**PSK Passport Processing**

**BPMN2.0 Workflow automation-POC**

**-K..Abirami**

**Development Manager -DHIRA Software Labs**

**Table of Content**

1. Basic Operation
   * Applicant Arrival and Security Check
   * Token Issuance and Waiting
2. Basic Flow Diagram
3. Technology Stack
   * Camunda 8 Features Explored: User Form, Decision Table, Gateway
4. BPMN Diagram, Decision Table, and Form Screenshots
5. Camunda Server Output Flow Diagram
6. Application Run and Sample Forms (User Form, Counter A Forms)
7. Artifactory Link for Passport POC Source Code

**Basic operation:**

Applicant arrives at PSK, passes through security check.

Token is issued; applicant waits for their number to be called.

**Counter A:** Biometric data collected, documents scanned, fee paid, and signature captured.

**Counter B:** Documents verified for completeness and correctness by Verification Officer.

**Counter C:** Granting Officer reviews and approves or rejects the application.

If approved, the system initiates passport printing and dispatch; else, a rework or escalation task is triggered based on gateway decision

**Document Validation:**

Original and copies verified by officials Authenticity, completeness, no discrepancy

**Biometric Data:**

Photograph and fingerprints captured Matches applicant, not impersonated

**Police Verification:**

Home visit by local police Address, criminal record, supplied data

**Granting Decision:**

Granting officer reviews and approves All checks cleared, supplementary info verified

**Passport Dispatch.**

**Basic Flow:**

Online application form --> Token generated -->

counter A--->accept-->Counter B

Counter A--> Reject-->Reviewer or Esclation task

counter B--->accept-->Counter C

Counter B--> Reject-->Reviewer or Counter A based on reason or Esclation task

counter C--->accept--> PassportDispatch

Counter C--> Reject--> Reviewer or Counter B or A or Esclation Task

Reviewer --> accept --> with reason back to whom send task to reviewer

Reviewer --> Reject--> Esclation task

**Technology :**

Camunda 8 :

Specifically explored on below functionality:

* User Form:  
  Attached to user tasks; used to collect/display information; built with drag-and-drop or custom forms; linked to process variables; shown in Tasklist or custom apps.
* Decision Table:  
  Defines business rules with DMN; automates decisions based on inputs; simplifies complex logic; invoked from BPMN processes.
* Gateway:  
  Controls process flow branching and merging; types include Exclusive (XOR), Parallel (AND), Inclusive (OR); routes execution based on conditions.

**BPMN Diagram, Decision Table ,Form :**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Camunda Server output Flow Diagram:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Run the Application:**

**User Form:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Counter A Sample Form:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Artifactory Link:**

Passport POC:

https://github.com/dhira-io/Camunda\_passport\_POC/tree/main/passport\_POC