

AEM6 Training - Assignment

Implementation Guide

This guide outlines the steps for implementing **workflows, event handling, Sling jobs, scheduling, and user management** in AEM.

1. Create a Custom Workflow (my custom workflow)

Description:

A custom workflow will be created in AEM to handle specific tasks.

Steps:

1. Navigate to **Tools > Workflow > Models** in AEM.
 2. Create a new workflow model named **my custom workflow**.
 3. Add **workflow steps** to process content.
 4. Save and **activate the workflow**.
-

2. Create a Custom Workflow Process to Print Page Title in Logs

Description:

AEM Workflow Process step will be created to log **page titles and metadata**.

Steps:

1. Develop a **custom Workflow Process** class.
2. Extract the **page title** from the resource.
3. Log the **title and metadata** in AEM logs.
4. Assign the workflow to a page and run it.

Code Snippet (CustomWorkflowProcess.java):

```
@Component(service = WorkflowProcess.class, immediate = true)
public class CustomWorkflowProcess implements WorkflowProcess {
```

```

    private static final Logger LOG =
LoggerFactory.getLogger(CustomWorkflowProcess.class);

    @Override

    public void execute(WorkItem workItem, WorkflowSession workflowSession,
MetadataMap metaDataMap) throws WorkflowException {

        String pageTitle = workItem.getWorkflowData().getPayload().toString();

        LOG.info("Processing page: " + pageTitle);

    }
}

```

3. Create an Event Handler in AEM to Print Resource Path in Logs

Description:

An **AEM Event Listener** will log **resource changes**.

Steps:

1. Create an **OSGi Event Listener**.
2. Listen for **resource added/modified/deleted** events.
3. Log the **resource path** in AEM logs.

Code Snippet (EventHandler.java):

```

@Component(service = EventHandler.class)

public class CustomEventHandler implements EventHandler {

    private static final Logger LOG =
LoggerFactory.getLogger(CustomEventHandler.class);

    @Override

    public void handleEvent(Event event) {

        LOG.info("Resource changed: " + event.getProperty("path"));
    }
}

```

```
}  
}
```

4. Create a Sling Job to Print "Hello World" in Logs

Description:

A **Sling Job** will be scheduled to **log a simple message**.

Steps:

1. Develop a **Sling Job class**.
2. Log a **"Hello World"** message.
3. Trigger the job **manually or programmatically**.

Code Snippet (SlingJob.java):

```
@Component(service = JobConsumer.class, immediate = true, property =  
{JobConsumer.PROPERTY_TOPICS + "=com/gautam/hello"})
```

```
public class HelloWorldJob implements JobConsumer {
```

```
    private static final Logger LOG =  
    LoggerFactory.getLogger(HelloWorldJob.class);
```

```
    @Override
```

```
    public JobResult process(Job job) {
```

```
        LOG.info("Hello World from Sling Job");
```

```
        return JobResult.OK;
```

```
    }
```

```
}
```

5. Create a Scheduler to Print "Hello World" in Logs Every 5 Minutes

Description:

An **AEM Scheduler** will print a message at a **fixed interval** using a **cron expression**.

Steps:

1. Create a **Scheduler using OSGi configuration**.
2. Set a **cron job** to run **every 5 minutes**.
3. Log the **"Hello World"** message.

Code Snippet (Scheduler.java):

```
@Component(service = Runnable.class, immediate = true, property = {  
    "scheduler.expression=0 */5 * * * ?" })
```

```
public class HelloWorldScheduler implements Runnable {
```

```
    private static final Logger LOG =  
    LoggerFactory.getLogger(HelloWorldScheduler.class);
```

```
    @Override
```

```
    public void run() {
```

```
        LOG.info("Hello World");
```

```
    }
```

```
}
```

6. Create 3 Users and Add Them to a Group with Read and Replication Access

Description:

Three **users** will be created and added to a **new group** with **limited permissions**.

Steps:

1. Navigate to **Tools > Security > Users**.
2. Create three users: **user1, user2, user3**.
3. Navigate to **Groups** and create a new group **Dev Author**.

4. Add all three users to **Dev Author**.
5. Assign **read-only access** to /content and /dam.
6. Grant **replication access** to the group.

✅ Conclusion

This assignment covers key AEM concepts including **workflows, event handling, Sling jobs, scheduling, and user management**, ensuring a strong foundation in AEM development. 🚀

