Task-12 CODE

EVENT LISTENER FOR CREATING PAGE WORKFLOW STARTED

```
package com.adobe.aem.guides.demo.core.listeners;

import java.util.HashMap;
import java.util.Map;

import javax.jcr.Session;

import org.apache.sling.api.resource.LoginException;
import org.apache.sling.api.resource.Resource;
import org.apache.sling.api.resource.ResourceResolver;
import org.apache.sling.api.resource.ResourceResolverFactory;
import org.osgi.service.component.annotations.Component;
import org.osgi.service.component.annotations.Reference;
import org.osgi.service.event.Event;
import org.osgi.service.event.EventConstants;
import org.osgi.service.event.EventHandler;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

import com.day.cq.workflow.WorkflowException;
import com.day.cq.workflow.WorkflowService;
import com.day.cq.workflow.WorkflowSession;
import com.day.cq.workflow.exec.WorkflowData;
import com.day.cq.workflow.model.WorkflowModel;

@Component(service = EventHandler.class, immediate = true,
  property = {
     EventConstants.EVENT_TOPIC + "=org/apache/sling/api/resource/Resource/ADDED"
  }
)
public class PageCreation implements EventHandler {
  private static final Logger log = LoggerFactory.getLogger(PageCreation.class);

  @Reference
  private WorkflowService workflowService;

  @Reference
  private ResourceResolverFactory resolverFactory;
```

```
    @Override
    public void handleEvent(Event event) {
        log.info("Page creation event triggered");
        handleResourceAddedEvent(event);
    }

    private void handleResourceAddedEvent(Event event) {
                String path = (String) event.getProperty("path");

//          log.info("Resource added at path: {}", path);

        ResourceResolver resourceResolver = null;
        try {
            Map<String, Object> param = new HashMap<>();
            param.put(ResourceResolverFactory.SUBSERVICE, "hemanth");
            resourceResolver = resolverFactory.getServiceResourceResolver(param);
            Resource resource = resourceResolver.getResource(path);

            if (resource != null && resource.isResourceType("cq:Page")) {
                log.info("Page created at path: {}", path);
                startWorkflow(path);
            }
        } catch (LoginException e) {
            log.error("Error obtaining resource resolver", e);
        } finally {
            if (resourceResolver != null) {
                resourceResolver.close();
            }
        }
    }


    private void startWorkflow(String payloadPath) {
        Map<String, Object> param = new HashMap<>();
        param.put(ResourceResolverFactory.SUBSERVICE, "hemanth");
        try (ResourceResolver resolver = resolverFactory.getServiceResourceResolver(param)) {
            Session session = resolver.adaptTo(Session.class);
            WorkflowSession workflowSession = workflowService.getWorkflowSession(session);
            String workflowModelPath = "/var/workflow/models/HemanthModel"; // Replace with
your workflow model path
            WorkflowModel workflowModel = workflowSession.getModel(workflowModelPath);
```

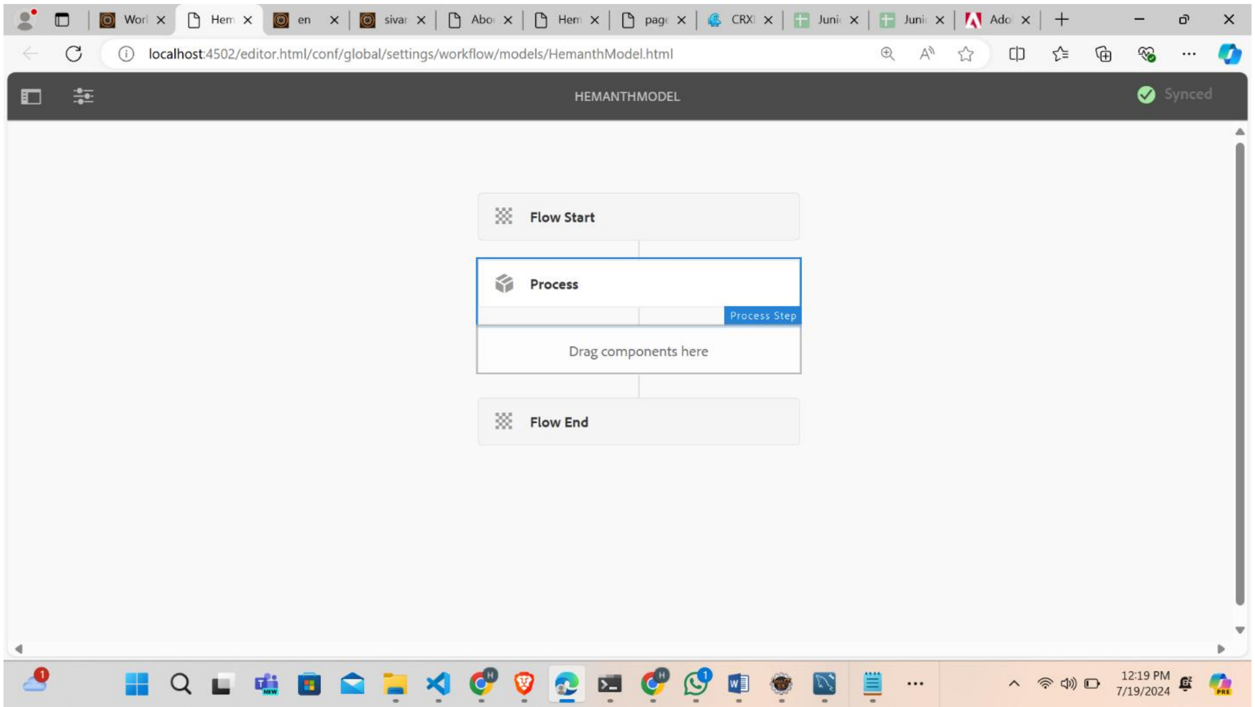
```
      WorkflowData workflowData = workflowSession.newWorkflowData("JCR_PATH",
payloadPath);
      workflowSession.startWorkflow(workflowModel, workflowData);
      log.info("Workflow started for payload: {}", payloadPath);
    } catch (LoginException e) {
      log.error("LoginException while starting workflow", e);
    } catch (WorkflowException e) {
      log.error("WorkflowException while starting workflow", e);
    } catch (Exception e) {
      log.error("Exception while starting workflow", e);
    }
  }
}
```

ADD PROPERTY THROUGH WORKFLOW

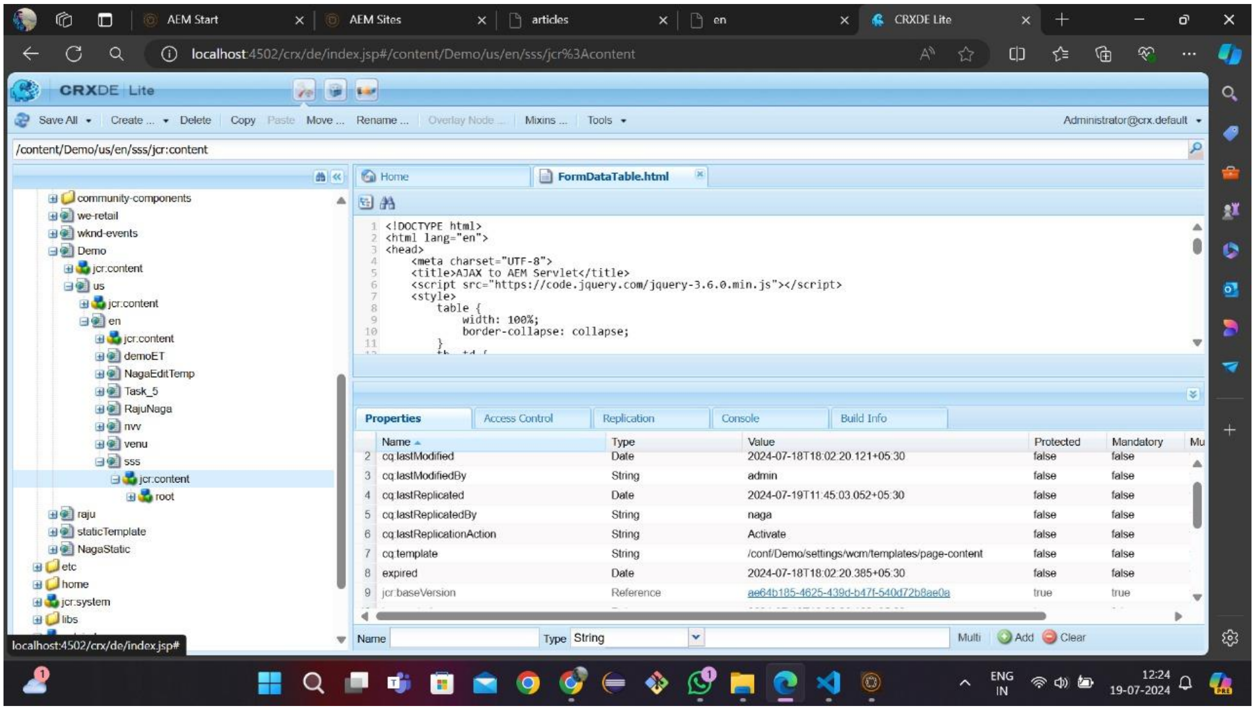
```
package workflow;

import java.util.Calendar;

import java.util.HashMap;

import java.util.Map;

import javax.jcr.Node;

import javax.jcr.Session;

import org.apache.sling.api.resource.LoginException;

import org.apache.sling.api.resource.PersistenceException;

import org.apache.sling.api.resource.ResourceResolver;

import org.apache.sling.api.resource.ResourceResolverFactory;

import org.osgi.service.component.annotations.Component;

import org.osgi.service.component.annotations.Reference;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import com.adobe.granite.workflow.WorkflowSession;

import com.adobe.granite.workflow.exec.WorkItem;

import com.adobe.granite.workflow.exec.WorkflowProcess;

import com.adobe.granite.workflow.metadata.MetaDataMap;
```

```java
@Component(service = WorkflowProcess.class, property = {"process.label=Page Created"})
public class PagecreatedWorkflow implements WorkflowProcess {
  private static final Logger log = LoggerFactory.getLogger(PagecreatedWorkflow.class);
  @Reference
  private ResourceResolverFactory resolverFactory;
  @Override
  public void execute(WorkItem workItem, WorkflowSession workflowSession, MetaDataMap metaDataMap) {
    String payloadPath = workItem.getWorkflowData().getPayload().toString();
    ResourceResolver resourceResolver = null;
    try {
      // Using service user to obtain resource resolver
      Map<String, Object> param = new HashMap<>();
      param.put(ResourceResolverFactory.SUBSERVICE, "hemanth");
      resourceResolver = resolverFactory.getServiceResourceResolver(param);

      Session session = resourceResolver.adaptTo(Session.class);
      Node pageNode = session.getNode(payloadPath);

      if (pageNode != null && pageNode.hasNode("jcr:content")) {
        Node contentNode = pageNode.getNode("jcr:content");
        Calendar currentDate = Calendar.getInstance();
        contentNode.setProperty("expired", currentDate);
        session.save();
        log.info("Property 'expired' added to jcr:content of page at {}", payloadPath);
      } else {
        log.warn("jcr:content node not found for page at {}", payloadPath);
      }
    } catch (Exception e) {
      log.error("Error adding property to jcr:content of page at {}", payloadPath, e);
      throw new RuntimeException(e);
    } finally {
      if (resourceResolver != null) {
        resourceResolver.close();
      }
    }}}
```

WORKFLOW PROCESS STEP



ADD PROPERTY ON CRXDE



/content/Demo/us/en/sss/jcr:content

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>AJAX to AEM Servlet</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
    <style>
        table {
            width: 100%;
            border-collapse: collapse;
        }
```

	Name	Type	Value	Protected	Mandatory	Mu
2	cq:lastModified	Date	2024-07-18T18:02:20.121+05:30	false	false	
3	cq:lastModifiedBy	String	admin	false	false	
4	cq:lastReplicated	Date	2024-07-19T11:45:03.052+05:30	false	false	
5	cq:lastReplicatedBy	String	naga	false	false	
6	cq:lastReplicationAction	String	Activate	false	false	
7	cq:template	String	/conf/Demo/settings/wcm/templates/page-content	false	false	
8	expired	Date	2024-07-18T18:02:20.385+05:30	false	false	
9	jcr:baseVersion	Reference	ae64b185-4625-439d-b47f-540d72b8ae0a	true	true	