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This module (incode-module-fixturesupport) provides support for writing fixtures.

How to configure/use

Classpath

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

```
<dependency>
     <groupId>org.incode.module.fixturesupport</groupId>
     <artifactId>incode-module-fixturesupport-dom</artifactId>
     <version>1.15.1.1</version>
</dependency>
```

Check for later releases by searching Maven Central Repo.

For instructions on how to use the latest -SNAPSHOT, see the contributors guide.

Utilities

DemoData

The DemoData interface, and supporting DemoData.Util utility class, is intended to allow type-safe datasets to be set up. It is defined as:

```
public interface DemoData<D extends Enum<D>, T> {
    T asDomainObject();
    T persistUsing(ServiceRegistry2 serviceRegistry);
    T findUsing(ServiceRegistry2 serviceRegistry);
}
```

① From ServiceRegistry the class can either lookup the low-level RepositoryService, or can lookup a higher-level domain-specific service (eg CustomerRepository).

To use, assume we have a domain object such as:

```
public class DemoInvoice implements Comparable<DemoInvoice> {
    @lombok.Builder
                                                                      1
    public DemoInvoice(
            int num,
            LocalDate dueBy,
            int numDays,
            String atPath) {
        this.num = num;
        this.dueBy = dueBy;
        this.numDays = numDays;
        this.atPath = atPath;
    }
    private int num;
                                                                      2
    private LocalDate dueBy;
    private int numDay;
    private String atPath;
}
```

- ① Lombok-generated builder
- ② corresponding fields (JDO annotations and Isis etc. not shown, for brevity)

We then define a corresponding "data" subclass as an enum, implementing DemoData. For example:

```
@lombok.AllArgsConstructor
@lombok.Getter
public enum DemoInvoiceData implements DemoData<DemoInvoiceData, DemoInvoice> {
    Invoice1(1, new LocalDate(2017,1,31), 30, "/"),
                                                                              1
    Invoice2(2, new LocalDate(2017,1,20), 60, "/ITA"),
    Invoice3(3, new LocalDate(2017,1,25), 90, "/FRA"),
    private final int num;
                                                                              2
    private final LocalDate dueBy;
    private final int numDay;
    private final String atPath;
    @Programmatic
    public DemoInvoice asDomainObject() {
        return DemoInvoice.builder()
                                                                              (3)
                    .num(num)
                    .dueBy(dueBy)
                    .numDays(numDay)
                    .atPath(atPath)
                    .build();
    @Programmatic
    public DemoInvoice persistUsing(ServiceRegistry2 serviceRegistry) {
        return Util.persist(this, serviceRegistry);
                                                                              (4)
    }
    @Programmatic
    public DemoInvoice findUsing(ServiceRegistry2 serviceRegistry) {
        return Util.firstMatch(this, serviceRegistry);
                                                                              (5)
    }
    . . .
}
```

- 1 the data sets to create
- ② mirror the fields in the domain object
- ③ using the @Builder provided by the domain object
- 4 delegates to DemoData. Util to create and persist an instance of the domain object
- (5) delegates to DemoData. Util to find an existing instance of the domain object

A fixture script can then be written by subclassing the supporting <code>DemoDataPersistAbstract</code> fixture script. We suggest this script is implemented as a nested static class,eg:

The fixture script can now be used in the setup for tests, or used as within a larger composite fixture scripts:

```
final DemoInvoiceData.PersistScript fs = new DemoInvoiceData.PersistScript();
fixtureScripts.runFixtureScript(fs, null);
```

Optionally, the number of instances to create can be specified:

```
final DemoInvoiceData.PersistScript fs = new DemoInvoiceData.PersistScript().
setNumber(1);
fixtureScripts.runFixtureScript(fs, null);
```

Each data instance can also be used to find the corresponding domain object:

```
final DemoInvoice invoice1 = DemoInvoiceData.Invoice1.findUsing(serviceRegistry);
...
```

Known issues

None known at this time.

Dependencies

Maven can report modules dependencies using:

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

which, excluding Incode Platform and Apache Isis modules, returns no direct compile/runtime dependencies.

From the Incode Platform it uses:

• base library module