{"version":3,"file":"event-handler.js","sources":["../../src/dom/event-handler.js"],"sourcesContent":["/\*\*\n \* --------------------------------------------------------------------------\n \* Bootstrap (v5.2.0): dom/event-handler.js\n \* Licensed under MIT (https://github.com/twbs/bootstrap/blob/main/LICENSE)\n \* --------------------------------------------------------------------------\n \*/\n\nimport { getjQuery } from '../util/index'\n\n/\*\*\n \* Constants\n \*/\n\nconst namespaceRegex = /[^.]\*(?=\\..\*)\\.|.\*/\nconst stripNameRegex = /\\..\*/\nconst stripUidRegex = /::\\d+$/\nconst eventRegistry = {} // Events storage\nlet uidEvent = 1\nconst customEvents = {\n mouseenter: 'mouseover',\n mouseleave: 'mouseout'\n}\n\nconst nativeEvents = new Set([\n 'click',\n 'dblclick',\n 'mouseup',\n 'mousedown',\n 'contextmenu',\n 'mousewheel',\n 'DOMMouseScroll',\n 'mouseover',\n 'mouseout',\n 'mousemove',\n 'selectstart',\n 'selectend',\n 'keydown',\n 'keypress',\n 'keyup',\n 'orientationchange',\n 'touchstart',\n 'touchmove',\n 'touchend',\n 'touchcancel',\n 'pointerdown',\n 'pointermove',\n 'pointerup',\n 'pointerleave',\n 'pointercancel',\n 'gesturestart',\n 'gesturechange',\n 'gestureend',\n 'focus',\n 'blur',\n 'change',\n 'reset',\n 'select',\n 'submit',\n 'focusin',\n 'focusout',\n 'load',\n 'unload',\n 'beforeunload',\n 'resize',\n 'move',\n 'DOMContentLoaded',\n 'readystatechange',\n 'error',\n 'abort',\n 'scroll'\n])\n\n/\*\*\n \* Private methods\n \*/\n\nfunction makeEventUid(element, uid) {\n return (uid && `${uid}::${uidEvent++}`) || element.uidEvent || uidEvent++\n}\n\nfunction getElementEvents(element) {\n const uid = makeEventUid(element)\n\n element.uidEvent = uid\n eventRegistry[uid] = eventRegistry[uid] || {}\n\n return eventRegistry[uid]\n}\n\nfunction bootstrapHandler(element, fn) {\n return function handler(event) {\n hydrateObj(event, { delegateTarget: element })\n\n if (handler.oneOff) {\n EventHandler.off(element, event.type, fn)\n }\n\n return fn.apply(element, [event])\n }\n}\n\nfunction bootstrapDelegationHandler(element, selector, fn) {\n return function handler(event) {\n const domElements = element.querySelectorAll(selector)\n\n for (let { target } = event; target && target !== this; target = target.parentNode) {\n for (const domElement of domElements) {\n if (domElement !== target) {\n continue\n }\n\n hydrateObj(event, { delegateTarget: target })\n\n if (handler.oneOff) {\n EventHandler.off(element, event.type, selector, fn)\n }\n\n return fn.apply(target, [event])\n }\n }\n }\n}\n\nfunction findHandler(events, callable, delegationSelector = null) {\n return Object.values(events)\n .find(event => event.callable === callable && event.delegationSelector === delegationSelector)\n}\n\nfunction normalizeParameters(originalTypeEvent, handler, delegationFunction) {\n const isDelegated = typeof handler === 'string'\n // todo: tooltip passes `false` instead of selector, so we need to check\n const callable = isDelegated ? delegationFunction : (handler || delegationFunction)\n let typeEvent = getTypeEvent(originalTypeEvent)\n\n if (!nativeEvents.has(typeEvent)) {\n typeEvent = originalTypeEvent\n }\n\n return [isDelegated, callable, typeEvent]\n}\n\nfunction addHandler(element, originalTypeEvent, handler, delegationFunction, oneOff) {\n if (typeof originalTypeEvent !== 'string' || !element) {\n return\n }\n\n let [isDelegated, callable, typeEvent] = normalizeParameters(originalTypeEvent, handler, delegationFunction)\n\n // in case of mouseenter or mouseleave wrap the handler within a function that checks for its DOM position\n // this prevents the handler from being dispatched the same way as mouseover or mouseout does\n if (originalTypeEvent in customEvents) {\n const wrapFunction = fn => {\n return function (event) {\n if (!event.relatedTarget || (event.relatedTarget !== event.delegateTarget && !event.delegateTarget.contains(event.relatedTarget))) {\n return fn.call(this, event)\n }\n }\n }\n\n callable = wrapFunction(callable)\n }\n\n const events = getElementEvents(element)\n const handlers = events[typeEvent] || (events[typeEvent] = {})\n const previousFunction = findHandler(handlers, callable, isDelegated ? handler : null)\n\n if (previousFunction) {\n previousFunction.oneOff = previousFunction.oneOff && oneOff\n\n return\n }\n\n const uid = makeEventUid(callable, originalTypeEvent.replace(namespaceRegex, ''))\n const fn = isDelegated ?\n bootstrapDelegationHandler(element, handler, callable) :\n bootstrapHandler(element, callable)\n\n fn.delegationSelector = isDelegated ? handler : null\n fn.callable = callable\n fn.oneOff = oneOff\n fn.uidEvent = uid\n handlers[uid] = fn\n\n element.addEventListener(typeEvent, fn, isDelegated)\n}\n\nfunction removeHandler(element, events, typeEvent, handler, delegationSelector) {\n const fn = findHandler(events[typeEvent], handler, delegationSelector)\n\n if (!fn) {\n return\n }\n\n element.removeEventListener(typeEvent, fn, Boolean(delegationSelector))\n delete events[typeEvent][fn.uidEvent]\n}\n\nfunction removeNamespacedHandlers(element, events, typeEvent, namespace) {\n const storeElementEvent = events[typeEvent] || {}\n\n for (const handlerKey of Object.keys(storeElementEvent)) {\n if (handlerKey.includes(namespace)) {\n const event = storeElementEvent[handlerKey]\n removeHandler(element, events, typeEvent, event.callable, event.delegationSelector)\n }\n }\n}\n\nfunction getTypeEvent(event) {\n // allow to get the native events from namespaced events ('click.bs.button' --> 'click')\n event = event.replace(stripNameRegex, '')\n return customEvents[event] || event\n}\n\nconst EventHandler = {\n on(element, event, handler, delegationFunction) {\n addHandler(element, event, handler, delegationFunction, false)\n },\n\n one(element, event, handler, delegationFunction) {\n addHandler(element, event, handler, delegationFunction, true)\n },\n\n off(element, originalTypeEvent, handler, delegationFunction) {\n if (typeof originalTypeEvent !== 'string' || !element) {\n return\n }\n\n const [isDelegated, callable, typeEvent] = normalizeParameters(originalTypeEvent, handler, delegationFunction)\n const inNamespace = typeEvent !== originalTypeEvent\n const events = getElementEvents(element)\n const storeElementEvent = events[typeEvent] || {}\n const isNamespace = originalTypeEvent.startsWith('.')\n\n if (typeof callable !== 'undefined') {\n // Simplest case: handler is passed, remove that listener ONLY.\n if (!Object.keys(storeElementEvent).length) {\n return\n }\n\n removeHandler(element, events, typeEvent, callable, isDelegated ? handler : null)\n return\n }\n\n if (isNamespace) {\n for (const elementEvent of Object.keys(events)) {\n removeNamespacedHandlers(element, events, elementEvent, originalTypeEvent.slice(1))\n }\n }\n\n for (const keyHandlers of Object.keys(storeElementEvent)) {\n const handlerKey = keyHandlers.replace(stripUidRegex, '')\n\n if (!inNamespace || originalTypeEvent.includes(handlerKey)) {\n const event = storeElementEvent[keyHandlers]\n removeHandler(element, events, typeEvent, event.callable, event.delegationSelector)\n }\n }\n },\n\n trigger(element, event, args) {\n if (typeof event !== 'string' || !element) {\n return null\n }\n\n const $ = getjQuery()\n const typeEvent = getTypeEvent(event)\n const inNamespace = event !== typeEvent\n\n let jQueryEvent = null\n let bubbles = true\n let nativeDispatch = true\n let defaultPrevented = false\n\n if (inNamespace && $) {\n jQueryEvent = $.Event(event, args)\n\n $(element).trigger(jQueryEvent)\n bubbles = !jQueryEvent.isPropagationStopped()\n nativeDispatch = !jQueryEvent.isImmediatePropagationStopped()\n defaultPrevented = jQueryEvent.isDefaultPrevented()\n }\n\n let evt = new Event(event, { bubbles, cancelable: true })\n evt = hydrateObj(evt, args)\n\n if (defaultPrevented) {\n evt.preventDefault()\n }\n\n if (nativeDispatch) {\n element.dispatchEvent(evt)\n }\n\n if (evt.defaultPrevented && jQueryEvent) {\n jQueryEvent.preventDefault()\n }\n\n return evt\n }\n}\n\nfunction hydrateObj(obj, meta) {\n for (const [key, value] of Object.entries(meta || {})) {\n try {\n obj[key] = value\n } catch {\n Object.defineProperty(obj, key, {\n configurable: true,\n get() {\n return value\n }\n })\n }\n }\n\n return obj\n}\n\nexport default EventHandler\n"],"names":["namespaceRegex","stripNameRegex","stripUidRegex","eventRegistry","uidEvent","customEvents","mouseenter","mouseleave","nativeEvents","Set","makeEventUid","element","uid","getElementEvents","bootstrapHandler","fn","handler","event","hydrateObj","delegateTarget","oneOff","EventHandler","off","type","apply","bootstrapDelegationHandler","selector","domElements","querySelectorAll","target","parentNode","domElement","findHandler","events","callable","delegationSelector","Object","values","find","normalizeParameters","originalTypeEvent","delegationFunction","isDelegated","typeEvent","getTypeEvent","has","addHandler","wrapFunction","relatedTarget","contains","call","handlers","previousFunction","replace","addEventListener","removeHandler","removeEventListener","Boolean","removeNamespacedHandlers","namespace","storeElementEvent","handlerKey","keys","includes","on","one","inNamespace","isNamespace","startsWith","length","elementEvent","slice","keyHandlers","trigger","args","$","getjQuery","jQueryEvent","bubbles","nativeDispatch","defaultPrevented","Event","isPropagationStopped","isImmediatePropagationStopped","isDefaultPrevented","evt","cancelable","preventDefault","dispatchEvent","obj","meta","key","value","entries","defineProperty","configurable","get"],"mappings":";;;;;;;;;;;EAAA;EACA;EACA;EACA;EACA;EACA;EAIA;EACA;EACA;;EAEA,MAAMA,cAAc,GAAG,oBAAvB,CAAA;EACA,MAAMC,cAAc,GAAG,MAAvB,CAAA;EACA,MAAMC,aAAa,GAAG,QAAtB,CAAA;EACA,MAAMC,aAAa,GAAG,EAAtB;;EACA,IAAIC,QAAQ,GAAG,CAAf,CAAA;EACA,MAAMC,YAAY,GAAG;EACnBC,EAAAA,UAAU,EAAE,WADO;EAEnBC,EAAAA,UAAU,EAAE,UAAA;EAFO,CAArB,CAAA;EAKA,MAAMC,YAAY,GAAG,IAAIC,GAAJ,CAAQ,CAC3B,OAD2B,EAE3B,UAF2B,EAG3B,SAH2B,EAI3B,WAJ2B,EAK3B,aAL2B,EAM3B,YAN2B,EAO3B,gBAP2B,EAQ3B,WAR2B,EAS3B,UAT2B,EAU3B,WAV2B,EAW3B,aAX2B,EAY3B,WAZ2B,EAa3B,SAb2B,EAc3B,UAd2B,EAe3B,OAf2B,EAgB3B,mBAhB2B,EAiB3B,YAjB2B,EAkB3B,WAlB2B,EAmB3B,UAnB2B,EAoB3B,aApB2B,EAqB3B,aArB2B,EAsB3B,aAtB2B,EAuB3B,WAvB2B,EAwB3B,cAxB2B,EAyB3B,eAzB2B,EA0B3B,cA1B2B,EA2B3B,eA3B2B,EA4B3B,YA5B2B,EA6B3B,OA7B2B,EA8B3B,MA9B2B,EA+B3B,QA/B2B,EAgC3B,OAhC2B,EAiC3B,QAjC2B,EAkC3B,QAlC2B,EAmC3B,SAnC2B,EAoC3B,UApC2B,EAqC3B,MArC2B,EAsC3B,QAtC2B,EAuC3B,cAvC2B,EAwC3B,QAxC2B,EAyC3B,MAzC2B,EA0C3B,kBA1C2B,EA2C3B,kBA3C2B,EA4C3B,OA5C2B,EA6C3B,OA7C2B,EA8C3B,QA9C2B,CAAR,CAArB,CAAA;EAiDA;EACA;EACA;;EAEA,SAASC,YAAT,CAAsBC,OAAtB,EAA+BC,GAA/B,EAAoC;EAClC,EAAA,OAAQA,GAAG,IAAK,CAAEA,EAAAA,GAAI,KAAIR,QAAQ,EAAG,CAA9B,CAAA,IAAoCO,OAAO,CAACP,QAA5C,IAAwDA,QAAQ,EAAvE,CAAA;EACD,CAAA;;EAED,SAASS,gBAAT,CAA0BF,OAA1B,EAAmC;EACjC,EAAA,MAAMC,GAAG,GAAGF,YAAY,CAACC,OAAD,CAAxB,CAAA;IAEAA,OAAO,CAACP,QAAR,GAAmBQ,GAAnB,CAAA;IACAT,aAAa,CAACS,GAAD,CAAb,GAAqBT,aAAa,CAACS,GAAD,CAAb,IAAsB,EAA3C,CAAA;IAEA,OAAOT,aAAa,CAACS,GAAD,CAApB,CAAA;EACD,CAAA;;EAED,SAASE,gBAAT,CAA0BH,OAA1B,EAAmCI,EAAnC,EAAuC;EACrC,EAAA,OAAO,SAASC,OAAT,CAAiBC,KAAjB,EAAwB;MAC7BC,UAAU,CAACD,KAAD,EAAQ;EAAEE,MAAAA,cAAc,EAAER,OAAAA;EAAlB,KAAR,CAAV,CAAA;;MAEA,IAAIK,OAAO,CAACI,MAAZ,EAAoB;QAClBC,YAAY,CAACC,GAAb,CAAiBX,OAAjB,EAA0BM,KAAK,CAACM,IAAhC,EAAsCR,EAAtC,CAAA,CAAA;EACD,KAAA;;MAED,OAAOA,EAAE,CAACS,KAAH,CAASb,OAAT,EAAkB,CAACM,KAAD,CAAlB,CAAP,CAAA;KAPF,CAAA;EASD,CAAA;;EAED,SAASQ,0BAAT,CAAoCd,OAApC,EAA6Ce,QAA7C,EAAuDX,EAAvD,EAA2D;EACzD,EAAA,OAAO,SAASC,OAAT,CAAiBC,KAAjB,EAAwB;EAC7B,IAAA,MAAMU,WAAW,GAAGhB,OAAO,CAACiB,gBAAR,CAAyBF,QAAzB,CAApB,CAAA;;EAEA,IAAA,KAAK,IAAI;EAAEG,MAAAA,MAAAA;EAAF,KAAA,GAAaZ,KAAtB,EAA6BY,MAAM,IAAIA,MAAM,KAAK,IAAlD,EAAwDA,MAAM,GAAGA,MAAM,CAACC,UAAxE,EAAoF;EAClF,MAAA,KAAK,MAAMC,UAAX,IAAyBJ,WAAzB,EAAsC;UACpC,IAAII,UAAU,KAAKF,MAAnB,EAA2B;EACzB,UAAA,SAAA;EACD,SAAA;;UAEDX,UAAU,CAACD,KAAD,EAAQ;EAAEE,UAAAA,cAAc,EAAEU,MAAAA;EAAlB,SAAR,CAAV,CAAA;;UAEA,IAAIb,OAAO,CAACI,MAAZ,EAAoB;YAClBC,YAAY,CAACC,GAAb,CAAiBX,OAAjB,EAA0BM,KAAK,CAACM,IAAhC,EAAsCG,QAAtC,EAAgDX,EAAhD,CAAA,CAAA;EACD,SAAA;;UAED,OAAOA,EAAE,CAACS,KAAH,CAASK,MAAT,EAAiB,CAACZ,KAAD,CAAjB,CAAP,CAAA;EACD,OAAA;EACF,KAAA;KAjBH,CAAA;EAmBD,CAAA;;EAED,SAASe,WAAT,CAAqBC,MAArB,EAA6BC,QAA7B,EAAuCC,kBAAkB,GAAG,IAA5D,EAAkE;IAChE,OAAOC,MAAM,CAACC,MAAP,CAAcJ,MAAd,CACJK,CAAAA,IADI,CACCrB,KAAK,IAAIA,KAAK,CAACiB,QAAN,KAAmBA,QAAnB,IAA+BjB,KAAK,CAACkB,kBAAN,KAA6BA,kBADtE,CAAP,CAAA;EAED,CAAA;;EAED,SAASI,mBAAT,CAA6BC,iBAA7B,EAAgDxB,OAAhD,EAAyDyB,kBAAzD,EAA6E;EAC3E,EAAA,MAAMC,WAAW,GAAG,OAAO1B,OAAP,KAAmB,QAAvC,CAD2E;;IAG3E,MAAMkB,QAAQ,GAAGQ,WAAW,GAAGD,kBAAH,GAAyBzB,OAAO,IAAIyB,kBAAhE,CAAA;EACA,EAAA,IAAIE,SAAS,GAAGC,YAAY,CAACJ,iBAAD,CAA5B,CAAA;;EAEA,EAAA,IAAI,CAAChC,YAAY,CAACqC,GAAb,CAAiBF,SAAjB,CAAL,EAAkC;EAChCA,IAAAA,SAAS,GAAGH,iBAAZ,CAAA;EACD,GAAA;;EAED,EAAA,OAAO,CAACE,WAAD,EAAcR,QAAd,EAAwBS,SAAxB,CAAP,CAAA;EACD,CAAA;;EAED,SAASG,UAAT,CAAoBnC,OAApB,EAA6B6B,iBAA7B,EAAgDxB,OAAhD,EAAyDyB,kBAAzD,EAA6ErB,MAA7E,EAAqF;EACnF,EAAA,IAAI,OAAOoB,iBAAP,KAA6B,QAA7B,IAAyC,CAAC7B,OAA9C,EAAuD;EACrD,IAAA,OAAA;EACD,GAAA;;EAED,EAAA,IAAI,CAAC+B,WAAD,EAAcR,QAAd,EAAwBS,SAAxB,CAAqCJ,GAAAA,mBAAmB,CAACC,iBAAD,EAAoBxB,OAApB,EAA6ByB,kBAA7B,CAA5D,CALmF;EAQnF;;IACA,IAAID,iBAAiB,IAAInC,YAAzB,EAAuC;MACrC,MAAM0C,YAAY,GAAGhC,EAAE,IAAI;QACzB,OAAO,UAAUE,KAAV,EAAiB;UACtB,IAAI,CAACA,KAAK,CAAC+B,aAAP,IA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