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INTRODUCTION TO WEB DEVELOPMENT

PORTFOLIO

TASK 1

Research Document

Web Accessibility Research (KU3)

Before starting any work related to the website itself, conduct some research into the topic of Web Accessibility. To better understand this topic, you are required to visit a number of existing websites and pinpoint where these principles are applied or where they are skipped, leading to accessibility issues.

In not less than **500 words**, make sure to explain what Web Accessibility is, detailing some of its principles with examples from existing website, and giving some examples of what aspects of Web Accessibility you intend to implement in your own project.

What is Web Accessibility ?



Web accessibility ensures websites are usable by all, including people with disabilities. It involves providing text alternatives, keyboard navigation, clear structure, and compatibility with assistive technologies. Following guidelines like **WCAG** (Web Content Accessibility Guidelines) ensures inclusivity for users with visual, hearing, motor, or cognitive impairments.



The WCAG consists of **POUR** principles, which are (Perceivable, Operable, Understandable, Robust).

Perceivable : means making content accessible with captions, alt text, and good color contrast for all users.

Operable : ensures users can navigate with a mouse, keyboard, or touchscreen, avoiding one-way interactions.

Understandable : means clear, easy-to-read content, with helpful instructions and error messages that make sense.

Robust : ensures content works across devices and assistive tech, like screen readers or older browsers.

NETFLIX – Accessibility Practices

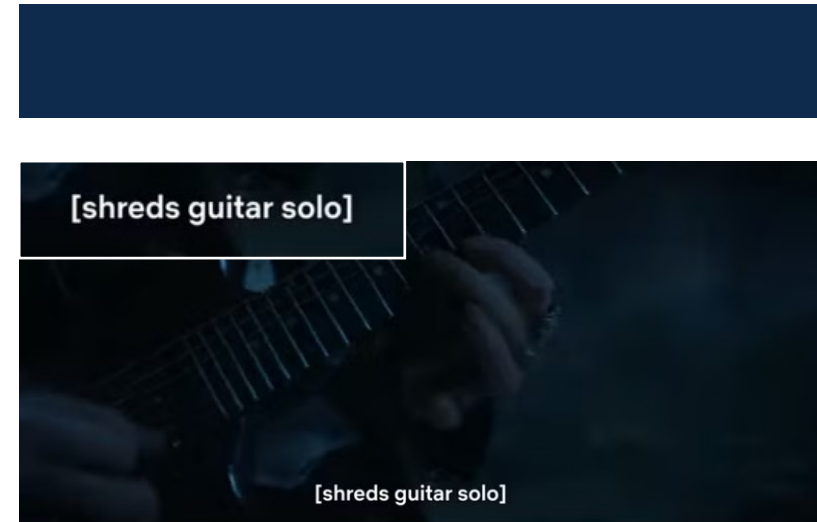
Netflix is one of the most popular streaming services globally, and it has made significant strides in providing accessibility features for users including users with disabilities. The platform provides a variety of options to ensure that content is accessible to a broader audience, including people with visual, hearing, and motor impairments.

Perceivable: Netflix does a great job providing alternatives for visual content. Most of its videos offer captions and subtitles, making it accessible to users with hearing impairments. It also offers audio descriptions for visually impaired users, describing what's happening on screen (ex: “car honk”).

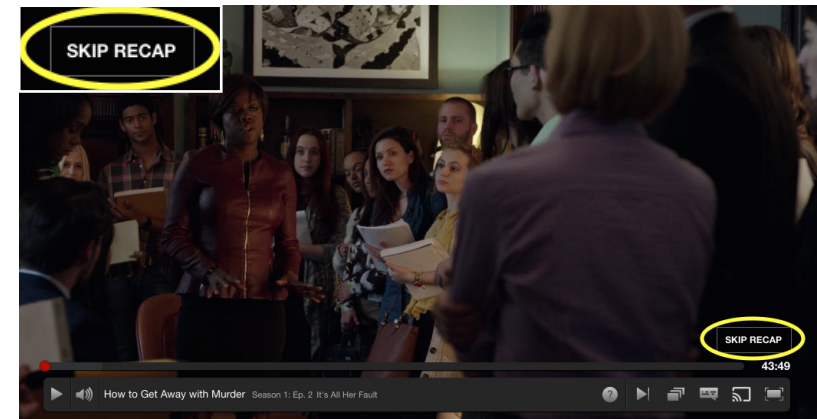
Operable: Netflix supports full keyboard navigation on web browsers. Users can easily navigate between rows, play videos, pause, and skip episodes without needing a mouse. The Skip Intro and Skip Recap buttons are also prominently displayed and can be activated either with a remote, keyboard, or screen reader, enabling users to skip repetitive content easily. This feature improves the overall operability by allowing users to control their viewing experience.

Understandable: Netflix’s interface is intuitive and easy to navigate. The layout is simple, with large, easily identifiable icons for categories, movies, and TV shows. This straightforward design helps users quickly understand where to go and what actions they can take, the font size is consistent and legible across the platform, which improves readability.

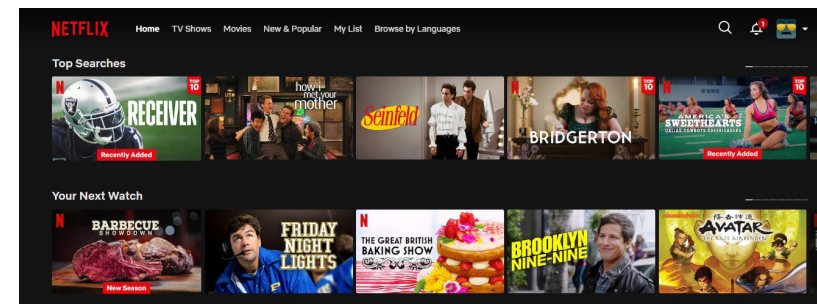
Robust: Netflix is designed to work on a wide range of devices, from smart TVs to smartphones, tablets, laptops, and also game consoles. Netflix also uses semantic HTML in its web app, which is essential for making the content understandable by assistive technologies. The proper use of HTML elements like headings, buttons, and links ensures that screen readers can interpret the content correctly, providing a better experience for users with or without disabilities. Netflix uses CDNs (Content Delivery Networks) to ensure a stable and reliable streaming experience. This helps maintain performance across regions and ensures users with varying internet speeds and conditions can still access the content without loading issues.



Netflix's Stranger Things Subtitles.



Skip Recap Button.



Netflix Home Screen.

123MOVIES – Accessibility Practices

Watch Your Favorite Movies Online

123Movies is a free streaming site where you can watch movies and TV shows without signing up. Unlike legit platforms like Netflix, it's not officially licensed and often changes its web address to stay online. While it's super easy to access content, it's not very user-friendly for people with disabilities compared to Netflix.

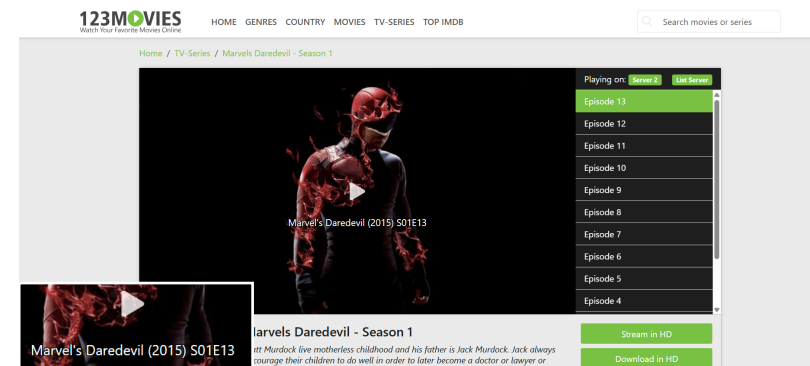
Perceivable: 123Movies, being an unofficial streaming site, lacks accessibility features like closed captions, audio descriptions, and customizable subtitle options, which Netflix is good at. While some videos on 123Movies have built-in subtitles, they are not always available or customizable. Sometimes 123Movies, if and when they do have subtitles, they tend to be 3-5 seconds delayed from the actual narrative, you would see a subtitle text (Car Honk) then hear it 5 seconds later.

Operable: Unlike Netflix, 123Movies does not offer full keyboard navigation support. Users relying on only a keyboard or screen readers may struggle with the site's interface, which often lacks proper focus indicators and keyboard shortcuts.

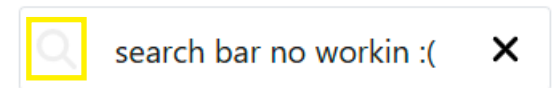
Understandable: Netflix maintains a clear and consistent user interface with intuitive labels and menus, whereas 123Movies, although it doesn't have an entirely bad design, it often has confusing layouts with misleading buttons (e.g., fake "Play" buttons leading to ads). This makes it difficult for users to understand how to access content safely especially for the elder.

Robust: Netflix is designed to be compatible with various devices, browsers, and assistive technologies, whereas 123Movies is far less reliable. The site may not work consistently across all devices, and it lacks proper semantic HTML and screen reader support, making it inaccessible for users relying on assistive technologies. Also, 123Movies often goes offline or changes domains, disrupting the user experience, while Netflix ensures long-term platform stability.

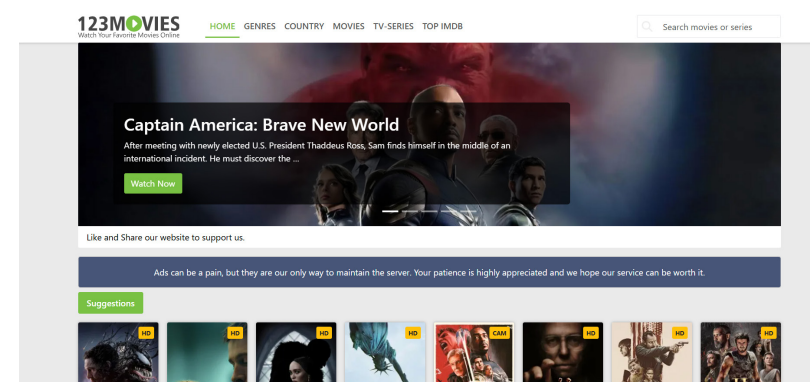
In conclusion, 123Movies is free but unsafe for kids and elderly users due to 18+ pop-ups, scams, and tricky navigation, while Ad-Blockers may help, 123Movies can also give you harmful Viruses to your device. Netflix, while paid, is 100% safer with parental controls, no ads, and a user-friendly design.



123Movies's Fake Button That Leads to a Pop-up.



Search Bar button not working, unless you press enter.



123Movies Home Screen.

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