

Tags Subdomain

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This module (`isis-module-tags`) provides the ability to add multiple tags (or labels) to any domain entity.

For example, an `Email` entity could be associated with a `priority` tag of 'urgent', 'normal' or 'low', and could also have a `category` tag of 'work', 'family', 'friends'.

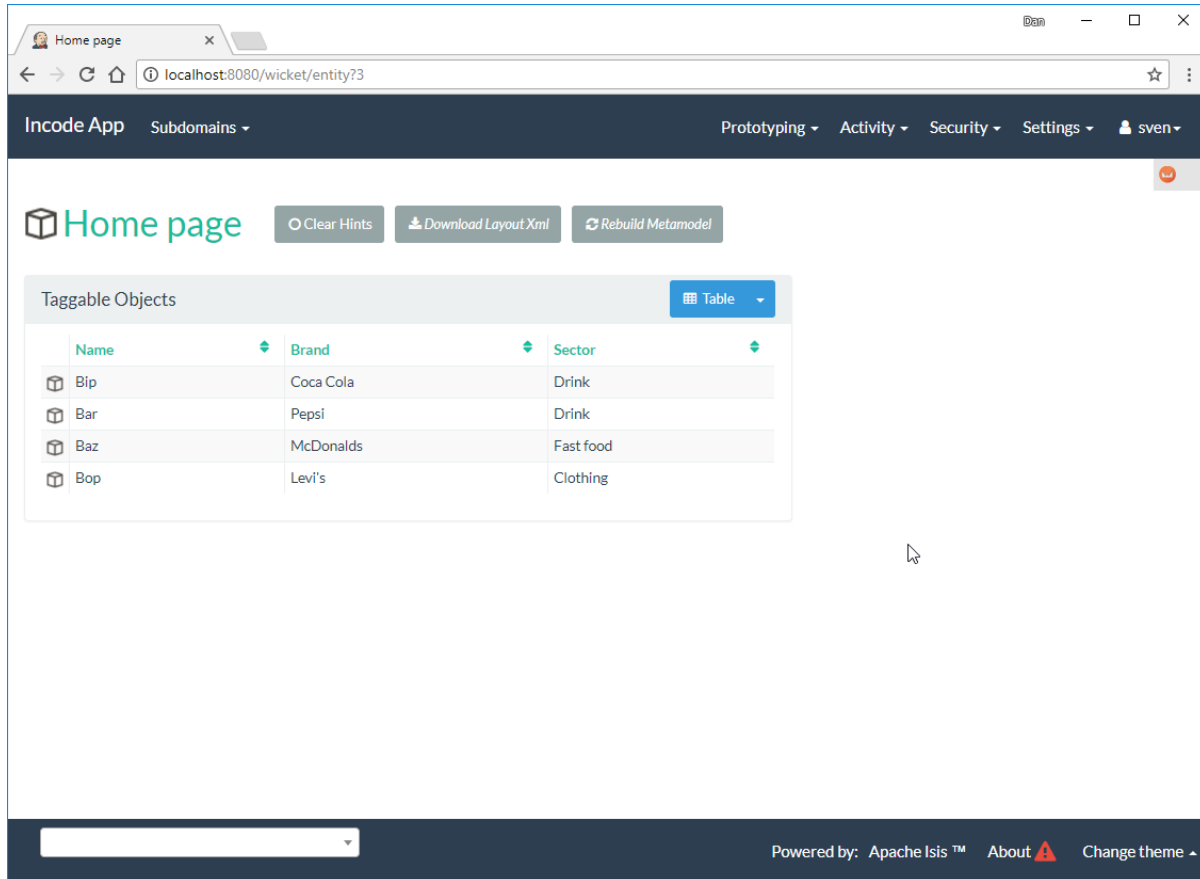
The idea is to allow a user to label an entity by offering a choice of other existing tags associated with other entities of the same type and also tag type. That is, the combination of the entity type (eg `com.mycompany.myapp.Email`) and the tag type (eg `priority`) creates a named set of available tags (eg 'urgent', 'normal', 'low').

As well as listing existing tags, new tags can of course also be created, and existing tags updated or removed.

Screenshots

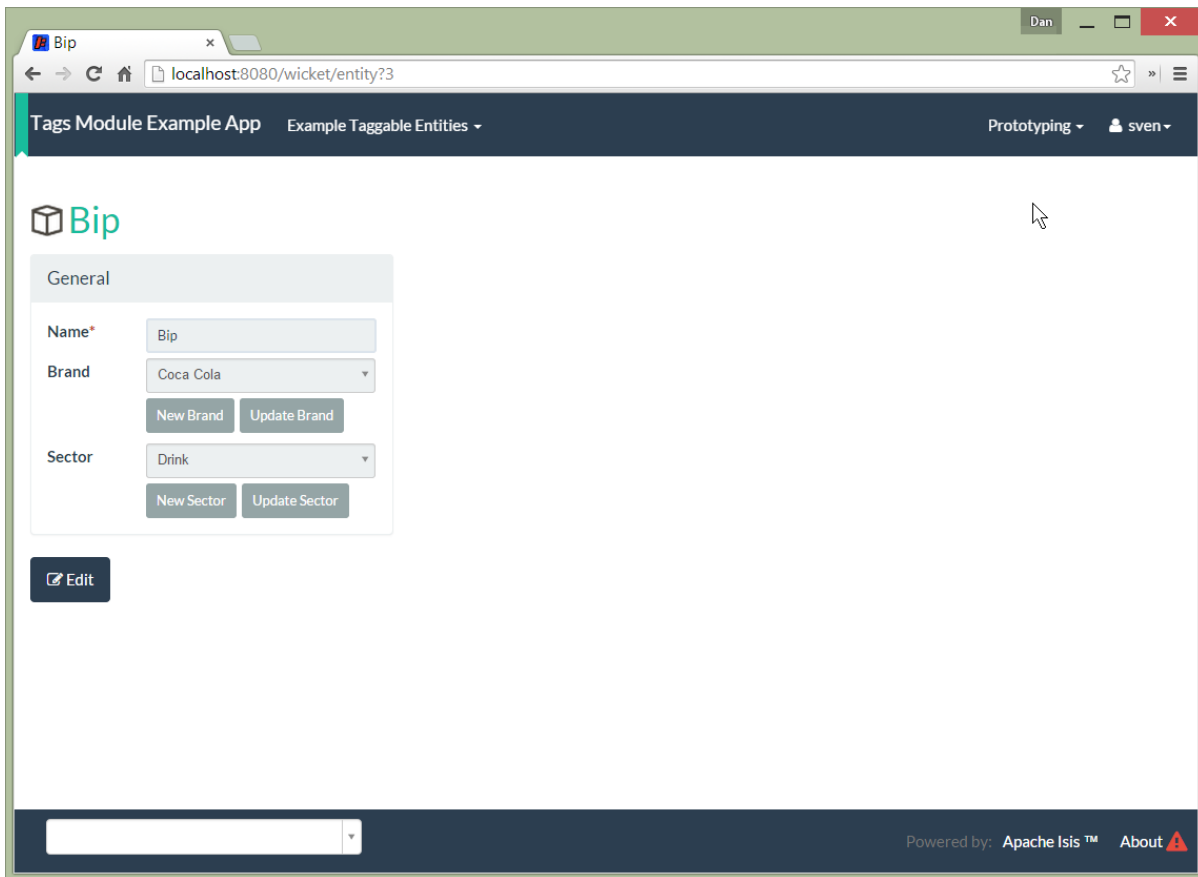
The module's functionality can be explored by running the [quickstart with example usage](#) using the `org.incode.domainapp.example.app.modules.ExampleDomDomTagAppManifest`.

A home page is displayed when the app is run:



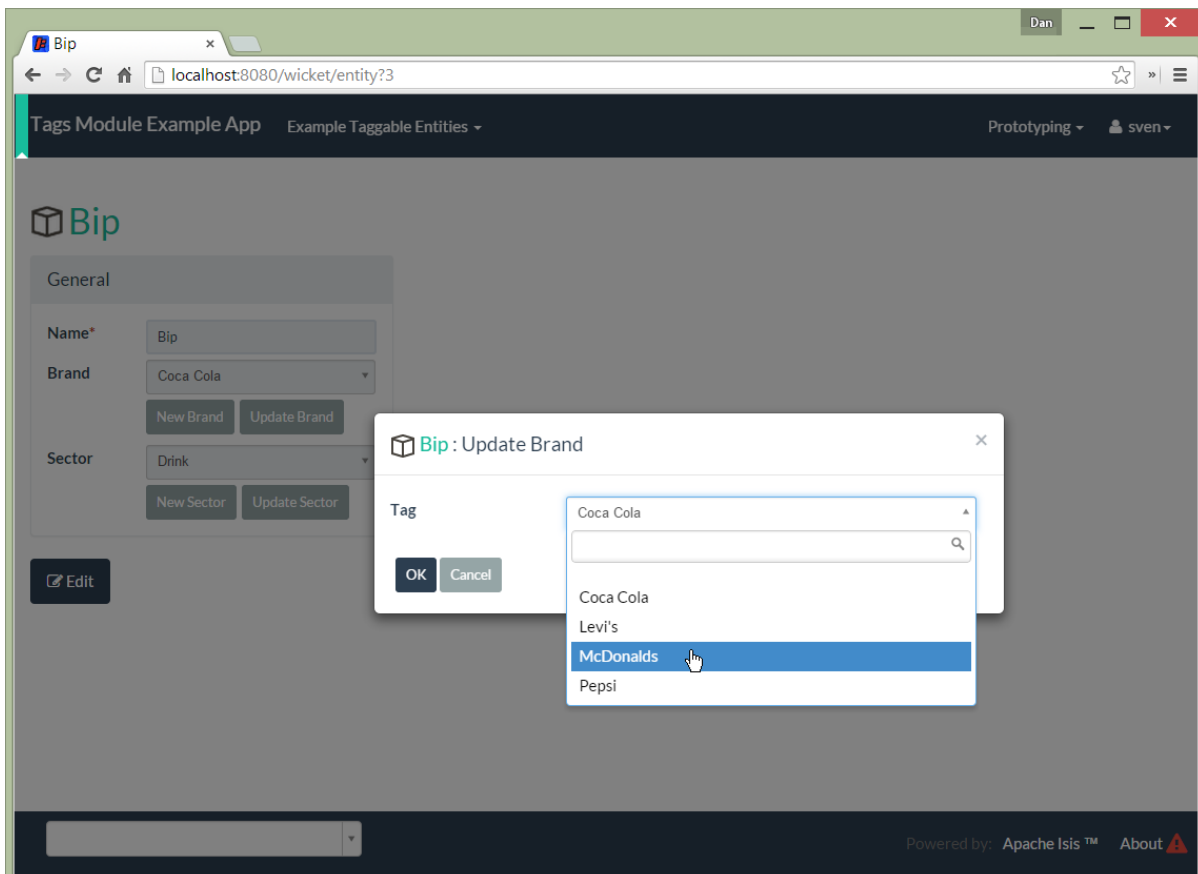
The remaining screenshots below **do** demonstrate the functionality of this module, but are out of date in that they are taken from the original `isisaddons/incodehq` module (prior to being amalgamated into the `incode-platform`).

One of the demo objects created is "Bip". The class of this entity is not of interest, what *is* of interest is that it has two properties, **brand** and **sector**, that correspond to ``Tag`s`:

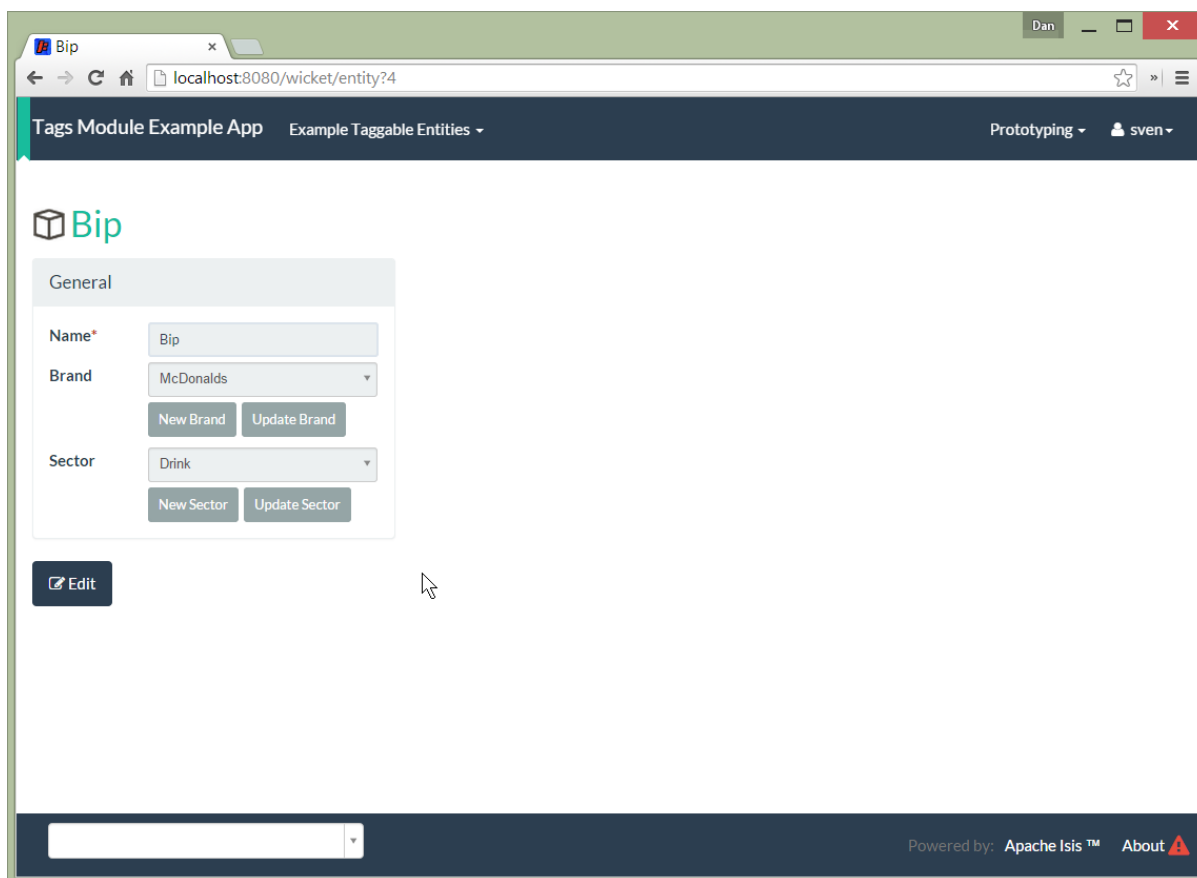


Update tag

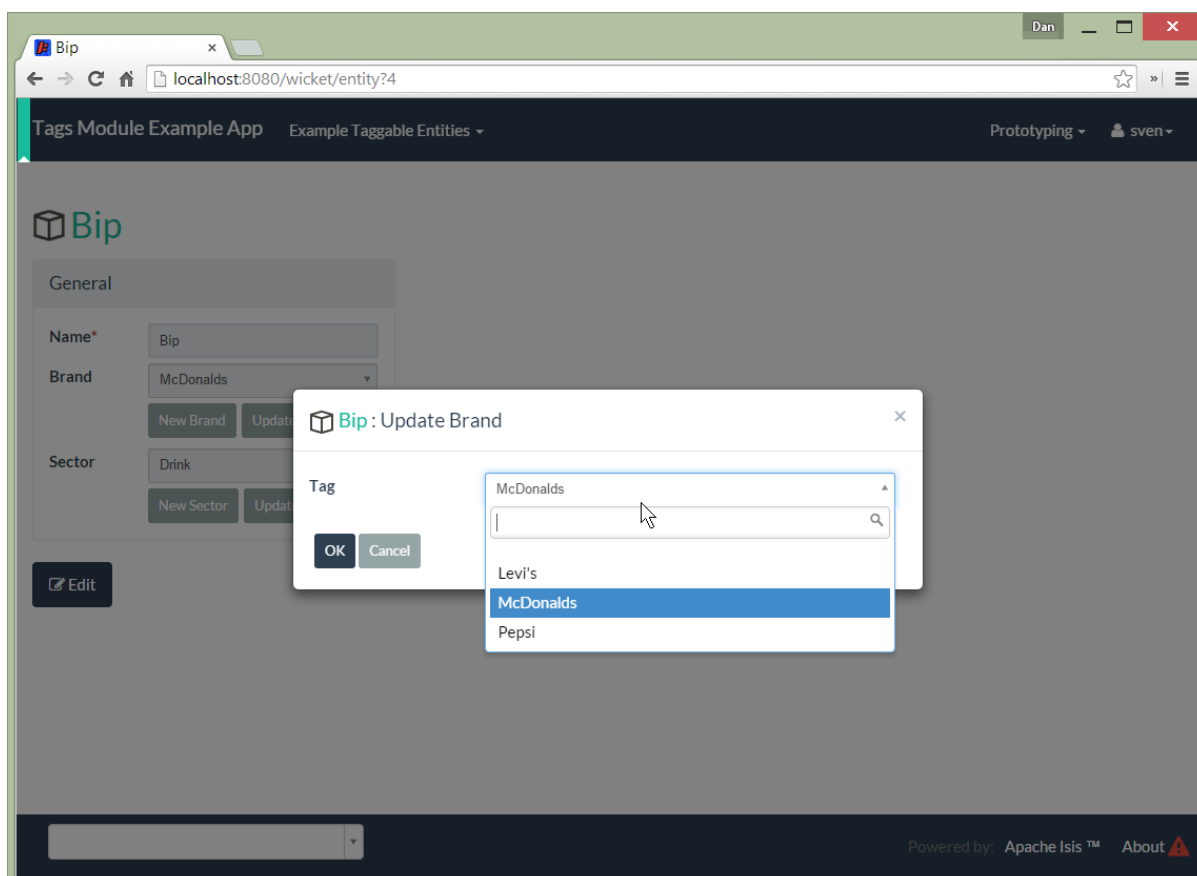
Using the action, can update tag. The **Tags** service provides a list of available tag (names) for this entity type and tag name ("brand"):



The tag can then be saved:

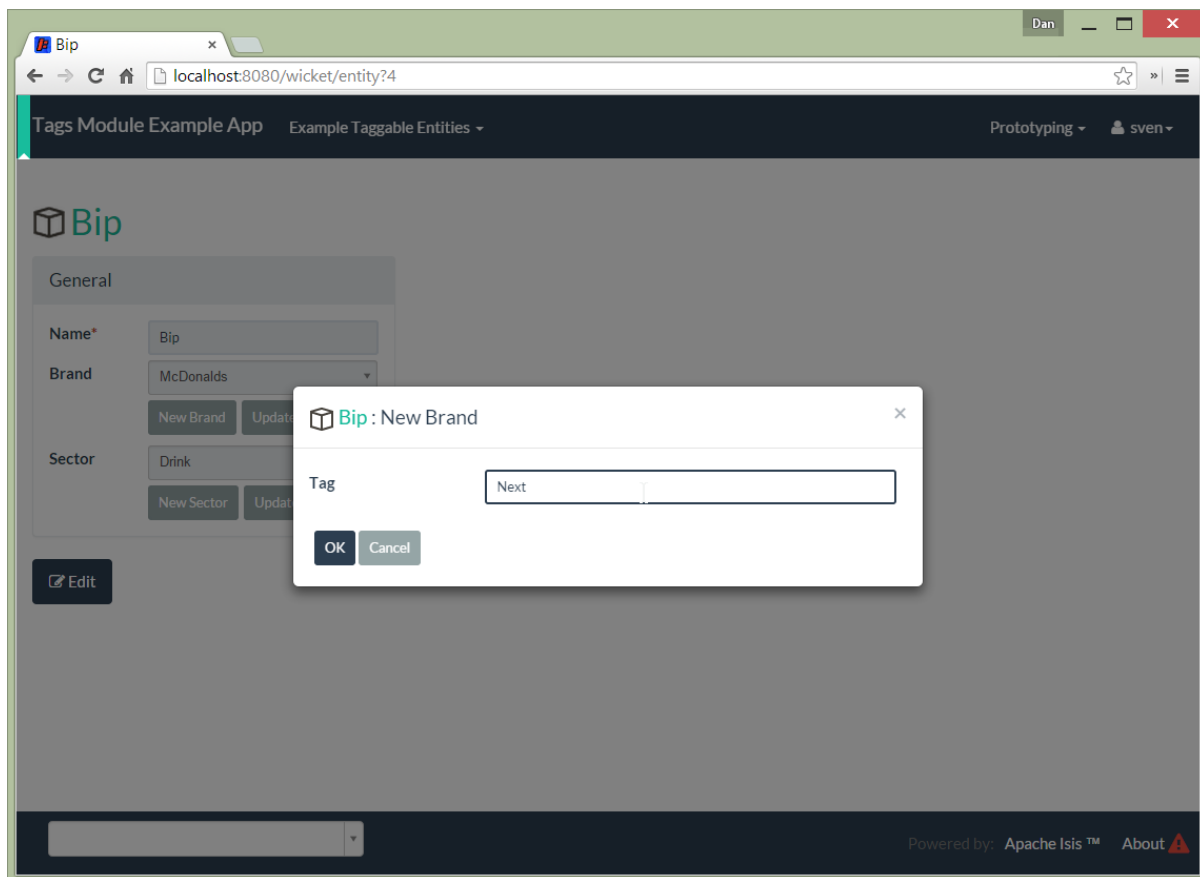


If the tag is updated once more, note that the original tag ("Coca Cola") is no longer listed. This is because there are no other entities that have this label:

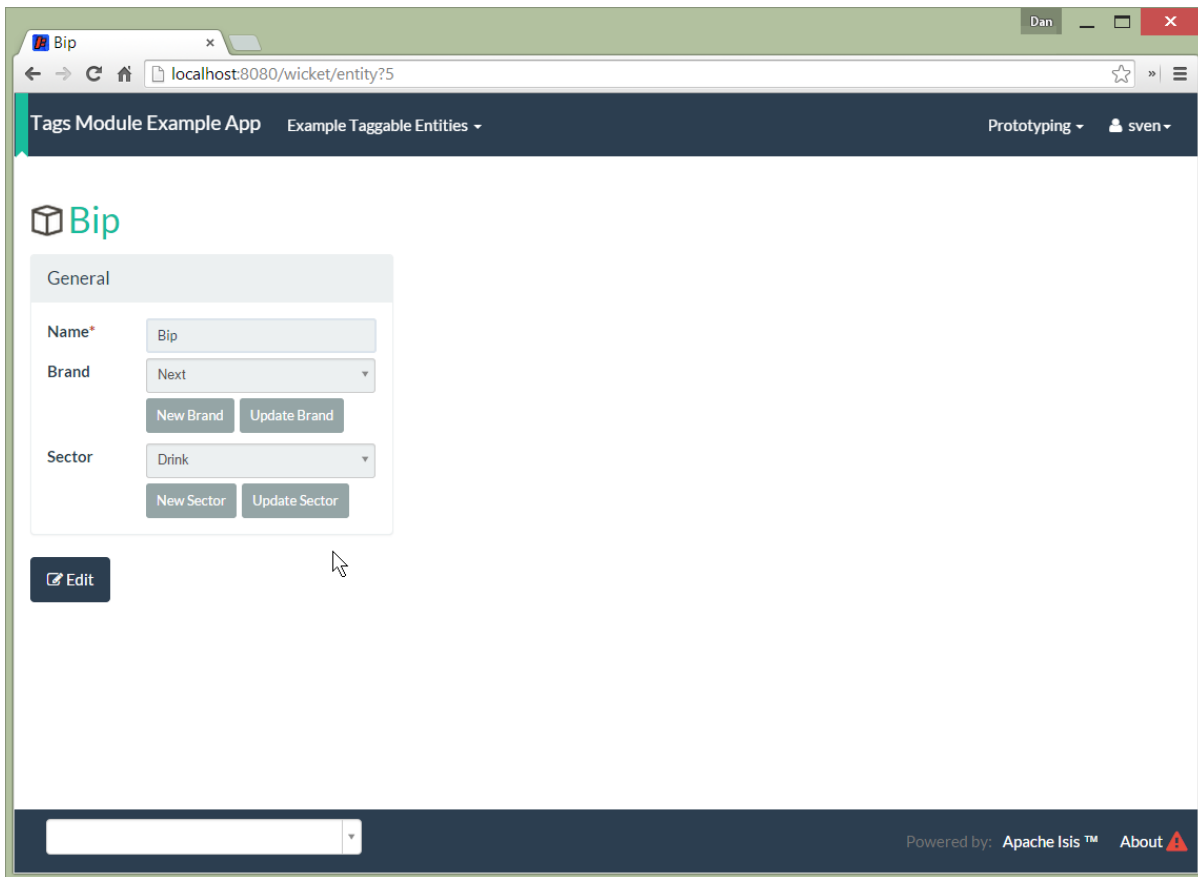


New tags

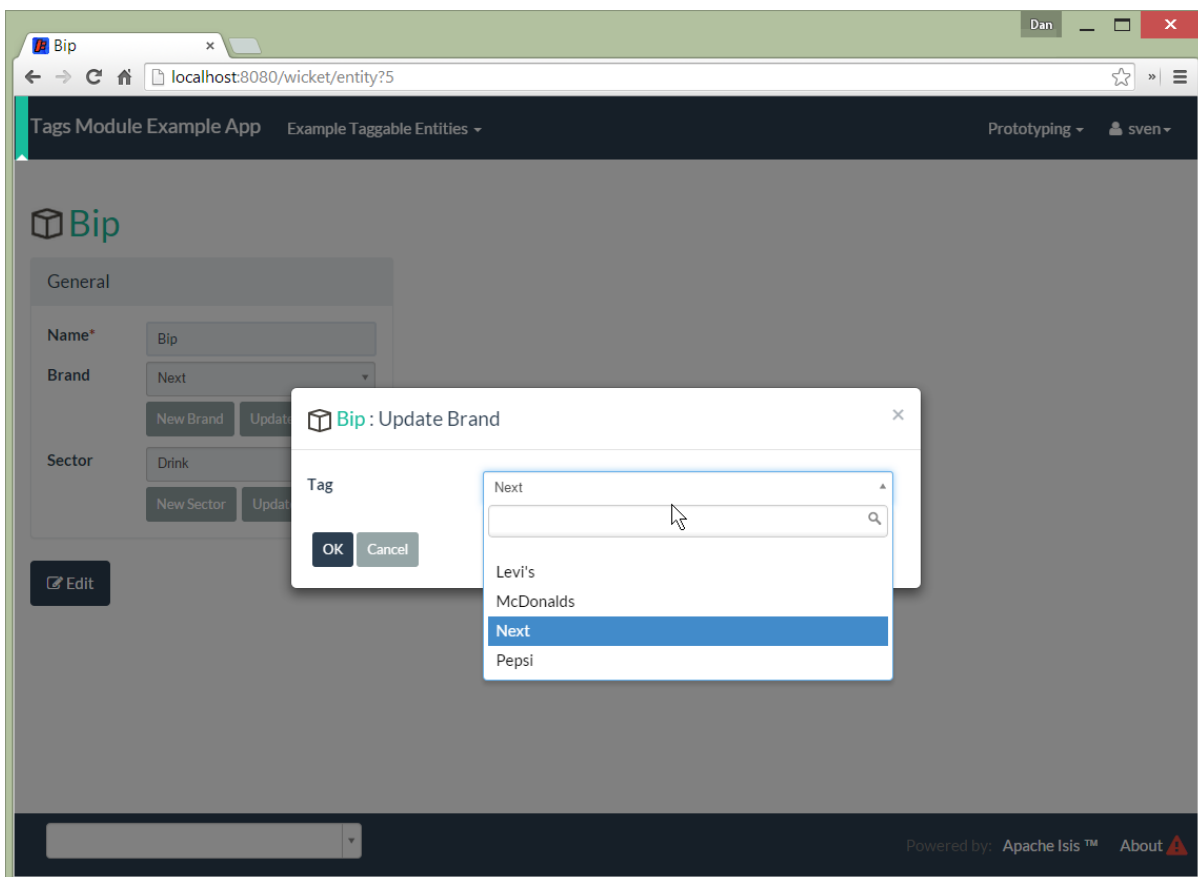
New tags can also be created. Enter the tag name:



The tag is saved:



... and is available as a choice for this or any other entity of the same type:



How to configure/use

Classpath

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

```
<dependency>
  <groupId>org.incode</groupId>
  <artifactId>incode-example-tags-dom</artifactId>
  <version>1.16.1</version>
</dependency>
```

Check for later releases by searching [Maven Central Repo](<http://search.maven.org/#search|ga|1|isis-module-tags-dom>).

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.incode.example.tags.TagsModule.class,
        ...
    );
}
```

API

The main functionality is exposed through the **Tags** domain service, which provides two methods:

```
public class Tags {  
  
    @Programmatic  
    public List<String> choices(  
        final Object taggedObject, final String tagKey) { ... } ①  
  
    @Programmatic  
    public Tag tagFor(  
        final Object taggedObject,  
        final Tag existingTag,  
        final String tagKey, final String tagValue) { ... } ②  
  
}
```

<1> `choices(...)` returns a list of tags as strings for the object being tagged (eg **Email**) and for the tag key (eg **priority**) <2> **tagFor(...)** will create/update a tag for the object being tagged (eg **Email**), the tag key (eg **priority**) and the tag value (eg 'urgent'). The existing tag (if any) is passed in so that it can be removed if the tag value is left as null.

Known issues

None known at this time.

Dependencies

Maven can report modules dependencies using:

```
mvn dependency:list -o -pl modules/dom/tags/impl -D excludeTransitive=true
```

which, excluding the Apache Isis modules, returns no direct compile/runtime dependencies.

The module *does* use icons from [icons8](#).