Protege API

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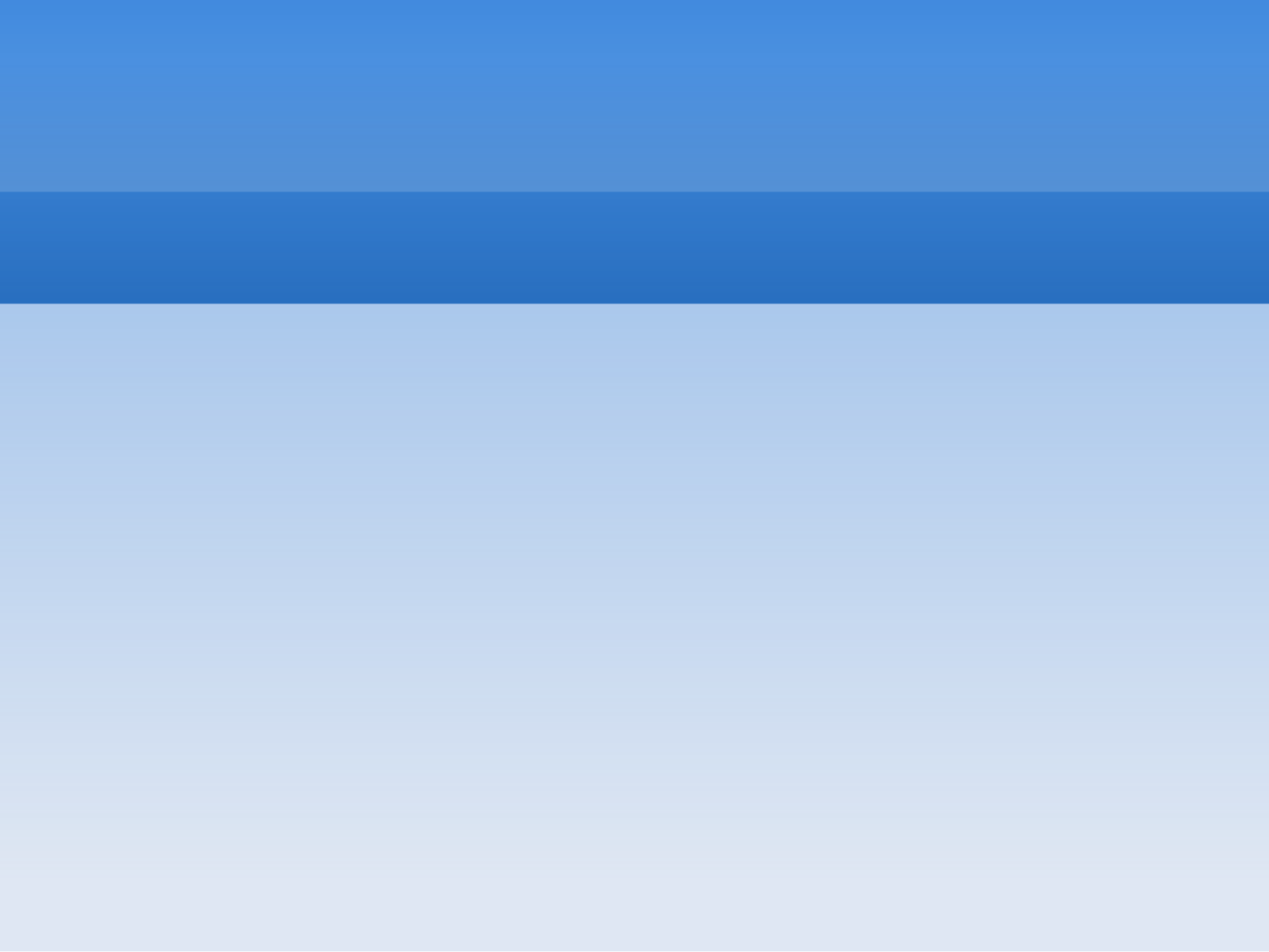- Disadvantages
- Comparison with other APIs
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•Description

- The Protégé-OWL API is an open-source Java library for the Web Ontology Language and RDF(S).

- The API provides classes and methods to load and save OWL files, to query and manipulate OWL data models, and to perform reasoning.

- Protégé ontology development platform can be extended by way of a plug-in architecture and Java-based Application Programming Interface (API) for building **knowledge-based tools and applications.**

Features

- Provided with the standard Protege installation.

- Has good compatibility with Protege.

- You can edit ontologies , access description logic DL reasoners.

- For example, we can create new classes and instances programmatically.

- Furthermore, the API is optimized for the implementation of graphical user interfaces.

- Like other Java APIs, the libraries are needed to be imported in the source code of the application.

- The Protege OWL API seems to sit on top of JENA API however it uses Jena only for parsing and provides a Jena view.

- By basing the OWL Plugin on top of Protege, we could also reuse Protege's client-server based multi-user mode that allows multiple people to edit the same ontology at the same time .

Resources

- http://protege.stanford.edu/plugins/owl/api/

- http://wiki.unik.no/index.php/Courses/4710JavaCommunity

- "The Protege OWL Plugin:An Open Development Environment   for Semantic Web Applications",Holger Knublauch, Ray W. Fergerson, Natalya F. Noy, and Mark A. Musen