

# Servlet API Library

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This module (`isis-module-servletapi`) provides access to various elements of the Servlet API, namely the `ServletContext`, the `HttpServletRequest` and the `HttpServletResponse`.

For each of these APIs a corresponding "provider" domain service exists; for example `ServletContextProvider` service provides access to the `ServletContext`.

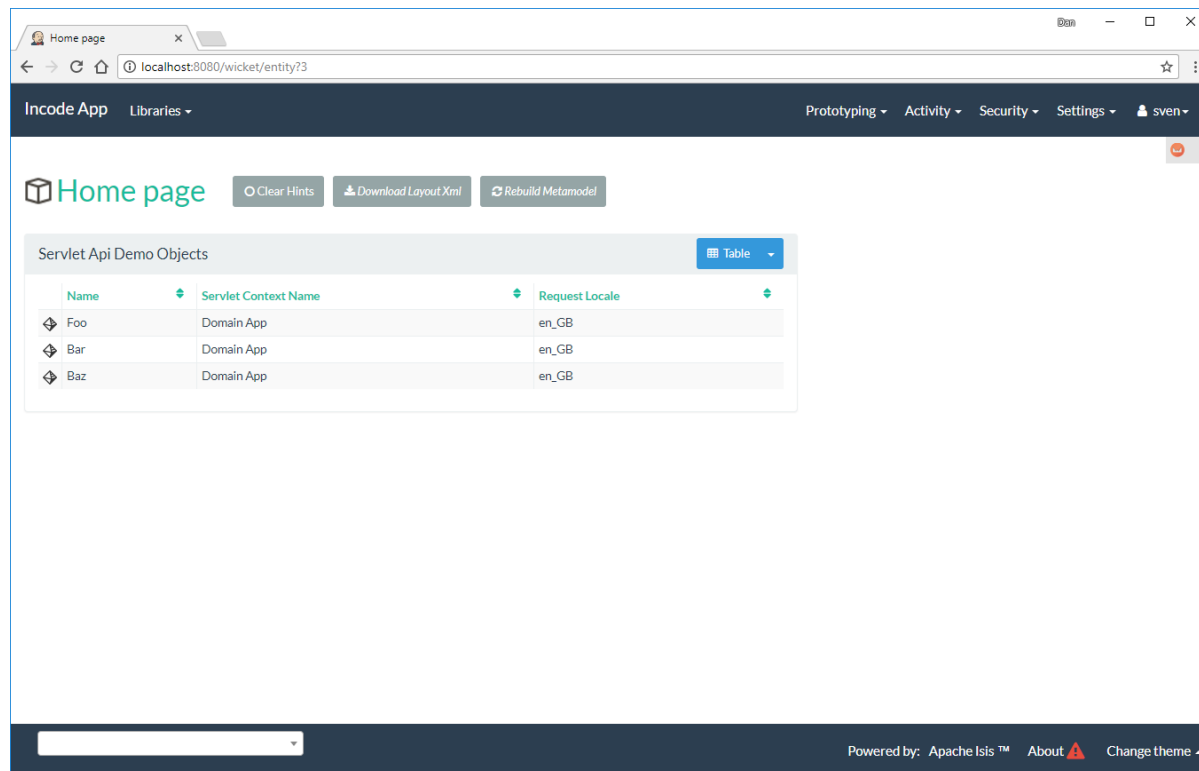


This module is only available for Wicket viewer, not the REST API.

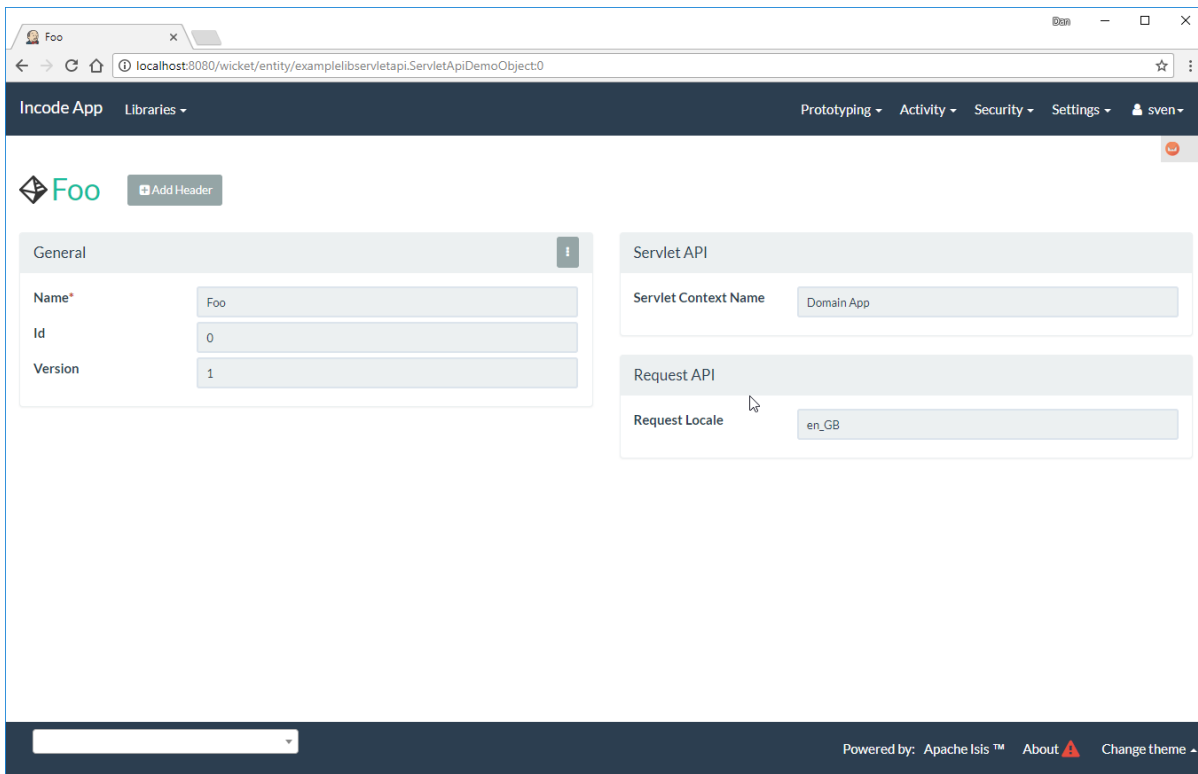
# Screenshots

The module's functionality can be explored by running the [quickstart with example usage](#) using the `org.incode.domainapp.example.app.modules.ExampleDomLibServletApiAppManifest`.

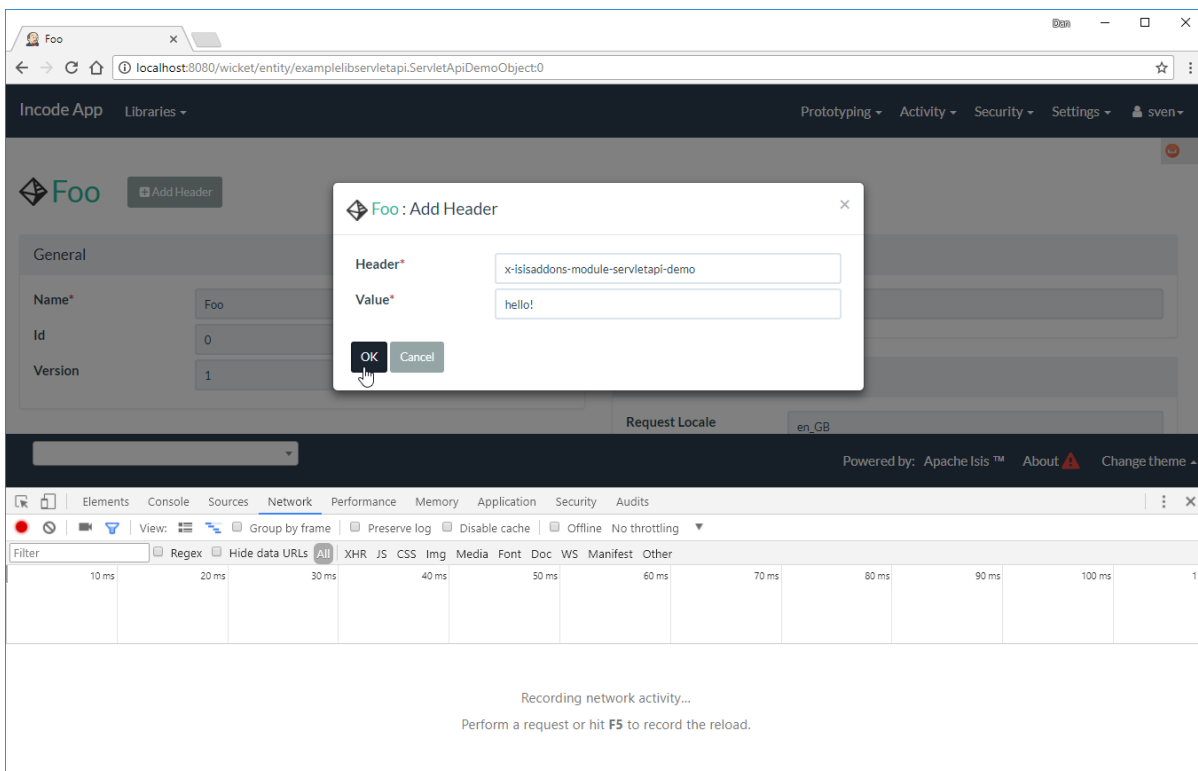
A home page is displayed when the app is run:



The demo object has all of the various "provider" domain services injected into it. It uses the `ServletContextProvider` and the `HttpServletRequestProvider` services to simply show the servlet context name and user's locale:



To demonstrate the use of the `HttpServletResponseProvider`, the demo object provides an "addHeader" action:



When invoked, this adds a HTTP header to the response:

IncCode App Libraries Prototyping Activity Security Settings sven

Foo Add Header

General Servlet API

Powered by: Apache Isis™ About Change theme

Elements Console Sources Network Performance Memory Application Security Audits

View: Group by frame Preserve log Disable cache Offline No throttling

Filter Regex Hide data URLs All XHR JS CSS Img Media Font Doc WS Manifest Other

20 ms 40 ms 60 ms 80 ms 100 ms 120 ms 140 ms 160 ms 180 ms 200 ms 220 ms 240 ms 260 ms 280 ms 300 ms 320 ms

Name	Headers	Preview	Response	Cookies	Timing
examplelibservletapi.ServletApiDemoObject:074-1.1B...ModalWindow-content-parameters-inputForm-okButton	Request Method: POST Status Code: 200 OK Remote Address: [::1]:8080 Referrer Policy: no-referrer-when-downgrade				
wicket-ver-1499945145926.png?antiCache=1504852772020	Response Headers Cache-Control: no-cache, no-store Content-Type: text/xml; charset=utf-8 Date: Fri, 08 Sep 2017 06:39:32 GMT Expires: Thu, 01 Jan 1970 00:00:00 GMT Pragma: no-cache Server: Jetty(9.4.3.v20170317) Transfer-Encoding: chunked x-isisaddons-module-servletapi-demo: hello!				
harddrive-ver-1499945145926.png?antiCache=1504852772021	Request Headers				
remove-ver-1499945145926.png?antiCache=1504852772037					

4 requests | 74.0 KB transferred

# How to configure/use

## Classpath

Update your classpath by adding this dependency in your `dom` project's `pom.xml`:

```
<dependency>
  <groupId>org.isisaddons.module.servletapi</groupId>
  <artifactId>isis-module-servletapi-dom</artifactId>
</dependency>
```

Check for later releases by searching [Maven Central Repo](#).

For instructions on how to use the latest `-SNAPSHOT`, see the [contributors guide](#).

## Bootstrapping

In the `AppManifest`, update its `getModules()` method, eg:

```
@Override
public List<Class<?>> getModules() {
    return Arrays.asList(
        ...
        org.isisaddons.module.servletapi.ServletApiModule.class,
        ...
    );
}
```

# API & Implementation

The `ServletContextProvider` defines the following API:

```
public class ServletContextProvider {  
    public ServletContext getServletContext() { ... }  
}
```

The `HttpServletRequestProvider` defines the following API:

```
public class HttpServletRequestProvider {  
    public HttpServletRequest getHttpServletRequest() { ... }  
}
```

The `HttpServletResponseProvider` defines the following API:

```
public class HttpServletResponseProvider {  
    public HttpServletResponse getHttpServletResponse() { ... }  
}
```

And finally, the `HttpSessionProvider` defines the following API:

```
@DomainService(nature = NatureOfService.DOMAIN)  
public class HttpSessionProvider {  
    public Optional<HttpSession> getHttpSession() { ... }  
    public <T> Optional<T> getAttribute(String key, Class<T> clazz) { ... } ①  
    public <T> void setAttribute(String key, T value) { ... }  
    public void removeAttribute(String key) { ... }  
}
```

① obtains an attribute (previous set) by key, cast to the specified class

These actions are all programmatic and do not appear in the UI.



# Known issues

None known at this time.

# Dependencies

Maven can report modules dependencies using:

```
mvn dependency:list -o -pl modules/lib/servletapi/impl -D excludeTransitive=true
```

which, excluding Apache Isis itself, returns these compile/runtime dependencies:

```
org.apache.geronimo.specs:geronimo-servlet_3.0_spec:jar:1.0  
org.apache.wicket:wicket-core:jar:7.8.0
```

The direct Wicket dependency is because the module implementation depends on Apache Isis, and in particular on Apache Isis' Wicket viewer. This means that it cannot be used within domain objects invoked from the REST API (Restful Objects viewer).

For further details on 3rd-party dependencies, see:

- [Apache Wicket](#)