Servlet API Library

Table of Contents

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

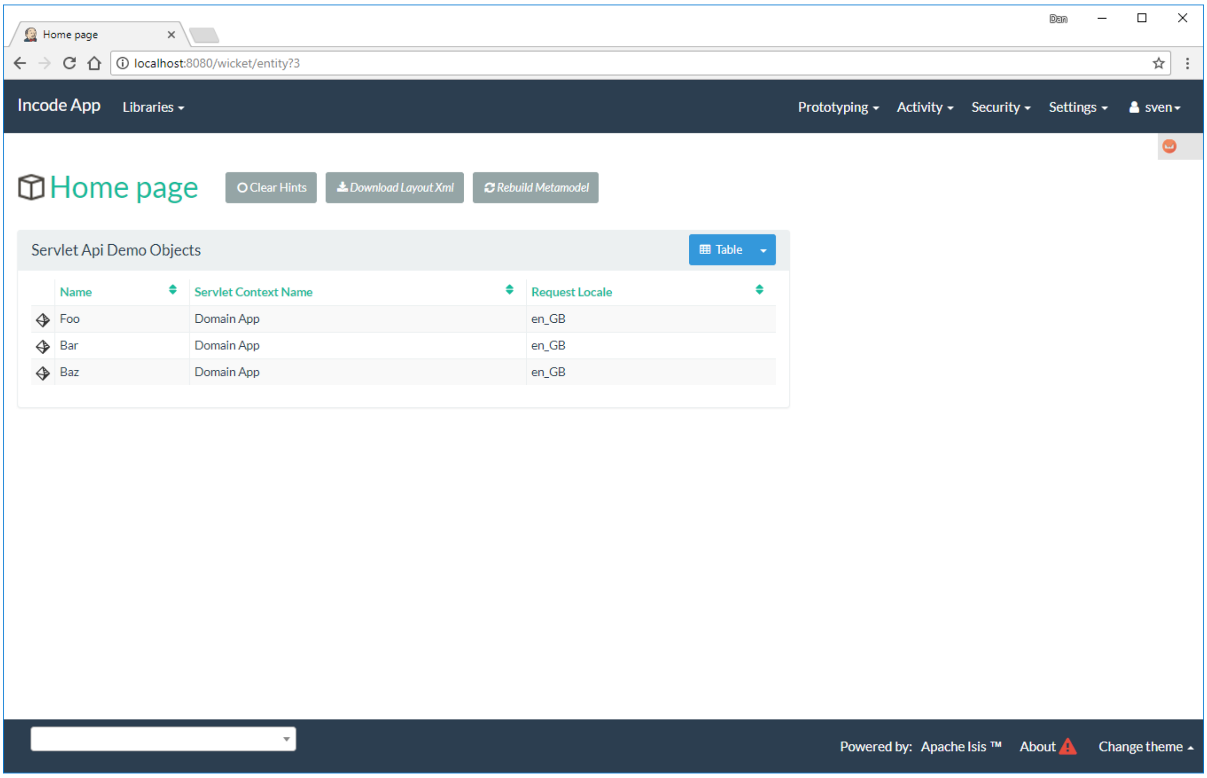
For each of these APIs a corresponding "provider" domain service exists; for example `ServletContextProvider` service provides access to the `ServletContext`.

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

Screenshots

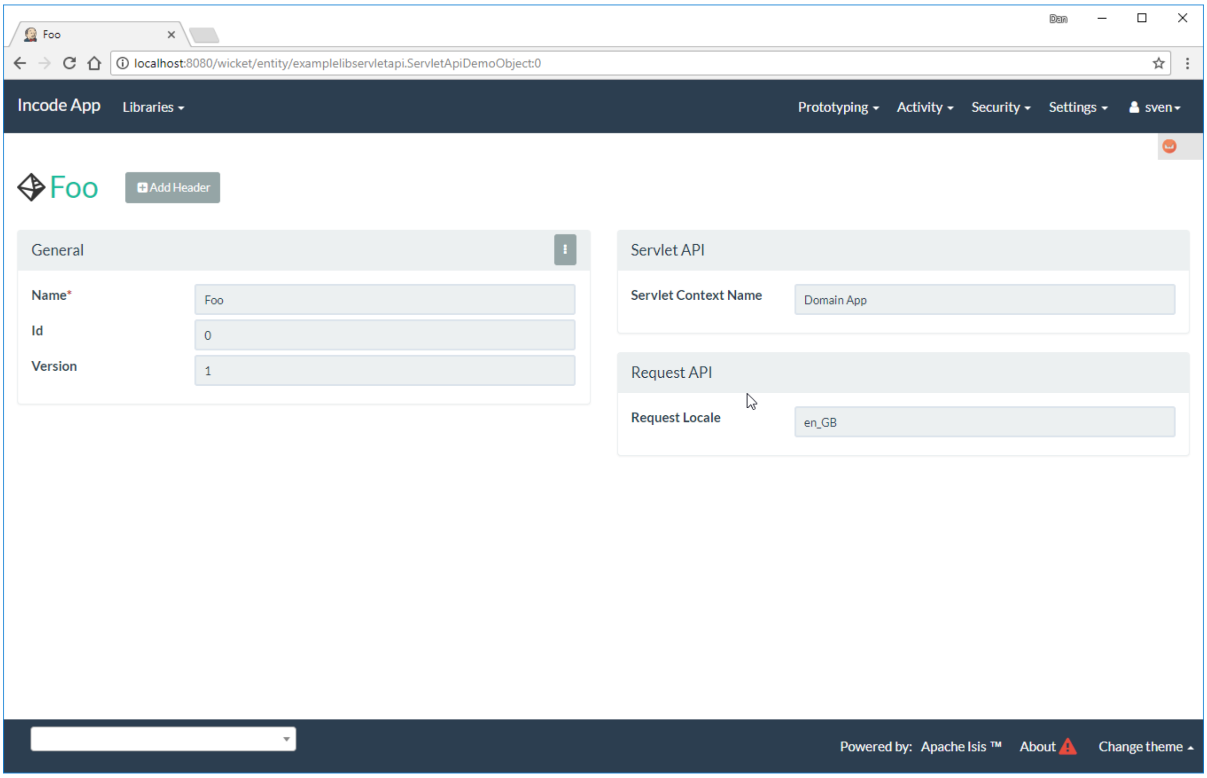
The module’s functionality can be explored by running the quickstart with example usage using the `org.incode.domainapp.example.app.modules.ExampleDomLibServletApiAppManifest`.

A home page is displayed when the app is run:



Name	Servlet Context Name	Request Locale
Foo	Domain App	en_GB
Bar	Domain App	en_GB
Baz	Domain App	en_GB

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:



Name* Foo

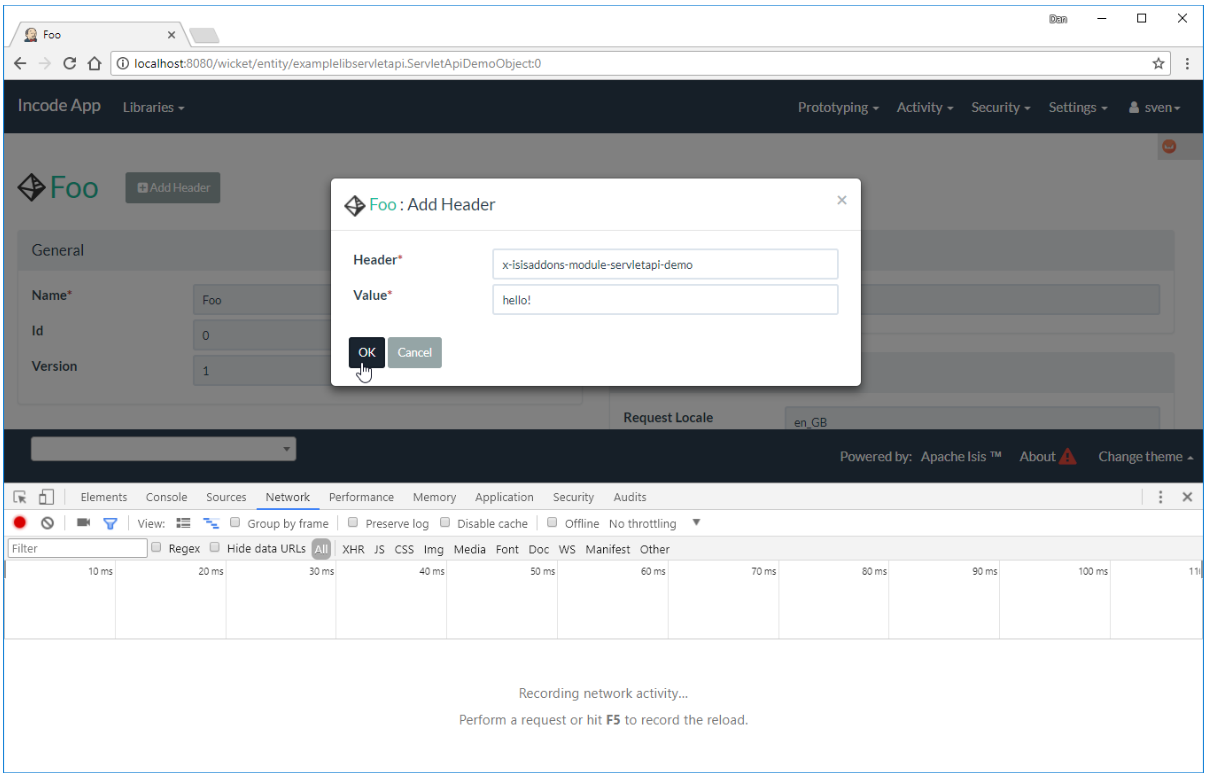
Id 0

Version 1

Servlet Context Name Domain App

Request Locale en_GB

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



Foo : Add Header

Header* x-isisaddons-module-servletapi-demo

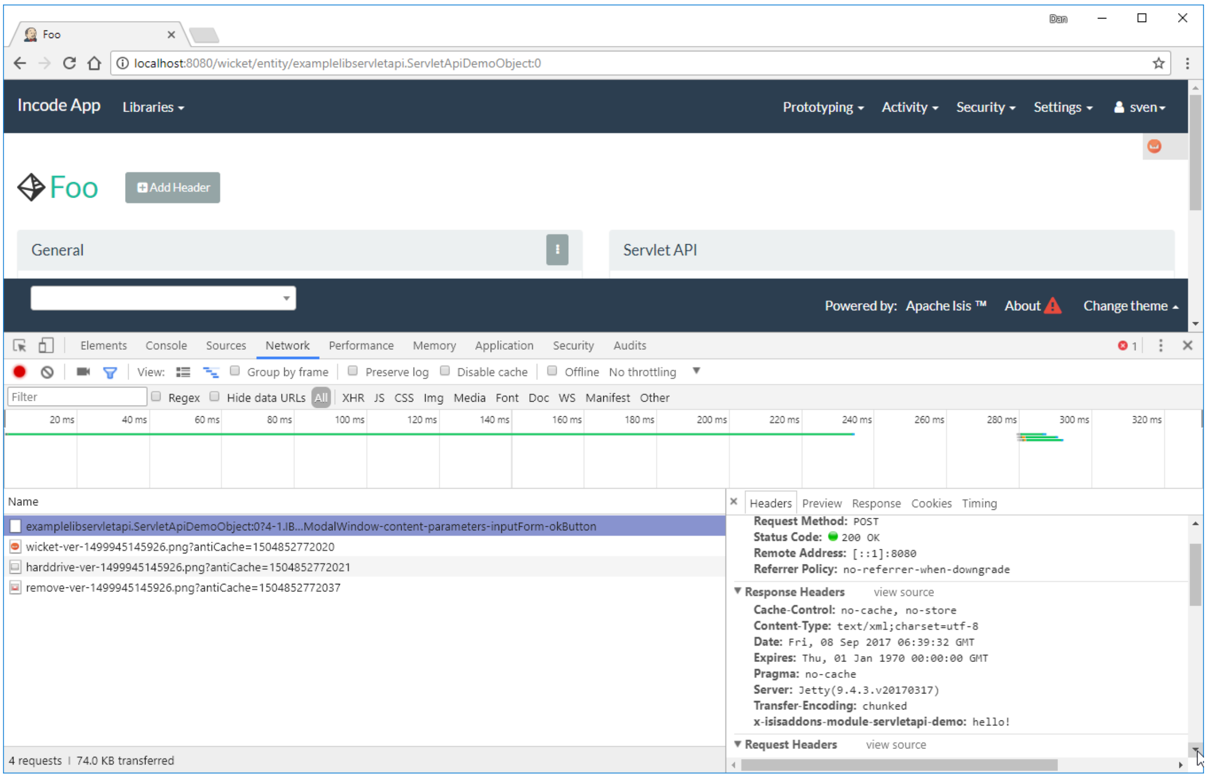
Value* hello!

OK Cancel

Recording network activity...

Perform a request or hit **F5** to record the reload.

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



```
examplelibservletapi.ServletApiDemoObject:0?4-1.IB...ModalWindow-content-parameters-inputForm-okButton
wicket-ver-1499945145926.png?antiCache=1504852772020
harddrive-ver-1499945145926.png?antiCache=1504852772021
remove-ver-1499945145926.png?antiCache=1504852772037

4 requests | 74.0 KB transferred
```

```
  Request Method: POST
  Status Code: 200 OK
  Remote Address: [::1]:8080
  Referrer Policy: no-referrer-when-downgrade
▼ Response Headers      view source
  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!
▼ Request Headers      view source
```

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>
    <version>1.16.1</version>
</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:

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

The `HttpServletRequestProvider` defines the following API:

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

The `HttpServletResponseProvider` defines the following API:

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

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

```java
@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