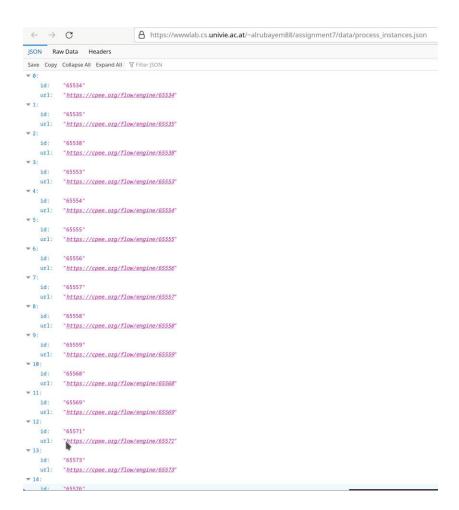
## Link to the last process instance in the cpee cockpit:

https://cpee.org/flow/engine/65640/

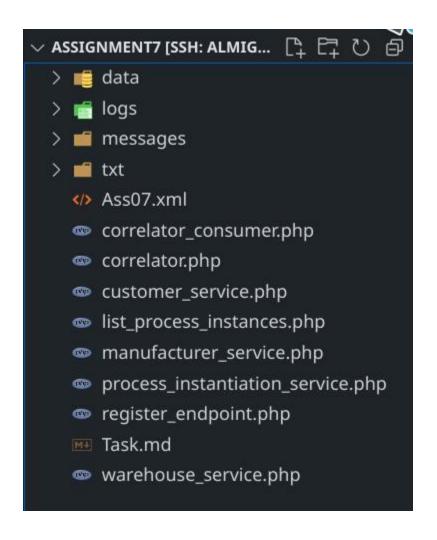
https://cpee.org/flow/?monitor=https://cpee.org/flow/engine/65640/

## Link to the overview of generated process instances:

https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/data/process\_instances.j son



# **Full Solution**



## **Database file:**

## P1 – customer service:

curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/customer\_service.php"

```
maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignm
ent7/customer_service.php" | jq '.'
            % Received % Xferd Average Speed
                                                Time
                                                        Time
                                                                 Time Current
                                                                 Left Speed
                                Dload Upload
                                                Total
                                                        Spent
     151 100
100
                 151
                                   175
                                           0 --:--:-- --:--:--
                       0
                             0
    "category": "Electronics",
    "material_name": "Smartphone"
  },
  {
    "category": "Books",
    "material_name": "Science"
  },
  {
    "category": "Outdoors",
    "material_name": "Tent"
```

## P2 – customer service:

#### curl -X GET

https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/warehouse\_service.php?action=get\_categories

```
maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignm
ent7/warehouse_service.php?action=get_categories" | jq '.'
            % Received % Xferd Average Speed
                                              Time
                                                              Time Current
                                                     Time
                               Dload Upload
                                              Total
                                                     Spent
                                                              Left
                                                                   Speed
100
      65 100
                65
                      0
                                         0 --:--:--
                            0
  "Electronics",
 "Clothing",
 "Furniture",
 "Tools",
 "Books",
  "Outdoors"
```

#### curl -X GET

"https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/warehouse\_service.php?action=get\_materials &category=Electronics"

```
maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignm
ent7/warehouse_service.php?action=get_materials&category=Electronics" | jq '.'
            % Received % Xferd Average Speed
                                              Time
 % Total
                                                      Time
                                                              Time Current
                               Dload Upload
                                              Total
                                                      Spent
                                                              Left Speed
                                         0 --:--:--
100
     103 100
                103
                                 632
    "name": "Camera",
   "quantity": 10
 },
    "name": "Laptop",
   "quantity": 510
 },
    "name": "Smartphone",
   "quantity": 525
```

#### curl -X GET

https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/warehouse\_service.php?action=get\_quantity&category=Electronics&item=Camera

```
maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignm
ent7/warehouse_service.php?action=get_quantity&category=Electronics&item=Camera"
 | jq '.'
 % Total
           % Received % Xferd Average Speed
                                              Time
                                                     Time
                                                              Time Current
                               Dload Upload
                                              Total
                                                     Spent
                                                              Left Speed
100
       2 100
                 2
                            0
                                  11
                                         0 --:--:--
maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignm
ent7/warehouse_service.php?action=get_quantity&category=Electronics&item=Camera"
10maith@debian:~$
```

#### curl -X GET

https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/warehouse\_service.php?action=update\_quantity&category=Electronics&item=Camera&quantity=500

```
maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignmf
ent7/warehouse_service.php?action=update_quantity&category=Electronics&item=Came
ra&quantity=500"
{"message":"Quantity updated to 500 for Camera"}maith@debian:~$
```

#### P3: Manufacturer Service

curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/manufacturer\_service.php?id=5"

```
maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignm
ent7/manufacturer_service.php?id=5"
{
    "description": "Quality Check In Progress",
    "progress": "5"
}maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assign
ment7/manufacturer_service.php?id=1"
{
    "description": "Order Received",
    "progress": "1"
}maith@debian:~$
```

## **Initiate instance:**

#### curl -X POST

"https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/process\_instantiation\_service.php" \

```
-F "behavior=fork_running" \
```

- -F "xml=https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/Ass07.xml" \
- -H "Content-Type: multipart/form-data"

```
maith@debian:~$ curl -X POST "https://wwwlab.cs.univie.ac.at/~alrubayem88/assign
ment7/process_instantiation_service.php" \
-F "behavior=fork_running" \
-F "xml=https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/Ass07.xml" \
-H "Content-Type: multipart/form-data"
{"success":"Process instance created successfully.","data":{"CPEE-INSTANCE":"656
45","CPEE-INSTANCE-URL":"https:\/\/cpee.org\/flow\/engine\/65645","CPEE-INSTANCE
-UUID":"d2991075-61b1-41ec-b75c-136463a44292","CPEE-BEHAVIOR":"fork_running"}}ma
```

### **List of instances:**

curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/list\_process\_instances.php"

```
aith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/list_process_instance
.php"

{
    "id": "65534",
    "url": "https:\/\/cpee.org\/flow\/?monitor=https:\/\/cpee.org\/flow\/engine\/65534"
},
    {
    "id": "65535",
    "url": "https:\/\/cpee.org\/flow\/?monitor=https:\/\/cpee.org\/flow\/engine\/65535"
},
    {
    "id": "65538",
    "url": "https:\/\/cpee.org\/flow\/?monitor=https:\/\/cpee.org\/flow\/engine\/65538"
},
```

## **Correlator:**

```
curl -X POST "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/correlator.php" \
-H "Content-Type: application/json" \
-H "Destination: https://example.com/destination_endpoint" \
-H "CPEE-INSTANCE: example-instance" \
-H "CPEE-INSTANCE-UUID: example-uuid" \
-d '{"progress":"5","description":"Stage Complete"}'
```

```
maith@debian:~$ curl -X POST "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/correlator.php" \
-H "Content-Type: application/json" \
-H "Destination: https://example.com/destination_endpoint" \
-H "CPEE-INSTANCE: example-instance" \
-H "CPEE-INSTANCE-UUID: example-uuid" \
-d '{"progress":"5","description":"Stage Complete"}'
{"status":"success"}maith@debian:~$
```

curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/correlator.php?action=get\_tag"

```
maith@debian:~$ curl -X GET "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignm
ent7/correlator.php?action=get_tag"
{"status":"success","tag":"6689de4b8d6b8"}maith@debian:~$
```

### **Consumer:**

curl -X POST https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/correlator\_consumer.php

```
maith@debian:~$ curl -X POST "https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment7/correlator_consumer.
php"
{"status":"success","message":"Message processed and forwarded successfully.","destination":null}maith@deb
ian:~$
```