Settings Subdomain

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This module (isis-module-settings) provides the ability to persist applicationand user-configuration settings.

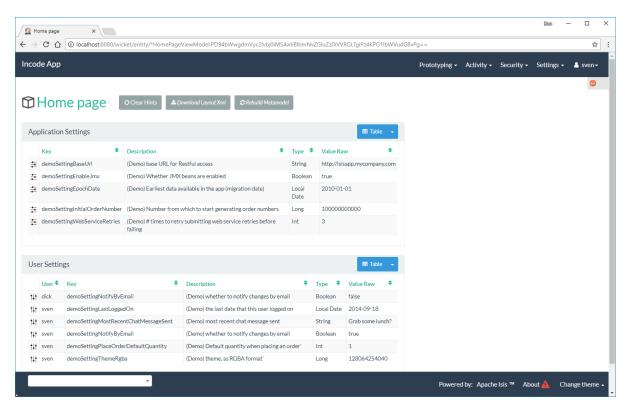
With ApplicationSettingsService these settings have global scope; for the UserSettingsService the settings are scoped per user.

The settings themselves are keyed by a simple string, and can store any of boolean, String, int, long and LocalDate. The implementation persists these values in a single raw format, but the API exposed by the services aims to be type-safe.

Screenshots

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

A home page is displayed when the app is run:

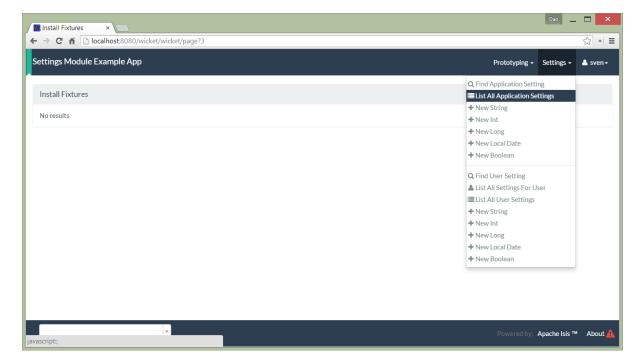




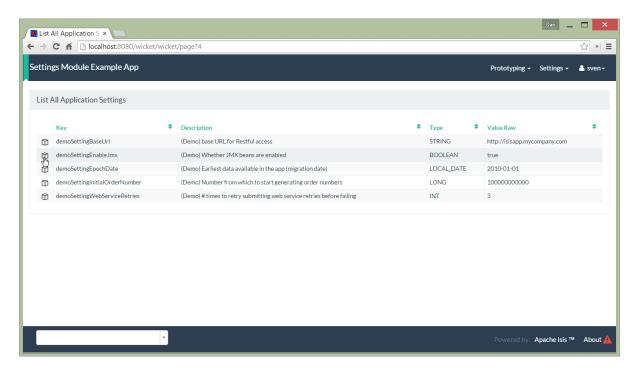
The remaining screenshots below **do** demonstrate the functionality of this module, but are out of date in that they are taken from the original isisaddons/incodehq module (prior to being amalgamated into the incode-platform).

App Settings

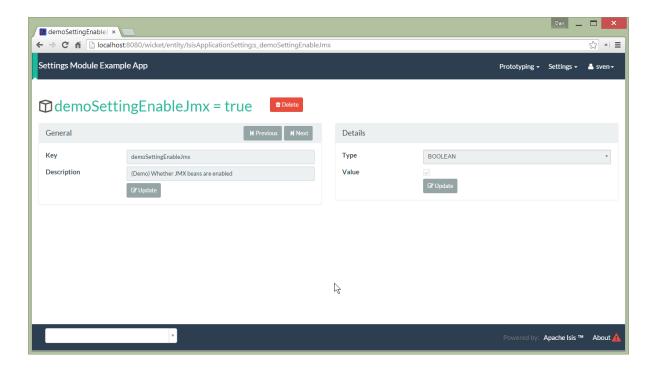
List all (demo) application settings:



listed in a table:

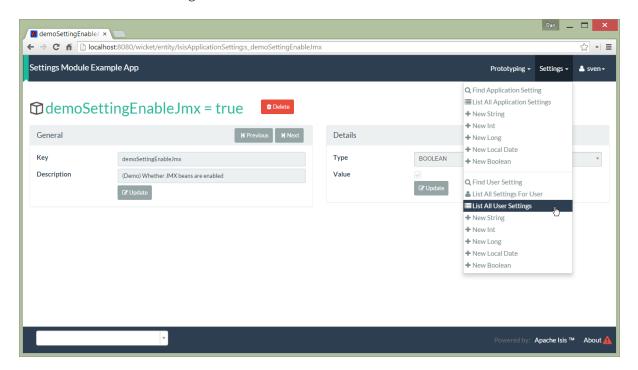


and inspect detail:

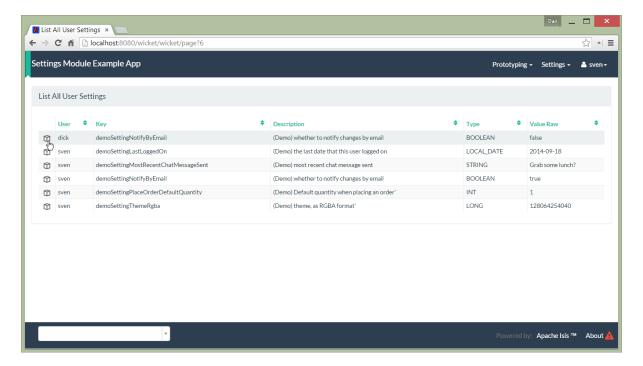


User Settings

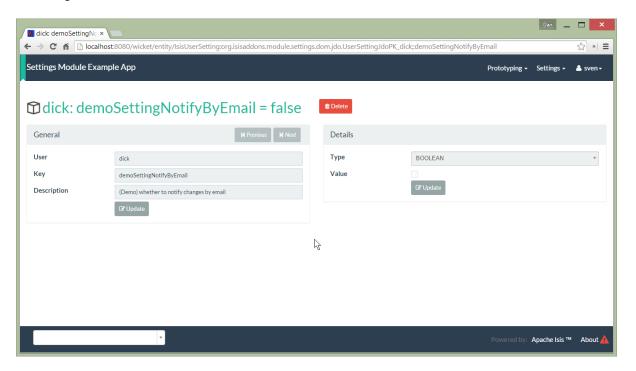
List all (demo) user settings:



listed in a table:



and inspect detail:



How to configure/use

Classpath

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

```
<dependency>
    <groupId>org.isisaddons.module.settings</groupId>
    <artifactId>isis-module-settings-dom</artifactId>
    <version>1.15.0</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:

API

ApplicationSettingsService and ApplicationSettingsServiceRW

The module defines two interfaces for application settings. The first, ApplicationSettingsService, provides read-only access:

```
public interface ApplicationSettingsService {
   ApplicationSetting find(String key);
   List<ApplicationSetting> listAll();
}
```

The second, ApplicationSettingsServiceRW, extends the first and allows settings to be created:

```
public interface ApplicationSettingsServiceRW extends ApplicationSettingsService {
    ApplicationSetting newBoolean(String name, String description, Boolean
    defaultValue);
    ApplicationSetting newString(String name, String description, String defaultValue
);
    ApplicationSetting newLocalDate(String name, String description, LocalDate
    defaultValue);
    ApplicationSetting newInt(String name, String description, Integer defaultValue);
    ApplicationSetting newLong(String name, String description, Long defaultValue);
}
```

UserSettingsService and UserSettingsServiceRW

The module defines two interfaces for user settings. These are almost identical to the application settings above, the significant difference being each setting is additional identified by the username that 'owns' it.

The first interface, UserSettingsService, provides read-only access:

```
public interface UserSettingsService {
    UserSetting find(String user, String key);
    List<UserSetting> listAll();
    List<UserSetting> listAllFor(String user);
}
```

The second, UserSettingsServiceRW, extends the first and allows settings to be created:

```
public interface UserSettingsServiceRW extends UserSettingsService {
    UserSetting newBoolean(String user, String name, String description, Boolean
    defaultValue);
    UserSetting newString(String user, String name, String description, String
    defaultValue);
    UserSetting newLocalDate(String user, String name, String description, LocalDate
    defaultValue);
    UserSetting newInt(String user, String name, String description, Integer
    defaultValue);
    UserSetting newLong(String user, String name, String description, Long
    defaultValue);
}
```

Implementation

The ApplicationSettingsServiceJdo implements ApplicationSettingsServiceRW (and therefore also ApplicationSettingsService).

Similarly, the UserSettingsServiceJdo implements UserSettingsServiceRW (and therefore also UserSettingsService).

Known issues

None known at this time.

Dependencies

Maven can report modules dependencies using:

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

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

The module *does* use icons from icons8.