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
```