

dynamic web ui

ui = data + style + behaviour

web ui = html + css + javascript

why we need javascript programs with HTML-page(s) in browser environment?



using browser provided 'APIs', .js programs can bring any dynamic-ui activity to web-page



browser apis are based on w3c standards

DOM,XHR/Fetch,Timer apis are implemented by browser vendors (chrome, firefox, IE/Edge..) natively, and abstracted as '**javascript**' objects & functions

DOM api

- create, retrieve, update, delete HTML elements
- can change HTML-element's style (css)

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- can change HTML-element's inner content
- can change HTML-element's attributes/properties
- can validate all form-fields before submit to server-side-programs
- can create rich/user-friendly UI components to HTML-page like calendar, autocomplete,...
- can listen events (mouse, keyboard events) on HTML elements

Timer api

• can execute some actions on timeout or time-interval

XHR or fetch apis

can communicate with server-side programs async

dynamic web ui 2