**Solar Village**

This project is developed using Process Automation Engine 7 (PAM7) where we can send and process the order request, get the approval from government Agencies and complete the request.

**Main features:**

* Process the new order request
* Get Approval from HOA (using human task i.e.,we can claim the task by using an admin role)
* After approval,parallel process will happen to send and persists permit requests(webservices developed using spring-boot.The webservice process also contains the service to check the database for any of the pending task and approve that.)
* If approved,the process will be completed.
* If denied,the rollback of data will happen.

**Prereqs:**

* Java
* Maven
* PAM7 with kie server
* Oracle database
* Springboot project(GovernmentPermit)

**Installation:**

* Install PAM7 and kie server ( I have a JBPM)
* Configure database with following details(for springboot project)(change the configuration as you need in application-properties)

**url**: jdbc:oracle:thin:@localhost:1521:xe

**username**: test\_database

**password**: asdf123

* clone the repo
* Build and deploy the SolarVillage project with kie-container creation)
* Build the Government Permit project and start using
* Java –jar GovernmentPermit.jar (or) mvn spring-boot:run

**Test the project:**

* If you use the container name with the same name of the project GAV, (i.e SolarVillage\_3.0.13) you will be able to see in Business Central, all the process instances and tasks created created by Kie Server.

**Kie Server REST API:**

* Headers to use with POST and PUT (Auth required, you can use i.e JBPM user): Accept:application/json Content-Type:application/json

**To Start Process Instance:(will get processinstance id): (POST method)**

http://localhost:8080/kie-server/services/rest/server/containers/SolarVillage\_3.0.13/processes/SolarVillage.neworderpermitting/instances

{

"newOrder": {

"com.myspace.solarvillage.NewOrder": {

"id": 2,

"name": "saranya",

"address": "M Street Demo",

"isAssociatedWithHOA": true

}

}

}

**List available tasks for potential owners : (here we can see the tasks with task id and the owners and groups)**

http://localhost:8080//kie-server/services/rest/server/queries/tasks/instances/pot-owners

**Salesman approval from sales department group to accept the HOA meeting**

* Claim task with taskinstance id for own user ( I am JBPM user) (PUT method)

http://localhost:8080/kie-server/services/rest/server/containers/SolarVillage\_3.0.13/tasks/{taskinstanceid}/states/claimed?user=jbpm

* Start task with taskinstance id for own user ( I am JBPM user)(PUT method)

http://localhost:8080/kie-server/services/rest/server/containers/SolarVillage\_3.0.13/tasks/{taskinstanceid}/states/started?user=jbpm

* Complete task with taskinstance id for own user ( I am JBPM user)(PUT Method)

http://localhost:8080/kie-server/services/rest/server/containers/SolarVillage\_3.0.13/tasks/{taskinstanceid}/states/completed?user=jbpm

{

"newOrder": {

"com.myspace.solarvillage.NewOrder": {

"id": 2,

"name": "saranya",

"address": "M Street Demo",

"isAssociatedWithHOA": true,

"isMeetingScheduled": true

}

}

}

**After 30 S,HOA meeting will happen.here,the task will be waiting to get approval from HOA group**

So repeat the steps to claim and start the process as a jbpm user)

* http://localhost:8080//kie-server/services/rest/server/queries/tasks/instances/pot-owners
* http://localhost:8080/kie-server/services/rest/server/containers/SolarVillage\_3.0.13/tasks/{taskinstanceid}/states/claimed?user=jbpm
* http://localhost:8080/kie-server/services/rest/server/containers/SolarVillage\_3.0.13/tasks/{taskinstanceid}/states/started?user=jbpm
* http://localhost:8080/kie-server/services/rest/server/containers/SolarVillage\_3.0.13/tasks/{taskinstanceid}/states/completed?user=jbpm

{

"newOrder": {

"com.myspace.solarvillage.NewOrder": {

"id": 2,

"name": "saranya",

"address": "M Street Demo",

"isAssociatedWithHOA": true,

"isMeetingScheduled": true,

"isApprovedFromHOA":true

}

}

}

