

# Sample Scripts BPM

## Start Step

### Validations

```
a = executionContext.getVariable("firstName");
if (a==null || "".equals(a.trim()))
    throw new Exception("First name is mandatory");

a = executionContext.getVariable("lastName");
if (a==null || "".equals(a.trim()))
    throw new Exception("Last name is mandatory");

.....

a = executionContext.getVariable("userName");
lu = serviceLocator.getUserService().findUserByJsonQuery("userName eq \""+a+"\" ");
if (!lu.isEmpty())
    throw new Exception("The user name is in use, please choose another one");

e = executionContext.getVariable("emailAddress");
lu = serviceLocator.getUserService().findUserByJsonQuery("emailAddress eq \""+e+"\" ");
if (!lu.isEmpty())
    throw new Exception("The email is in use, please choose another one");

.....

return true;
```

## Trigger onChange

Calculate the email when firstName or lastName changes and depending on the userType:

```

firstName = (inputFields.get("firstName")!=null) ? inputFields.get("firstName").value : null;
lastName = (inputFields.get("lastName")!=null) ? inputFields.get("lastName").value : null;
userType = (inputFields.get("userType")!=null) ? inputFields.get("userType").value : null;

if (firstName!=null && !firstName.trim().isEmpty() &&
    lastName!=null && !lastName.trim().isEmpty() &&
    userType!=null && !userType.trim().isEmpty()) {

    emailAddress = firstName + "." + lastName;

    if ("E".equals(userType)) {
        emailAddress = emailAddress + ".ext@soffid.com";
    } else {
        emailAddress = emailAddress + "@soffid.com";
    }
    inputFields.get("emailAddress").value = emailAddress;
}

```

Calculate the user name depending on the first and last name

```

firstName = (inputFields.get("firstName")!=null) ? inputFields.get("firstName").value : null;
lastName = (inputFields.get("lastName")!=null) ? inputFields.get("lastName").value : null;
middleName = (inputFields.get("middleName")!=null) ? inputFields.get("middleName").value : null;
userType = (inputFields.get("userType")!=null) ? inputFields.get("userType").value : null;
primaryGroup = (inputFields.get("primaryGroup")!=null) ? inputFields.get("primaryGroup").value : null;

if (firstName!=null && !firstName.trim().isEmpty() &&
    lastName!=null && !lastName.trim().isEmpty()) {

    // Erase blank spaces
    while (firstName.contains(" "))
        firstName = firstName.replace(" ", "");
    fn = firstName.trim().split(" ")[0];
    fn = fn.substring(0,1).toUpperCase() + fn.substring(1).toLowerCase();

    // Erase blank spaces
    while (lastName.contains(" "))
        lastName = lastName.replace(" ", "");
    ln = lastName.trim().split(" ");
    ln = "";
}

```

```

for (w : lna) {
    ln = ln + w.substring(0,1).toUpperCase() + w.substring(1).toLowerCase();
}
un = fn+"."+ln;
// Check, if user exist we will add the first letter of the second name
u = serviceLocator.getUserService().findUserByUserName(un);
if (u!=null && middleName!=null && !middleName.trim().isEmpty()) {
    un = un+middleName.substring(0,1).toUpperCase();
}
// Max length 20 characters
if (un.length()>20)
    un = un.substring(0,20);
inputFields.get("userName").value = un;
}

```

## Outgoing transitions

Set values to variables that will be available in the next step.

```

un = executionContext.getVariable("userName");
executionContext.setVariable("userSelector",un);
executionContext.setVariable("action","M");

```

# Approve

## Outgoing transitions

Remove a previous roles

```

un = executionContext.getVariable("userName");
t = executionContext.getVariable("title");
lra = serviceLocator.getApplicationService().findUserRolesByUserName(un);
for (ra : lra) {
    if (ra.roleName.equals(t)) {
        serviceLocator.getApplicationService().delete(ra);
        break;
    }
}
}

```

## Save new role

```
p = executionContext.getVariable("newTitle");
if (p==null || "".equals(p.trim()))
    throw new Exception("El nuevo puesto de trabajo es obligatorio");

executionContext.setVariable("title", p)
```

# End Step

## Incoming transition

Add a role to the user in case the role exists and it is the same that the user title.

```
SYS = "soffid";

un = executionContext.getVariable("userName");
if (un==null)
    return true;

t = executionContext.getVariable("title");
if (t==null)
    return true;

q = "name eq \"\"+t+"\" and system eq \"\"+SYS+"\"";
lr = serviceLocator.getApplicationService().findRoleByJsonQuery(q);
if (lr==null || lr.isEmpty())
    return true;

r = lr.get(0);
app = r.informationSystemName;

ra = new com.soffid.iam.api.RoleAccount();
ra.setRoleName(t);
ra.setSystem(SYS);
ra.setInformationSystemName(app);
ra.setUserCode(un);
ra.setDomainValue(new com.soffid.iam.api.DomainValue());
```

```
serviceLocator.getApplicationService().create(ra);  
return true;
```

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