# Feature Aggregation in Process Mining User Manual

January 7, 2022

#### 1 Prerequisite

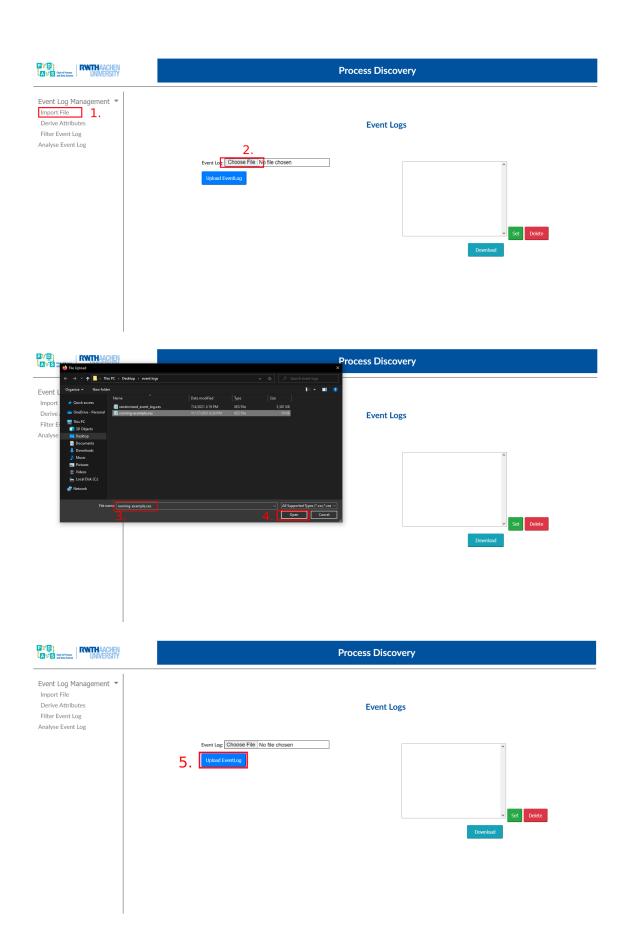
Make sure Docker is installed on your system. If not it can be installed from https://docs.docker.com/desktop/windows/install/.

### 2 Start the Application

- 1. clone the application from: https://github.com/KLiehr/WS2122---Feature-Aggregation-and-Clustering/tree/master3
- 2. open the command prompt and navigate to the directory folder of the application
- 3. Build the docker image using command: docker build . -t feature\_agg
- 4. Run the docker container using command: docker run -t -p 8000:8000 feature\_agg
- 5. Open http://127.0.0.1:8000/ or http://localhost:8000/ in browser to start the application

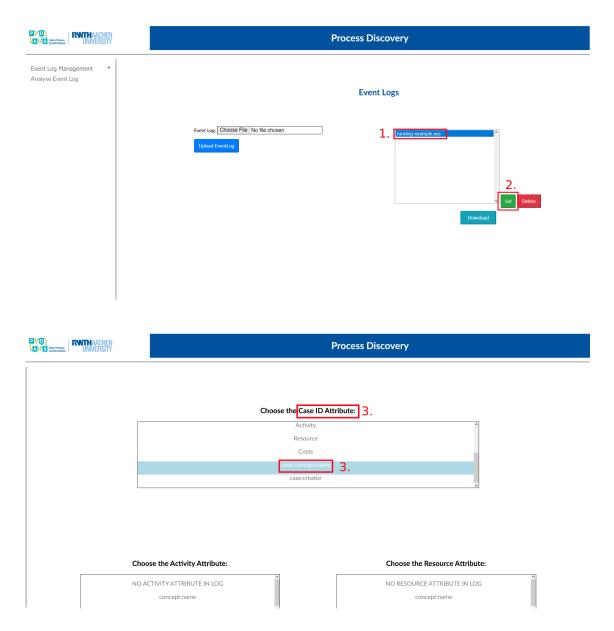
## 3 Upload Event log

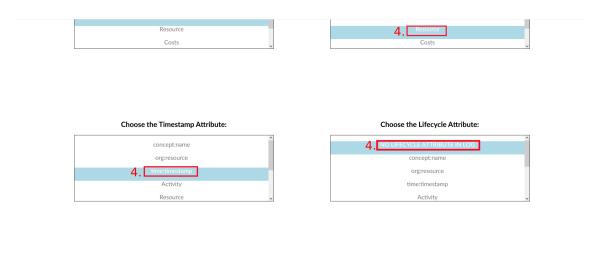
- 1. Press Import File listed under Event Log Management
- 2. Press Choose File
- 3. Select the event log you want
- 4. Press **Open** to upload the event log
- 5. Press Upload EventLog
- 6. The uploaded eventlog can now be selected



## 4 Set Event log

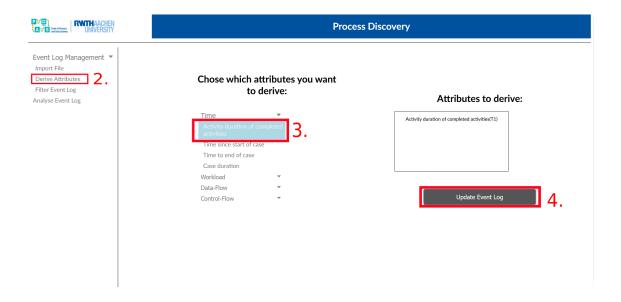
- 1. Press the Event log you want to select
- 2. Press **Set**
- 3. Press the name of the column in the event log corresponding to the Case ID Attribute
- 4. Repeat for the Activity, Resource, Timestamp and Lifecycle Attribute
- 5. Press Save





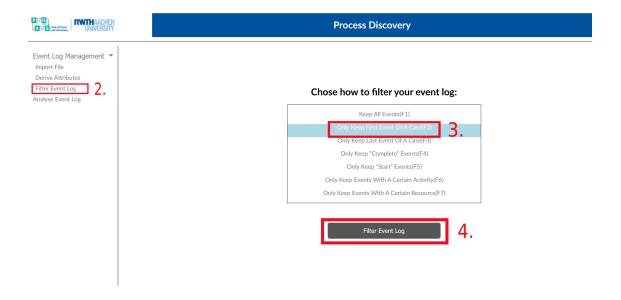
### 5 Derive Attributes

- 1. Select an event log of choice (see section 4) if not already set
- 2. Press Derive Attributes listed under Event Log Management
- 3. Chose the derived attribute by pressing the filter category and then the filter (multiple filter possible)
- 4. Press Update Event Log
- 5. The augmented event log can now be found in the  $\mathbf{Import}$   $\mathbf{File}$  section



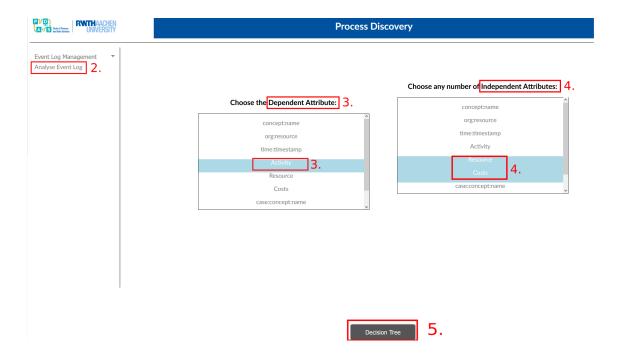
### 6 Filter Event Log

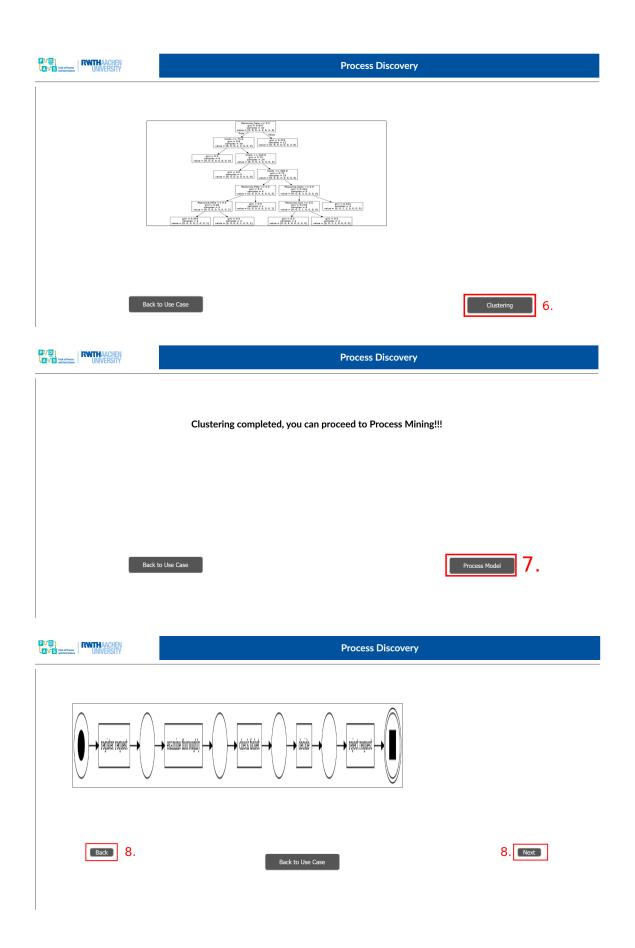
- 1. Select an event log of choice (see section 4) if not already set
- 2. Press Filter Event log listed under Event Log Management in the left corner.
- 3. Chose the filter option by pressing the filter of choice
- 4. Press **Filter Event Log**
- 5. The filtered event log can now be found in the  $\mathbf{Import}$   $\mathbf{File}$  section



## 7 Use Case Analyses

- 1. Select an event log of choice (see section 4) if not already set
- 2. Press Analyse Event Log
- 3. Choose the target variable by selection it under **Dependent Attribute**
- 4. Choose the feature variables by selection them under Independent Attributes
- 5. Press **Decision Tree**
- 6. You can now see the decision tree. Press Clustering to continue
- 7. To see the different process models press Process Model
- 8. Shuffle between the process models by press  ${\bf Back}$  or  ${\bf Next}$
- 9. The decision tree, the process model and the clusters can now all be found in the Import File section





# 8 Download Event Log

- 1. Press Import File listed under Event Log Management
- 2. Select the event log you want to download
- $3. \ {\bf Press} \ {\bf Download}$

