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Web Development

Skill overview

— Web Development
   Overview

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— Web Applications Concepts

   Objectives: Web   ○
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What are web applications?

Web applications are applications that a user views in a Web browser. A web browser reads Hypertext Markup Language (HTML) and uses it to render text, images, and controls, such as text input fields, buttons, and hyperlinks. The Web browser receives the HTML by connecting to an application server by using the Hypertext Transfer Protocol (HTTP). An *application server* is software that runs on a computer and is accessible on a network through the user's web browser.

When the internet was first conceived, it was designed to act as a medium for content producers (universities, organizations, book authors, and so on) to deliver content to content consumers (students, fans, readers, and so on). To achieve this goal, some important technologies were developed.

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HTML was developed as a relatively simple language that allows content creators to write content that can be displayed on any PC, regardless of its operating system.

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HTTP

HTTP is another important technology. HTTP is the network protocol that allows a web server to send HTML pages to client machines, regardless of their hardware or operating system.

Javascript

As the internet grew to be an integral part of our lives, our expectations grew. Consumers were no longer content with passively reading content. People wanted to do stuff, such as shop online, participate in online discussions, and manage their bank accounts. To enable this interactivity, other technologies were needed. The HTML was extended by the addition of JavaScript, which allowed web developers to make the page more interactive by writing code that runs inside the browser.

Application servers

Application servers are also used to allow developers to write programs that run on the server and respond to user activities. For example, when the user buys an item

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on the app server must issue the invoice and inform the warehouse to ship the
merchandise. Some of the most well-known programming languages that are used

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