HTTP PROTOCOL IN MODERN INTERNET

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ABSTRACT:

The hypertext transfer protocol (http) is a crucial part of the internet communication system, serving as the foundation for transmitting data over the world wide web. The aim of this project is to thoroughly examine the design, architecture, and implementation of http. The study will start by giving an overview of the protocol's evolution, starting with http/1.0 and ending with the current version, http/2, while highlighting the advancements made in each iteration. The different components of http will be analyzed in detail, including its methods (get, post, etc.), status codes, headers, and cookies, to provide a clear understanding of how these elements work together to allow for effective communication between clients and servers.

Additionally, the project will delve into the security concerns surrounding http, such as cross-site scripting, cross-site request forgery, and man-in-the-middle attacks, and the measures that can be taken to counteract these threats, such as encryption. The project will conclude by summarizing the current state of http and exploring future developments and trends, including new technologies like http/3, which aim to improve the protocol's performance and security. The end result of this project will be a comprehensive understanding of http and its significance in the modern web.