wasn’t crawled, 2015 ,2016 and also the layout was the same through out these years. And the layout from 2016 – 2020 the layout are the same, but different than those of the first and the layouts are amazing.

1377x: - is also like Pahe, but the difference is these website let’s you know when the movie are going to released and you can download the movies.

November 8 2014 – February 2 2020247 snapshots were taken in these times of years.

3.2 Education Website

Edx:- is educational website and from one of the most popular school of our Globe like Harvard University, Massachusetts Institute of Technology, Berkeley University of California, The University of Texas System of Educational website there is.

1. December 5 1998 – march 2 2020

this snapshot of 7176 captures were taken

TEDED: - is educational website its originated from the YouTube TEDX talk show which is the most inspiring talk show, they teach you in all aspect of life to make or prepare you for the problem that you might have in your future and they also talk about Technologies, medical staff and also a bunches of educational staffs.

1. April 20 2012 – February 21 2020

2,061 captures or snapshots were taken in these years and also these website let you teach or pitch your ideas worth spreading.

3.3 Portal website

Stanford University AXESS, Student & Faculty Portal: - Stanford University developed a united online platform called AXESS for the academic community to access information and record various transactions. The portal enables functions as related to student enrollment & financials, academic advising, teaching & grading, employment & training, and workflow-enabled administrative processes. The site is based on a user-centric design with modern UX standards.

1. January 20, 2002 – September 1, 2019

Wide Crawl Number 17: Started August 3, 2018. 724 captures or snapshots were taken.

UAB MEDICINE: - UAB’s top-ranked medical professionals found a platform through which they can reach many visitors and actual patients with health concerns. Their site hosts a free patient portal with a directory of various healthcare providers categorized by specialty, gender and location. It also features various subsections for knowledge about conditions and treatments, locations, contact info and FAQs.

1. March 23, 2016 – February 13 2019

30 capture or snapshots were taken and they have a research Learning Channel of MD.

3.4 News Website

BBC (British Broadcasting Corporation) News: -

1. December 1, 1998 – March 5, 2020

After 2003 the website Crawled till now.

CNN (Cable News Network) News: -

1. June 20 2000 – March 5, 2020

The Crawl happened ever since.

3.5 Business (Commercial or Marketing) Website

Traackr: - . Traackr June 2013 Explore Traackr The Influencer Marketing Platform @Traackr Traackr Quick Intro to Traackr: The Leading Influencer Marketing Platform

1. November 17, 2007 – March 5, 2020

The crawls happened between 2010 – 2019

Cotton & Company website: - Cotton & Company uses a clean layout that mixes attractive images and dynamic features — like virtual tours, preferred vendors from their farm area, and buyer/seller resources — placed prominently above the fold. Also, website visitors can easily start their property search in the header. The placement of these tools gives visitors the ability to view expert content and listing information quickly.

1. December 12, 1998 – August 7, 2019

3,089 were captured in these past years. The Crawls happened between 2002 – 2008.

3.6 Blog Website

Help Scout: - Help Scout, makers of customer service software, uses a unique but minimalist design on its blog that we love -- it limits the use of copy and visuals and embraces negative space.

1. November 1, 2010 – February 18,2020

Design Milk: - Design Milk, an online contemporary design outlet, uses a very simple layout to highlight its posts. The sidebar to the right which remains visible when a blog post is opened to read -- is perfect for showcasing thumbnail images for new articles.

a. August 12, 2006 – March 5, 2020

3.7 Wiki Website

WikiBooks:- WikiBooks makes our list of wiki sites thanks to its incredible repository of open-content textbooks, annotated texts, instructional guides, and manuals. It does not include fiction, primary research, or published texts.

The books are divided across nine primary categories: **Computing**, **Engineering**, **Humanities**, **Languages**, **Mathematics**, **Science**, **Social** **Sciences**, **Standard** **Curricula**, and **Kids’ books**. Each group is further subdivided for easy browsing.

1. December 18, 2003 – March 5, 2020

WikiTravel: - When you’re planning a holiday, you should give privately-owned websites like TripAdvisor a wide berth. The information on such sites can often be misleading; it’s hard to differentiate the paid promotions from the legitimate content. And that’s before you start worrying about the ongoing issue of fake reviews.

Wikitravel is a much better source of information. It’s been online since 2003 and is overseen by a team of administrators. They can roll back unwanted edits, delete pages, lock pages, and generally keep the information on the site accurate and free of spam.

1. August 7, 2003 – February 29 2020

3.8 Social Network Website

Facebook: - Facebook is the biggest social media site around, with more than two billion people using it every month. That’s almost a third of the world’s population! There are more than 65 million businesses using Facebook Pages and more than six million advertisers actively promoting their business on Facebook, which makes it a pretty safe bet if you want to have a presence on social media.

1. December 12, 1998 – March 5, 2020

YouTube: - YouTube is a video-sharing platform where users watch a billion hour of videos every day. To get started, you can create a YouTube channel for your brand where you can upload videos for your subscribers to view, like, comment, and share.

Besides being the second biggest social media site, YouTube (owned by Google) is also often known as the second largest search engine after Google. (So if you want your brand to be on YouTube, I would recommend reading up on YouTube SEO.)

1. April 28, 2005 – March 5, 2020

3.9 Content Aggregator Website

Alltop: - Alltop pulls in the latest posts from websites on a variety of topics. What’s neat about Alltop is that you can search for specific topics and then view aggregated content from some of the top blogs for that specific topic.

You can also submit your own site to be listed on Alltop, though Alltop is known for being fairly picky about the sites that it accepts.

1. May 18, 2001 – February 29, 2020

Popurls: - With that endorsement, it’s no surprise that Popurls, branded as the “mother of all news aggregation,” sits at #2 on our list.

Popurls pulls in content from a variety of social networks, blogs, and news organizations. It’s quite eclectic in its content – with my favorite example being BuzzFeed and The New York Times sitting side-by-side. How’s that for contrast?

1. January 10, 2006 – February 24 2020

3.10 Personal Website

3.11 Advocacy Website

3.12 Information Website

4.What are the guidelines for evaluating the value of a website?

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