# EULAide: Ontology-driven Summarization and Visualization of Legal Documents

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# Motivation

End user license agreements (EULAs) appear when installing a software or signing up for a web service. They are legally binding and thus should be read with caution, but because of their length and jargon, majority of users have a habit of clicking "I agree" on these documents without reading them. Possible consequences include: Privacy compromise, security risk and legal action against user

### **GOAL**

Use ontology-based information extraction to faciliate a better understanding of EULAs.

# Approach

### Summarization

Show single terms and conditions in brief but comprehensible fashion

### Classification

Group single terms and conditions into three key classes: Permission, Duty and Prohibition

### Visualization

Provide understandable icons related to single terms and conditions

# Technology



**AngularJS** for front-end JavaScript



**Bootstrap** for front-end design



Jersey for RESTful Web Service



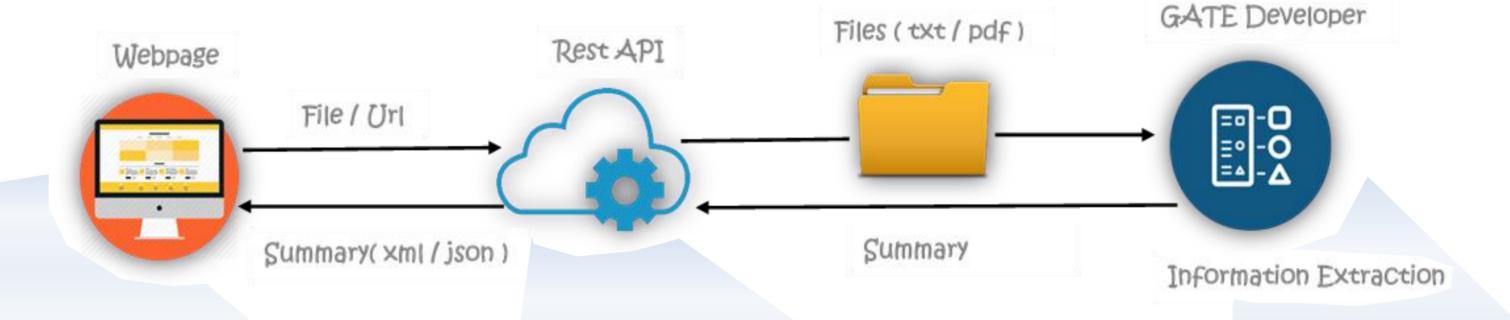
**GATE** for ontology-based information extraction





Jasmine & Postman for testing

# EULAide

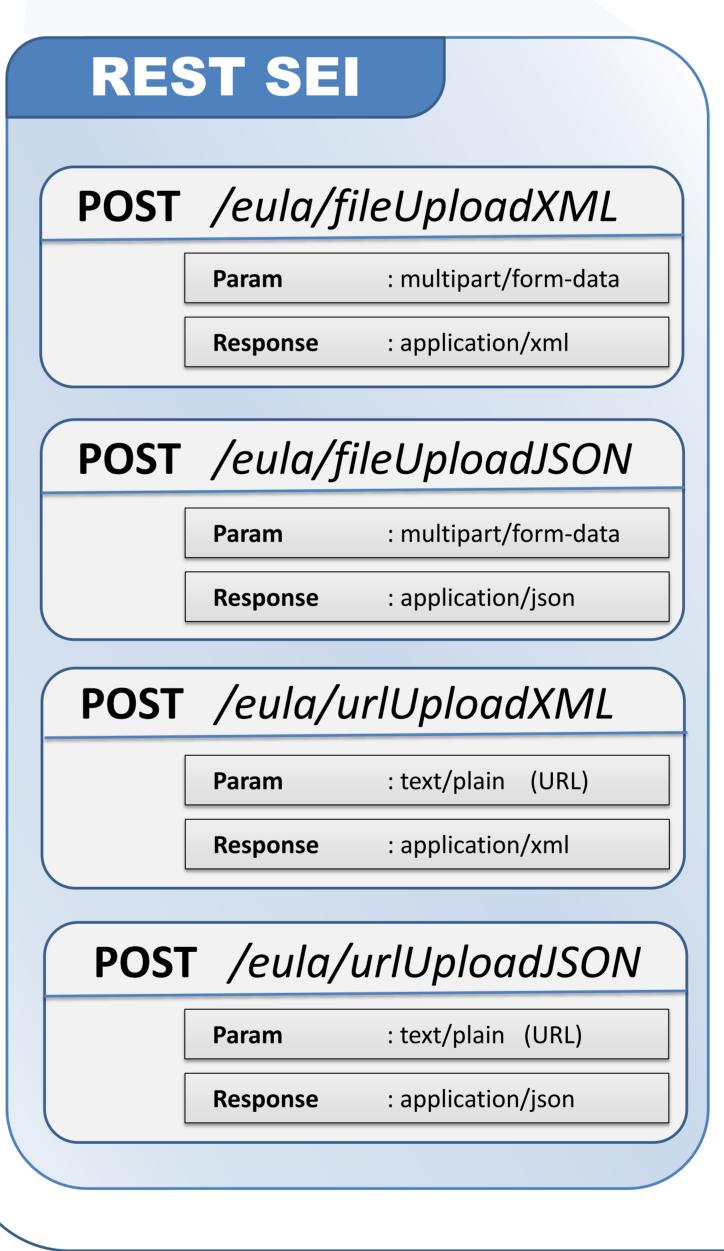


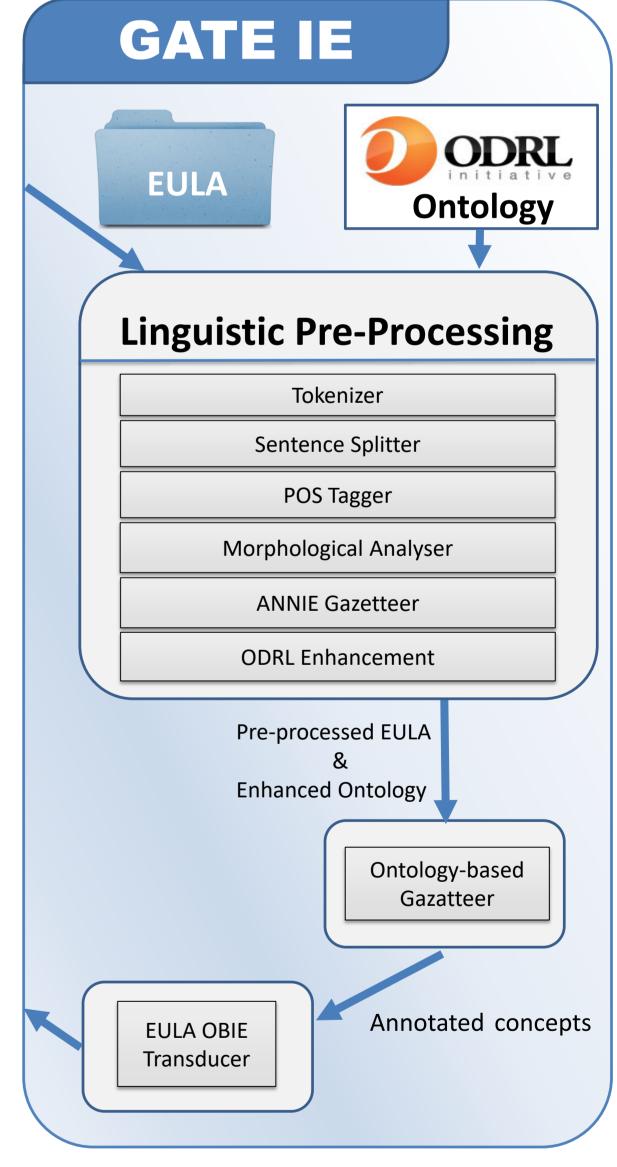
### **User Interface**

- Simple user interface offering two ways to upload EULAs (File, URL)
- Offering two ways to view summary: general user (with icons) and advanced user
- Showing input file status
- Option to view selected parts or whole summarized EULA

### **EUL**Aide Choose File Eclipse.txt Input: Eclipse.txt **URL** input General User Advanced User Duty Permission **Prohibition** Сору reproduce, prepare derivative works of, publicly Contributors may not remove or alter any copyright display, publicly perform, distribute and sublicense notices contained within the Program Elph the Contribution of such Contributor, if any, and such derivative works, in source code and object code

# **Back-end**





# **Future Work**

- Offering different customized ontologies to achieve good results in various legal areas
- Support of additional languages
- Developement of an app for the major mobile operating systems



## Workstation



# Hostname: vm-Windows16-EULA

**Software installed:** Installed on: EIS3 Eclipse Neon, Apache Tomcat 9, GATE 8.1

Local Access:
OS User: eis-user
Password: E1sUserEULA

Remote Access:

Partner ID: 273956668

Password: E1sUserEULA



