

# Advanced Customisation

If you are looking for ways to override specific classes or resources in DSpace (specifically in the backend), this page provides a guide for how to do so.

- 1 [Additions module](#)
- 2 [Server Webapp Overlay](#)
- 3 [Rest \(Deprecated\) Webapp Overlay](#)

## Additions module

Location: `[dspace-source]/dspace/modules/additions/`

This module may be used to store `dspace-api` changes, custom plugins, etc. Classes placed in `[dspace-source]/dspace/modules/additions` will override those located in the `[dspace-source]/dspace-api`

This module may be used to override classes across *all* webapps located in `[dspace-source]/dspace/modules/` directory, as well as in the command line interface. Therefore, this module is for global overrides only. If you have overrides specific to a single webapp, use the "Maven WAR Overrides" option below.

## Server Webapp Overlay

Location: `[dspace-source]/dspace/modules/server/`

This module overlay directory allows you to override any classes, resources or files available (by default) in the Server Webapp. This includes overriding files of any of the following source directories:

- `[dspace-source]/dspace-oai/` (Bundled into the Server Webapp as a JAR)
- `[dspace-source]/dspace-rdf/` (Bundled into the Server Webapp as a JAR)
- `[dspace-source]/dspace-server-webapp/` (The Server Webapp itself)
- `[dspace-source]/dspace-sword/` (Bundled into the Server Webapp as a JAR)
- `[dspace-source]/dspace-swordv2/` (Bundled into the Server Webapp as a JAR)

Java classes placed in `[dspace-source]/dspace/modules/server/` will override classes (of the same path/name) in any of the above modules.

You can also override resources (i.e. any files under a `/src/main/resources/` directory) which are embedded in one of the JARs by putting them under `[dspace-source]/dspace/modules/server/src/main/resources/`. For example, to override the "`[dspace-source]/dspace-oai/src/main/resources/templates/index.twig.html`" file embedded in the `dspace-oai.jar`, you'd place your own version at `[dspace-source]/dspace/modules/server/src/main/resources/templates/index.twig.html`. This results in the resource/file being copied over into the `WEB-INF/classes/` subdirectory of the "server" webapp, and in that location it will override any file of the same name embedded in a JAR (per Servlet Spec 3.0).

## Rest (Deprecated) Webapp Overlay

Location: `[dspace-source]/dspace/modules/rest`

If you have chosen to install the deprecated REST API v6 webapp, you can similarly override any classes/files of that separate webapp by just placing those files in the `[dspace-source]/dspace/modules/rest/` directory