Beanshell vs Javascript

Description

> Soffid 4 configures the smart engine with **Javascript** scripting language as the default. See Smart engine settings.

> Previously, the default engine was Beanshell, and many scripts will need to be adapted.

This page lists these differences.

Related objects

- Smart engine settings : where the engine is configured.
- Where we can use scripts:
  - Agents : properties, mappings and triggers
  - Custom scripts : all the scripts
  - Account naming rules : script to validate and set name
  - Role assignment rules : script to validate
  - BPM editor : visualization, triggers, transitions
  - Password policies : optional script

Table of differences

Topic	Beanshell	Javascript

variable	s = "text";	// The use of var should be mandatory,
		//but it almost always works without using it.
		var s = "text";
		
		or
		
		s = "text";

function	public void doSomething(String system) {
	  ...
	}
	doSomething("APP_USERS");
		function doSomething(system) {
		  ...
		}
		doSomething("APP_USERS");

for	for (user : listOfUsers) {
	  ...
	}
		for (var i=0; i<listOgUsers.size(); i++)
		{
		  ...
		}

equals	user == null	user === null
equals	userName.equals("myName")	userName === "myName"

java class	es.caib.seycon.ng.comu.AccountType	Java.type("es.caib.seycon.ng.comu.AccountType")
		
		// We can also generate objects without Java.type
		query = new com.soffid.zkdb.api.Query();
		
		or
		
		Query = Java.type("com.soffid.zkdb.api.Query");
		query = new Query();

catch / printStackTrace	} catch(Exception e) {
	  e.printStackTrace(out);
	}
		} catch(e) {
		  out.println(e.message);
		}

printStackTrace	e.printStackTrace(out)	out.println(e.message) + out.println(e.stack)
non-existent attributes	if (userName==void) ...	if (typeof userName === 'undefined') ...

Search in Soffid 4

> In Soffid 4 the findObjectByJsonQuery method no longers exits, it has been replaced by findObjects with or without pagination.

List users

```
q = new com.soffid.zkdb.api.Query();
pr = serviceLocator.getUserService().findUsers(q);
lu = pr.getResources();
for (i=0; i<lu.size(); i++) {
  u = lu.get(i);
  out.println(u.userName);
}
```

List users with pagination

```
us = serviceLocator.getUserService();
q = new com.soffid.zkdb.api.Query();
q.startIndex = 0;
q.pageSize = 2;
do {
  out.println("Searching...");
  pr = us.findUsers(q);
  lu = pr.getResources();
  for (i=0; i<lu.size(); i++) {
    u = lu.get(i);
    out.println("   "+u.userName);
  }
  q.startIndex = q.startIndex+pr.itemsPerPage;
} while (q.startIndex<pr.totalResults);
```

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