

## KRA Kuali Research Administration : Exercise 3

This page last changed on Jan 25, 2008 by [bhutchinson](#).



### Exercise 3:

Create a Transactional Document, including the Java class, OJB, and required Data Dictionary file.

## Exercise Goal

At the end of this exercise, you should have working Transactional Document and all supporting structures, including OJB mappings and Data Dictionary xml files for the following entities:

- Proposal Development Document



The Proposal Development Document artifacts are mostly shells that need to have details populated by you.

## Java Document Class

### ProposalDevelopmentDocument

1. create the `ProposalDevelopmentDocument` Document class in the `org.kuali.kra.proposaldevelopment.document` package
2. add the following attributes and their corresponding setters & getters
  - `proposalNumber` (Integer)
  - `proposalTypeCode` (String)
  - `ownedByUnitNumber` (String)
  - `sponsorCode` (String)
  - `requestedStartDateInitial` (java.sql.Date)
  - `requestedEndDateInitial` (java.sql.Date)
  - `title` (String)
  - `sponsor` (Sponsor)
  - `ownedByUnit` (Unit)

## OJB Mapping

1. Add attribute mappings for the Proposal Development Document to the repository.xml file; here's the DDL for reference:

```
CREATE TABLE "EPS_PROPOSAL"
(
  "DOCUMENT_NUMBER"          NUMBER(10,0) CONSTRAINT "EPS_PROPOSAL_N1" NOT NULL ENABLE,
  "PROPOSAL_NUMBER"          NUMBER(12,0) CONSTRAINT "EPS_PROPOSAL_N2" NOT NULL ENABLE,
  "PROPOSAL_TYPE_CODE"        VARCHAR2(3),
  "SPONSOR_CODE"              VARCHAR2(6),
  "REQUESTED_START_DATE_INITIAL" DATE,
  "REQUESTED_END_DATE_INITIAL" DATE,
  "TITLE"                     VARCHAR2(150),
  "VER_NBR"                   NUMBER(8,0) DEFAULT 1 CONSTRAINT "EPS_PROPOSAL_N7" NOT NULL
  ENABLE,
  "OBJ_ID"                    VARCHAR2(36) DEFAULT SYS_GUID() CONSTRAINT "EPS_PROPOSAL_N8"
  NOT NULL ENABLE,
  CONSTRAINT "EPS_PROPOSAL_P1" PRIMARY KEY ("PROPOSAL_NUMBER") ENABLE,
  CONSTRAINT "EPS_PROPOSAL_C0" UNIQUE ("OBJ_ID") ENABLE
)
```

## Data Dictionary Configuration Files

1. populate `org.kuali.kra.datadictionary.ProposalDevelopmentDocument.xml`
  - a. Set the Document class appropriately

- b. Set Document Authorizer class to be TransactionalDocumentAuthorizerBase
- c. Set Business Rules class to be TransactionalDocumentRuleBase
- d. Set attribute validations to be appropriate for their associated data types.

## Try it out

1. Run the `org.kuali.kra.proposaldevelopment.document.ProposalDevelopmentDocumentTest` unit test, and it should pass if everything is wired up correctly.



Since one of the unit test lifecycles clears the data out of the test database, and we are using a shared test database, we need to coordinate testing so only one person is running this unit test at a time.