

# DWR in OpenMRS

OpenMRS uses [dwr](#) for AJAX. In a sentence, dwr converts java objects to javascript and vice versa.

## DWR in core openmrs

- <https://github.com/OpenMRS/openmrs-core/blob/master/webapp/src/main/webapp/WEB-INF/dwr.xml>

## Using DWR in a JSP page

```
<script src="<openmrs:contextPath/>/dwr/interface/DWRPatientService.js"></script>
<script>

DWRPatientService.findPatients("John", false, objectsFound);

function objectsFound(patients) {
    alert("There are " + patients.length + " patients named john");
}

</script>
```

## Adding DWR into your module

Add to config.xml:

```
<dwr>
    <allow>
        <create creator="new" javascript="DWRMyModuleService">
            <param name="class" value="@MODULE_PACKAGE@.web.DWRMyModuleService"/>
            <include method="getAllLocations"/>
        </create>
    </allow>

    <signatures>
        <![CDATA[
            import @MODULE_PACKAGE@.web.DWRMyModuleService;
            DWRMyModuleService.getAllLocations();
        ]]>
    </signatures>
</dwr>
```

Create this class:

```
public class DWRMyModuleService {

    public List<String> getAllLocations() {
        List<String> locationNames = new Vector<String>();
        for (Location loc : Context.getAllLocations()) {
            locationNames.add(loc.getName());
        }
        return locationNames;
    }
}
```