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## **THE IMPORTANCE OF HTTP AND HTTPS**

HTTP stands for “Hypertext Transfer Protocol”. In the most basic form, it allows for exchanging information between different systems. HTTP provides communication between a browser and server, where websites are hosted. In order to get access to different websites, you make a request which should be received by the server. It’s the protocol that was used for basically all early websites.

HTTPS is the most progressive kind of protocol. The “S” in HTTPS means “Secure”. It’s the special version of the basic “hypertext transfer protocol” which was created by combining HTTP and another “Secure Sockets Layer” protocol.

This protocol facilitates an extra level of security and makes authentication on the websites possible.

But why do we need HTTPS? It could be used only for e-mail and e-retailers or anyone else accepting online payments in order to send confidential payment details securely. Though progress does not stand still and nowadays HTTPS is adopted for cloud applications to provide safety of your accounts and data.

HTTPS is especially significant for developers. The presence of this prefix promotes SEO advancement. Switching over to secure protocol provides increasing of your website rankings.

To understand the efficiency of HTTPS we should know how it works. This is why we need to bear in mind our last time when we logged in. To verify your username and password the browser must compare these fields with correct ones which are kept on the server. While data transmit it becomes easily accessible for malicious hacking activities. Therefore all data are encrypted by your browser, which has a public key. When symbols reach the web server where the private key is stored, they are decrypted. If somebody steals your personal information he/she cannot decode it due to the absence of the private key.

So, the importance of HTTP and HTTPS cannot be overestimated. Every user should try to protect his/her personal data applying any means of security and these protocols as well.