



# ProcessMaker

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# Why we are behind...



processmaker/src/processmaker/workflow/engine/classes/model/0authClients.php

```
182 $criteriaCount = clone $criteria;
183 $criteriaCount->clearSelectColumns();
184 $criteriaCount->addSelectColumn("COUNT(" . 0authClientsPeer::CLIENT_ID . ") AS NUM_REC");
185 $criteriaCount->addGroupByColumn("UPPER(" . 0authClientsPeer::CLIENT_NAME . ")");
186
187 $rsCriteriaCount = 0authClientsPeer::doSelectRS($criteriaCount);
188 $rsCriteriaCount->setFetchmode(ResultSet::FETCHMODE_ASSOC);
```

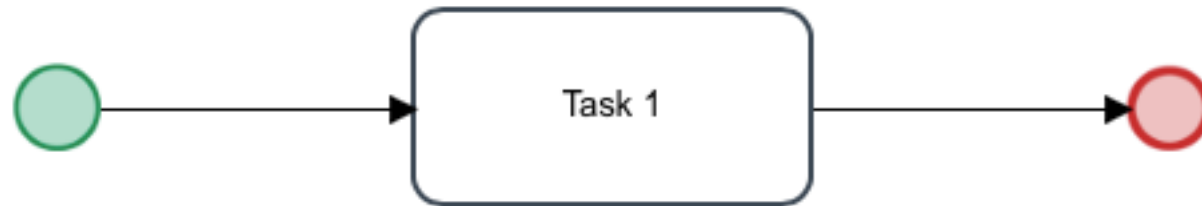
# Preparing the API



- Dedicated **Unicorn** user
- OAuth Authentication
- Predesigned process lined up
- Starting task assigned to **Unicorn**

# Starting a Case

1. List all projects
2. List all starting tasks in the project
3. Start a new case
4. Route the case



# List All Projects

**GET** `http://pm.dev/api/1.0/workflow/project`

```
{  
  "prj_uid": "128802661575f0e5902a540078286746",  
  "prj_name": "test_1",  
  "prj_description": "",  
  "prj_category": "",  
  "prj_type": "bpmn",  
  "prj_create_date": "2016-06-13 15:49:45",  
  "prj_update_date": "2016-06-13 15:50:09",  
  "prj_status": "ACTIVE"  
}
```

# List All Starting Tasks in the Project



**GET** .../workflow/project/{prj\_uid}/starting-tasks

```
{  
  "act_name": "Task 1",  
  "act_uid": "663733506575f0e71a8e9e4024635663"  
}
```

# Start a new Case

**POST** `http://pm.dev/api/1.0/workflow/cases`

Key	Previous	Value
pro_uid	prj_uid	128802661575f0e5902a540078286746
tas_uid	act_uid	663733506575f0e71a8e9e4024635663

```
{  
  "app_uid": "346307495575f1597f16056092772855",  
  "app_number": 1  
}
```



# Route a Case



```
PUT /api/1.0/workflow/cases/{app_uid}/route-case
```

# Our System



## **Problem:**

ProcessMaker doesn't take BPMN extensions

# Our System

- ...will take data from Unicon
- ...will extract the query ID

`<cep:query id="query1"> ... </cep:query>`

- ...will extract additional info

`<cep:code>...</cep:code>`

- ...uses the PM API to start / interact with cases

# Challenges

- Start a new case or is there one already waiting?
  - Idea: `app_id = -1` starts new case
  - How does Unicorn know Case IDs?
- Which Project to start / interact with?
  - 1-to-1 mapping
  - Hard-coded
  - Naming convention

# Roadmap

- Get a more stable prototype



# Terminology



<b>BPMN</b>	<b>ProcessMaker</b>
Model	Project or Process
Process	Cases
Task	Task