

Python Mailing Lists



Mailing Lists



Version Control
Systems



Bug Reporting
Systems

Email Messages

Proposal
Metadata

Data Reading Module

1. Extract messages
from Main mailing Lists,
Store in DBMS

Resolving
Proposals



MySQL Database

Extract Emails from six Main Forums For All
Proposals

Extract Emails exchanged during
Decision-making Stage

Data Selection

Extracting DM Substates

Automatic DM Concepts Extraction
Topic Modelling and Email Subject Analysis

Concept Matching Scheme
(Information Extraction)

3. Matching Identified Concepts for PEPs
Extracting Term-based Candidate Sentences &
Matching Triples

4. Post-Processing

Process Log

Proposal
DM concepts
Time stamp
SenderName

DM Process Model



Visualization
Decision-making process model
using DISCO

Data Extraction

Data Transformation

Process Mining