A10. Create and Display Cookies – Ethics

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Repository Link – https://github.com/Sameed-S/A10

Index Page Link – https://github.com/Sameed-S/A10/index.html

**Part 1**

1. Cookies are a small piece of data the website stores on users' devices to remember information about them is to navigate through the website. These cookies can require various details, including user preferences, login credentials, browsing activities, and shopping cart items. As a user interacts with different pages, the cookies collect data and send it back to the website server, enabling personalized experience and targeted advertising.

Moreover, cookies serve as an essential tool for website functionality allowing sites to deliver Dynamic content and tailored experiences for individual users. For instance, cookies enable websites to remember users' language preferences, making it easier for them to access content in their preferred language without repeatedly having to select it. Additionally, cookies play a crucial role in e-commerce platforms by storing items and users' cards across sessions, facilitating a seamless shopping experience.

1. The use of cookies has both positive and negative aspects.

**Positive aspects include.**

* Enhanced user experience: Cookies allow websites to remember user preferences and settings providing a personalized browsing experience.
* Improved website functionality: Cookies help websites remember items in shopping carts, login credentials, and other necessary information streamlining the user experience.
* Targeted advertising: Cookies tracks users browsing behavior allowing websites to display relevant ads based on their interests and preferences.

**Negative aspects include.**

* Privacy concern: Cookies can track users' online activities and collect personal information without their consent, raising some privacy issues.
* Security risks: Malicious actors can exploit cookies to steal sensitive information such as login credentials and financial data posing security risks to users.
* Lack of transparency: Users may not be aware of the extent to which websites use cookies to collect and track their data leading to concerns about transparency and control over personal information.

1. The use of cookies raises ethical considerations. While cookies can enhance user experience and website functionality, they also pose privacy and security risk risks. Since they also have the potential to track users' online activities without explicit consent. This capability can lead to privacy breaches and unauthorized access to sensitive information. Furthermore, cookies may be exploited by malicious actors to gather personal data for targeted advertising or other nefarious purposes, opposing significant risks to user privacy and security. It is essential for website operators to be transparent about their use of cookies and obtain user consent before collecting and tracking their data. Additionally, measures should be put in place to safeguard users' privacy and security, such as encryption and data and anonymization techniques. Ultimately, the ethical use of cookies requires a balance between providing a personalized user experience and protecting users' privacy and security.