

## Exercise: Create and Deploy a Simple BPMN Model Using Flowable Modeler

### Objective:

To guide participants through creating a simple BPMN process using Flowable Modeler and deploying it to the Flowable engine.

### Pre-requisites:

- Flowable environment must be up and running (either using Flowable standalone or Spring Boot starter).
- Access to the Flowable Modeler UI (either via <http://localhost:8080/flowable-modeler> or as part of a full Flowable UI installation).

### Step-by-Step Instructions:

#### 1. Login to Flowable Modeler

- Open your browser and navigate to the Flowable Modeler UI:
  - **URL:** <http://localhost:8080/flowable-modeler>
- Log in using the default credentials:
  - **Username:** demo
  - **Password:** demo

#### 2. Create a New BPMN Model

- After logging in, click on **Create Process** to start a new BPMN model.
- You will be taken to the process designer.

#### 3. Design the BPMN Process

- **Add a Start Event:** Drag the **Start Event** element from the palette on the left to the canvas.
- **Add a User Task:** Drag the **User Task** element and place it after the Start Event.
- **Add an End Event:** Drag the **End Event** element to the canvas, connecting it to the User Task.
- **Connect the Elements:** Use the **Sequence Flow** to connect the elements (Start Event → User Task → End Event).

#### 4. Configure Task Details

- Click on the User Task to configure its properties, such as task name and assignee (optional). You can set the task to be assigned to a specific user or leave it unassigned for now.
- You can also configure other attributes like forms, deadlines, or priority depending on the task's complexity.

#### 5. Save the BPMN Model

- Once you're satisfied with the model, click on **Save** in the top right corner.
- Give your model a name, e.g., `simple-process.bpmn20.xml`.

#### 6. Deploy the BPMN Model

- Go to the **Flowable Admin UI** at <http://localhost:8080/flowable-admin>.
- Log in using the credentials:
  - **Username:** admin
  - **Password:** admin
- In the **Process Definitions** section, click on **Deploy New**.

- Upload the BPMN file you created (`simple-process.bpmn20.xml`).
  - Click **Deploy** to deploy your process model to the Flowable engine.
7. **Start a Process Instance**
- After deployment, go to the **Task Management** section in Flowable Admin.
  - Click on **Start Process** and select the process you just deployed.
  - Start the process, and the instance will appear in the task list.
8. **Complete the Task**
- Once the process instance is running, you can complete the User Task from the **Task Management** interface in Flowable Admin.
  - Mark the task as completed, and the process will finish, reaching the End Event.