

Front end components

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HTML

browser interprets and renders elements
to user

displayed in tree form like XML

URL encoding

percent encoding

a browser needs to know the charset
to use to properly display page's content

URLS can only use ASCII

therefore all non-alphanumeric and
other ASCII chars need to
be encoded

replaces with % and 2 hex

replaces with
digits

DOM - platform and language neutral interface that allows programs and scripts to dynamically access and update content, structure, and style

DOM standard

- core DOM - standard for all doc types
- XML DOM - standard for XML docs
- HTML DOM

from the treeview we can reference elements like
document.head

document.head
document.h1

Cascading style sheets (CSS)

format and set style of HTML
elements

Used for styling, formatting, animation

Javascript

functionality that frontend requires

held in <script> tags

can be used for complex processes
and perform HTTP requests to
interact w/ backend through Ajax

Modern browsers can execute javascript
code on client-side w/out relying
on backend