API

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Notifications

The Notifications API will notify a user of an important message (Mozilla and individual contributors 2019). The notification API looking inward essentially includes two essential parts, a grant of permission from the user to allow system notifications and a grant of notifications for the particular origin site (Mozilla and individual contributors 2019). The request for permission takes place through a method called “Notification.requestPermission()”(Mozilla and individual contributors 2019).The method essentially creates a request for permission dialog for the user where the user will either grant permissions of these kinds or decline (Mozilla and individual contributors 2019). When testing this for rather or not permissions were granted, the console may provide one of three messages including default which means the user has not granted permission yet, granted which means the user granted permissions and denied which indicated the user had declined permission request (Mozilla and individual contributors 2019).

The time range for the permissions is within the current browser session. After the permissions are granted, a notification constructor is created in code (Mozilla and individual contributors 2019). The constructor is the part that controls what the notification says and provides options for a title, message to the user notification sound, and a body of text in some cases (Mozilla and individual contributors 2019). Depending on what notification API is being used a time variable may be possible to set as well (Mozilla and individual contributors 2019). Closing the notification is relatively simple, the event the user is using Firefox or Safari, the notification will time itself out eventually or otherwise based on the time set in “setTimeout()” within the “notification.close” function appended to “bind” (Mozilla and individual contributors 2019).

Notification events also allow the notifications API to be attached to a particular event such as a click and have close of another event (Mozilla and individual contributors 2019). The notifications events can be attached to other actions based on using “onclick”, “onclose”, “onerror”, “onshow”, or “addEventListener” (Mozilla and individual contributors 2019). Browser compatibility is rather patchy besides when using Microsoft Edge and Google Chrome with the best support for various actions (Mozilla and individual contributors 2019). Some browsers are having no support for Web API notifications such as internet explorer, Android web view, and Safari on iOS (Mozilla and individual contributors 2019).

# References

Mozilla and individual contributors. (2019). *Using the Notifications API*. Retrieved from MDN Web Docs: https://developer.mozilla.org/en-US/docs/Web/API/Notifications\_API/Using\_the\_Notifications\_API

(Mozilla and individual contributors 2019)