JavaScript Framework

- Moodle had been using the **Yahoo User Interface** library (YUI) framework for years but there is no further development taking place on the YUI library which started life in 2005.

- Since Moodle 2.9 there has been a push to use JQuery and modules using the Asynchronous Module Definition (AMD) API

  https://github.com/amdjs/amdjs-api/wiki/AMD

JQuery & AJAX

JQuery: Moodle includes jQuery as an AMD module. This means that JQuery is available to all AMD JavaScript and it can be listed as a dependency of your module or required to load it. In Moodle 3.9, jQuery 3.4.1 is standard. For more information see https://docs.moodle.org/dev/jQuery.

AJAX: Moodle prefers the use of JSON rather than XML. AJAX functionality is available via the JavaScript module named `core/ajax` which however, is designed to be used with web services. If you want to use standard AJAX, use `$.ajax` where `$` is JQuery. For further information see https://docs.moodle.org/dev/AJAX

JqueryUI: The jQueryUI libraries are not recommended for use with Moodle, particularly for core functionality, for several reasons, including that CSS conflicts with the Bootstrap but it is available as an AMD module named `jqueryui` if you need or want to use it.

JavaScript Framework

- Since Moodle 3.8, even in developer mode, your JavaScript is served minimised. Whilst developing set `$CFG->cachejs = false` in ***config.php*** so that Moodle sends the corresponding source map files for each of the Javascript modules

- The instructions for the installation of the requirements to include JavaScript modules are on the 'JavaScript Modules' page https://docs.moodle.org/dev/Javascript_Modules, which includes the installation, only on the development server, of NVM, Node and GRUNT. Ensure you run GRUNT before releasing the code to production.

Core Modules

There are several core modules for use in your JavaScript including:

- Configuration settings (`core/config`)

- Language strings (`core/str`)

- Notifications (`core/notification`)

- URL module (`core/url`)

- Ajax Module (`core/ajax`)

- Modal (`core/modal`)

All the core modules are defined in the /lib/amd/scr/ directory. See
https://docs.moodle.org/dev/Useful_core_Javascript_modules

Our Plugin Javascript

Going to use:

- JavaScript's MediaDevices interface

  https://developer.mozilla.org/en-US/docs/Web/API/MediaDevices

- JavaScript's mediaRecorder object

  https://developer.mozilla.org/en-US/docs/Web/API/MediaRecorder/MediaRecorder

- Wrapped in a AMD module - download all from

  https://github.com/Mukudu-Publishing/moodle-assignfeedback_audio/tree/master/amd/