

EU-IST Project IST-2003-506826 SEKT
SEKT: Semantically Enabled Knowledge Technologies



Annex A to D 10.3.1 Prototype
Prototype Distribution

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Abstract

At this document we describe where is available the legal case study prototype, and other issues related with the operating systems and how to run it. Finally, we describe the license information.

Keyword list: legal case study, distribution

WP10 Case study: Intelligent integrated decision support for legal professionals.

Prototype CO

Contractual date of delivery: 31/12/2005

Actual date of delivery: 27/03/2006

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This document is part of a research project partially funded by the IST Programme of the Commission of the European Communities as project number IST-2003-506826.

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1 Legal Case Study Prototype Distribution

1.1 Location

The *Legal Case Study Prototype* is a web application that can be downloaded from <http://sekt.isoco.com/WP10/prototype/sekt-lcs-prototype.zip>. Login and password is required (login: *sekt*, password: *dwld4t4*).

1.2 Required operating system and environment

The current version of *Legal Case Study Prototype* requires the next hardware and software platform:

1. PC Intel® Pentium® processor.
2. Microsoft® Windows XP Professional. Version 2002. Service Pack 2.
3. 1 GB of RAM min, 2 GB or greater recommended.
4. Up to 150 MB of available hard-disk space.
5. Microsoft Internet Explorer 6.0 or higher or Netscape 7.1 or 8.0, Firefox 1.0 or Mozilla 1.7.
6. Java 2 Platform Standard Edition 5.0 for Windows.
(<http://java.sun.com/j2se/1.5.0/download.jsp>).
7. MySQL 4.1 for Windows.
(<http://dev.mysql.com/downloads/mysql/4.1.html>).
8. Resin 2.1.13 for Windows.
(<http://www.caucho.com/download/resin-2.1.13.zip>).
9. Python 2.4 for Windows.
(<http://www.python.org/ftp/python/2.4.2/python-2.4.2.msi>).

1.3 Installation

The steps to install the prototype are:

1. Install PC with Microsoft® Windows XP Professional. Version 2002. Service Pack 2, or validate the software version.
2. Install Java 2 Platform Standard Edition 5.0.
3. Install Resin 2.1.13 and configure it to work with Java 2 Platform Standard Edition 5.0.
4. Install Python 2.4.
5. Install MySQL 4.1.
6. Install the prototype web application:
 - a. Install prototype DLL files.
 - b. Create a data base and prototype schema.
 - c. Install prototype WAR file in Resin.

1.3.1 Distribution file content

The distribution contents are:

- `README.txt`: File with a short description of the prototype features. It includes changes between releases.
- `iuriservices.war`: Web application release archive.
- `legal_case_study-prototype-dump.sql`. Dump file of prototype data base.
- `System32`: Directory with all DLL files, required by the prototype.

1.3.2 *Prototype web application installation*

The steps in web application installation prototype are:

1. Copy DLL files from `System32` directory of distribution to `System32` directory of Windows.
2. Creates the legal case prototype data base, executing `legal_case_study-prototype-dump.sql` in a MySQL root console.
3. Modify `Resin start` and adds the parameter `-Xmx1024M`. (<http://www.caucho.com/resin-3.0/install/cse-iis.xtp#Command-line-arguments>)
4. Copy war file in `Resin webapps` directory.
5. Start resin.

You can validate the success of installation opening a navigator and accessing to URL <http://localhost:resin-port/iuriservices/>.

1.4 Starting guide

You can access to the home page of Legal Case Study Prototype (Figure 1.1) in URL <http://localhost:resin-port/iuriservices/>.

The prototype offers three main functionalities, in the menu of this page:

1. Query the FAQ repository with a NLP question.
2. Browse FAQ repository.
3. Legal Case Study Prototype Help.

You can access for the different functionalities pressing on the related links stood out in Figure 1.1.

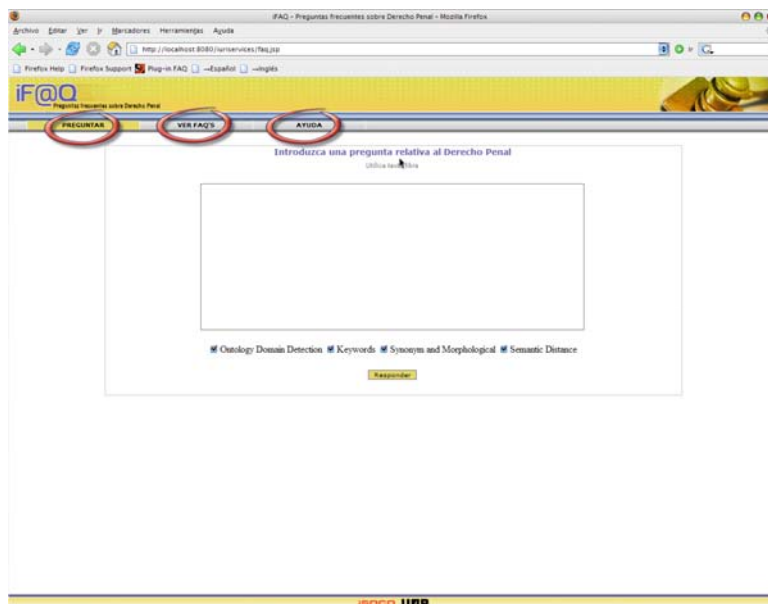


Figure 1.1: Home page

1.4.1 Query the FAQ repository with a NLP question.

Selecting option one of Figure 1.1, user can ask in natural language. Figure 1.2 shows the page, where user introduces his natural language question. In this query, the user can select technology to apply in the searching: ontology domain detection technology, keywords technology (only keywords), NLP information and synonyms technology and ontology technology (semantic distance).

After user makes a question, the system can answer with two possible options:

- With a page that indicates no matching (Figure 1.3) and allows to incorporate the new question in the FAQ repository.
- Showing the best FAQ, that matches with the user question (Figure 1.4).

When system finds a list of FAQs, it shows the FAQ with best match and allows a set of related actions (actions that we show in Figure 1.4):

1. Shows the user question, emphasizing the relevant words that match with relevant words of the FAQ.
2. Shows the matching level between user question and FAQ question, with a star legend.
3. Shows FAQ question, emphasizing the relevant words that match with relevant words of the user question.
4. Shows the matching between user and FAQ question. Matching is a list of ontology concepts of user and FAQ question; those are related in the ontology.
5. Shows FAQ response.
6. If there are others related FAQs, shows a button to access the list (Figure 1.5), that shows FAQ question and it allows accessing to FAQ response (Figure 1.6).
7. It allows the user to expose its satisfaction with the answer. Figure 1.7 shows the response page, when the user exposes its opinion.

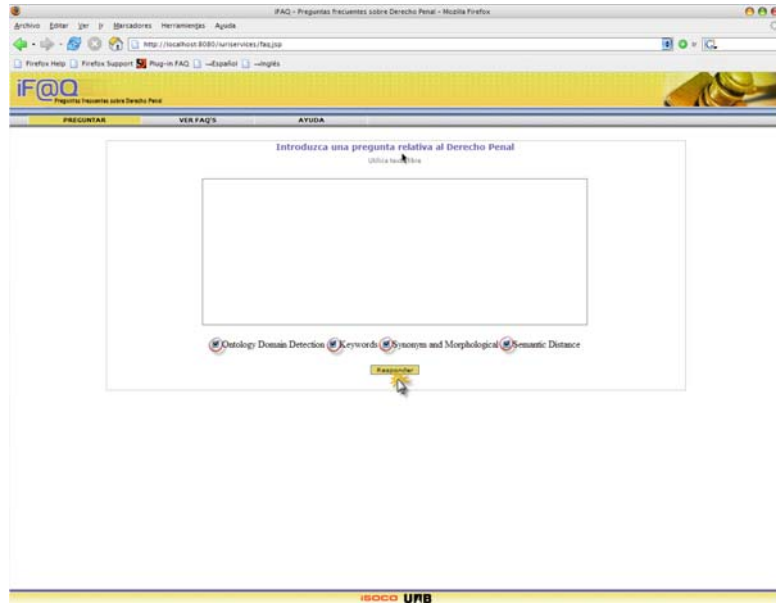


Figure 1.2: Query page

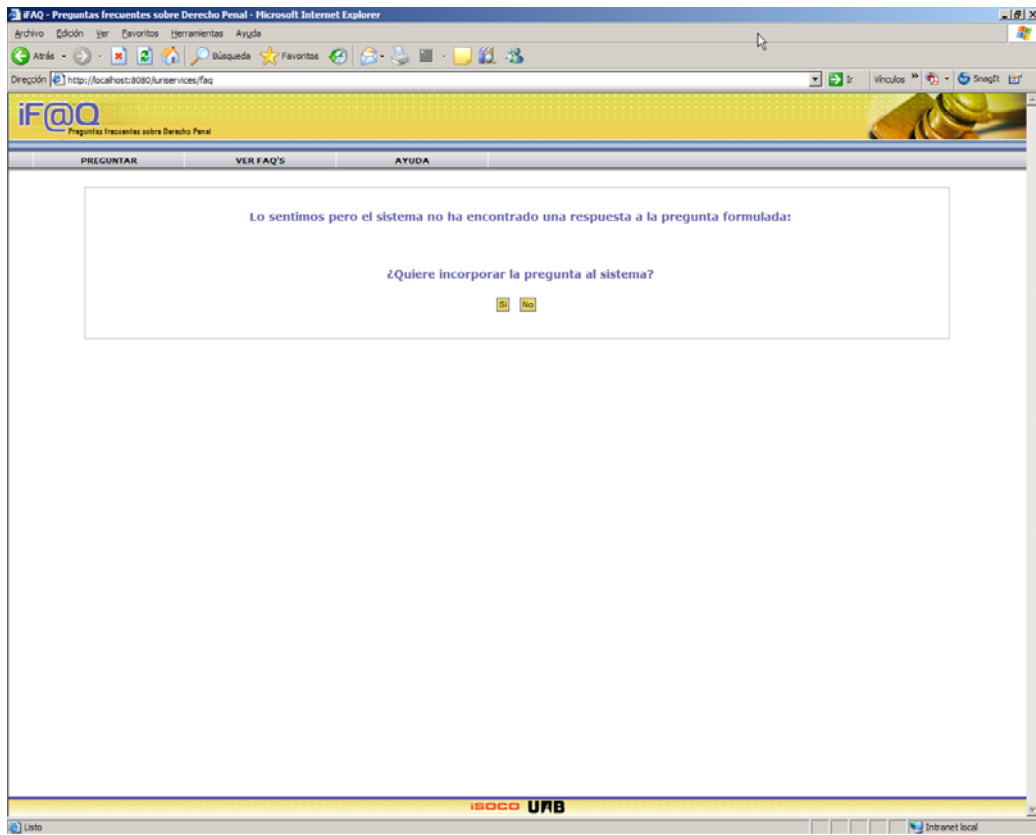


Figure 1.3: No matching page

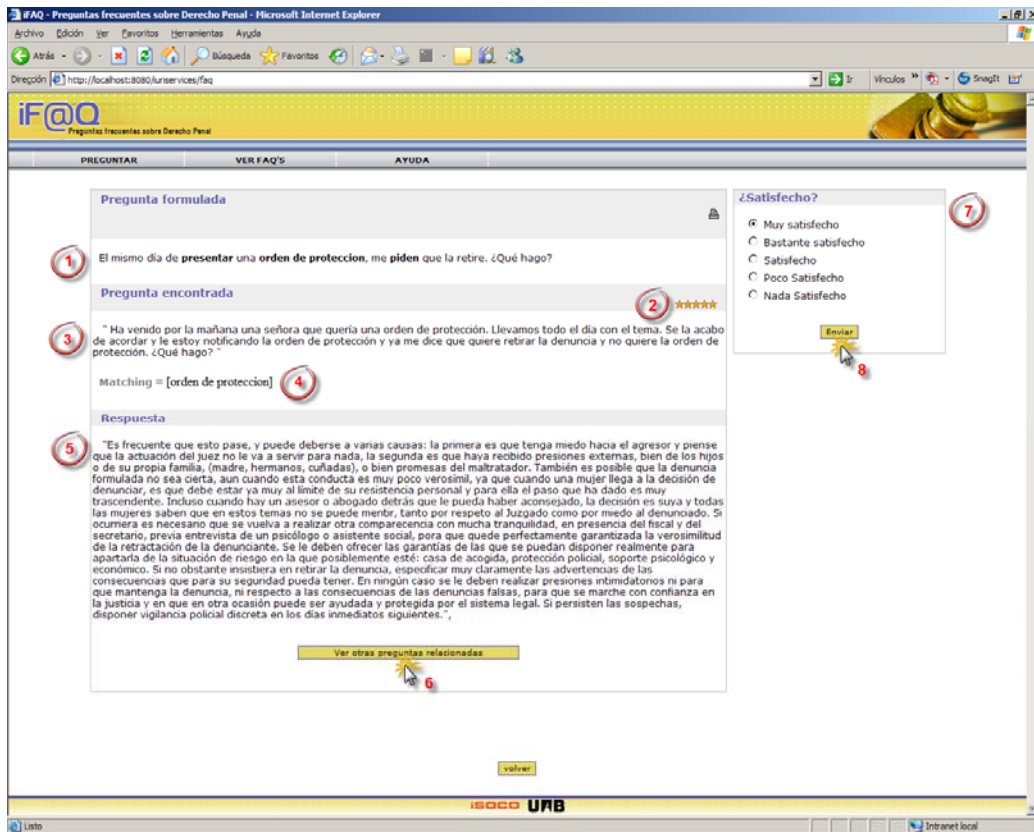


Figure 1.4: Query result page

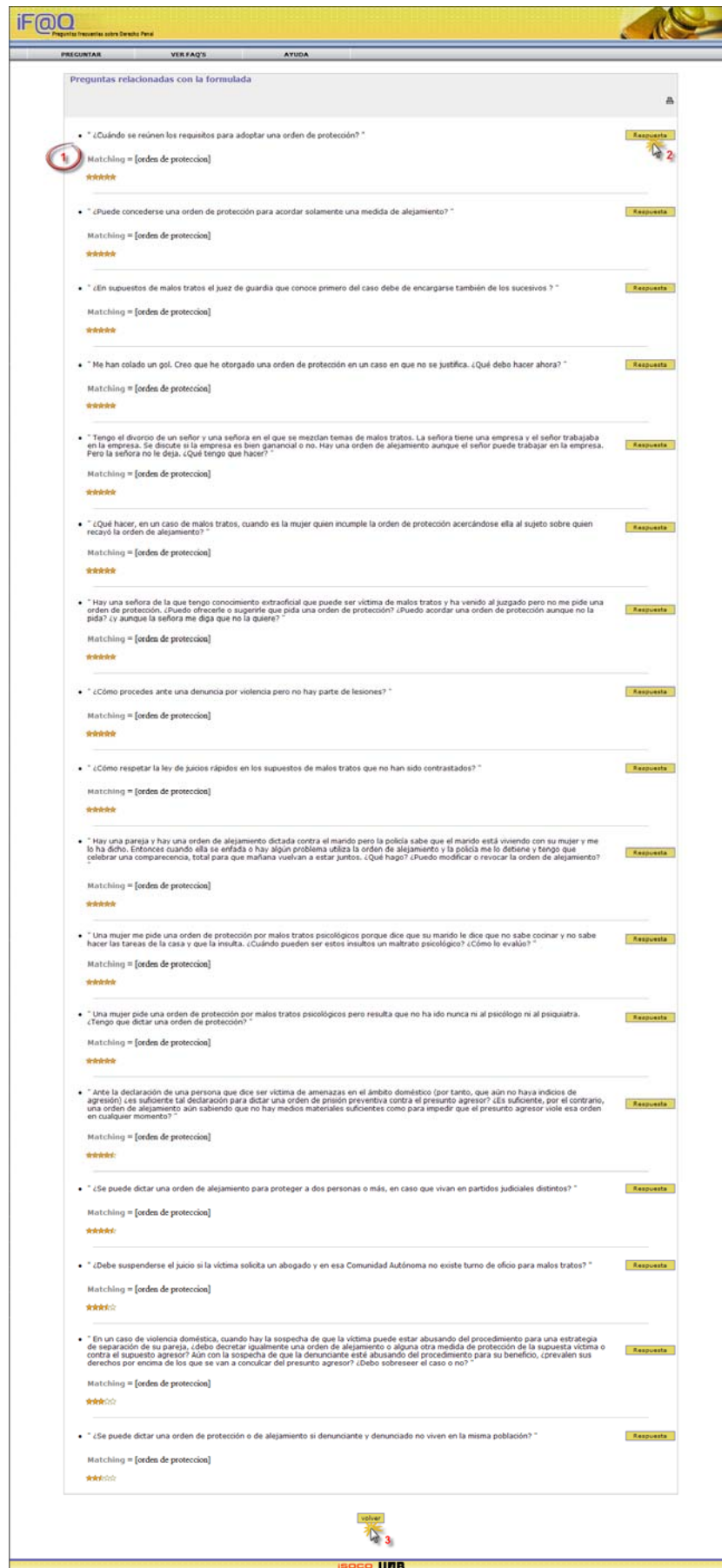


Figure 1.5: Related FAQs page

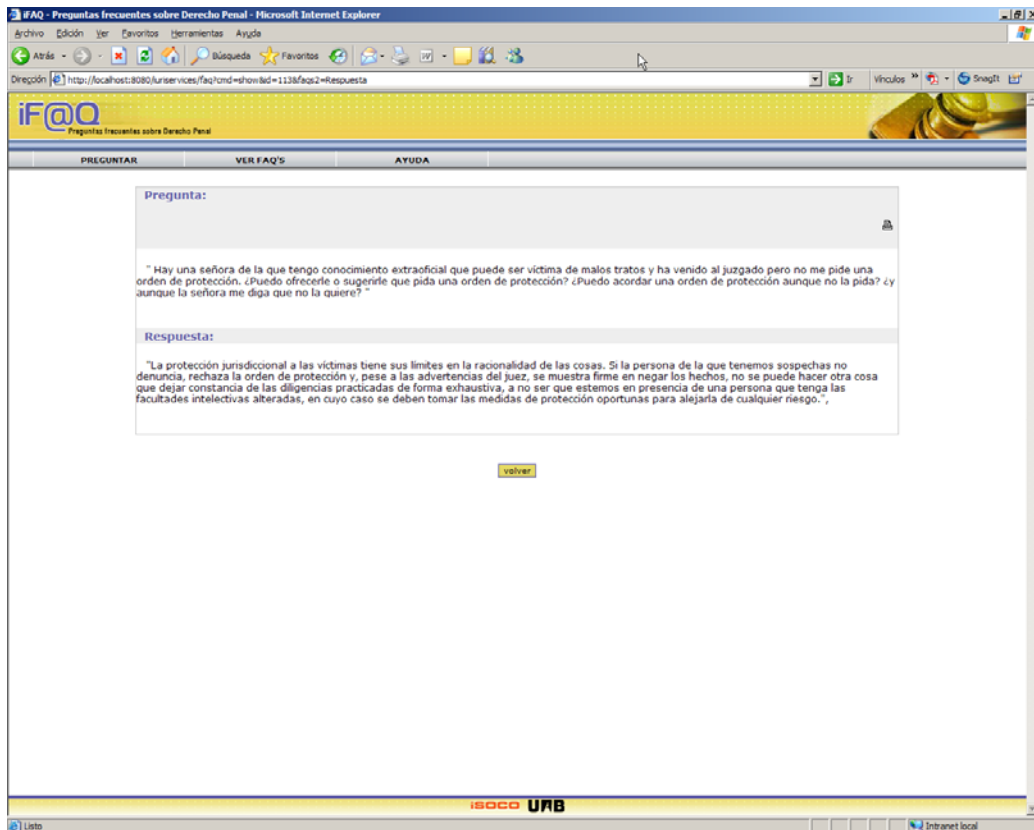


Figure 1.6: Related FAQ detail page

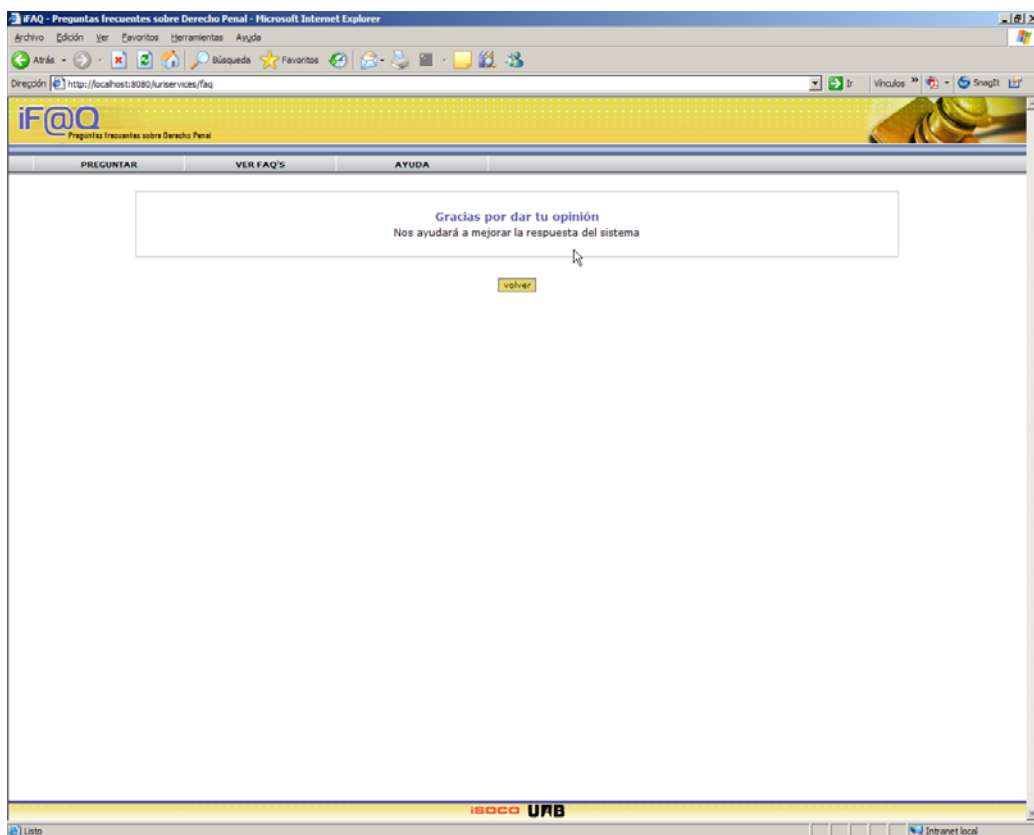


Figure 1.7: Gratefulness page

1.4.2 Browse FAQ repository.

The second functionality, that iFAQ System allows it, is a listing of registered FAQs, ordering by their domain. Figure 1.8 shows the report, that iFAQ generates it, when user selects second option of the main menu.

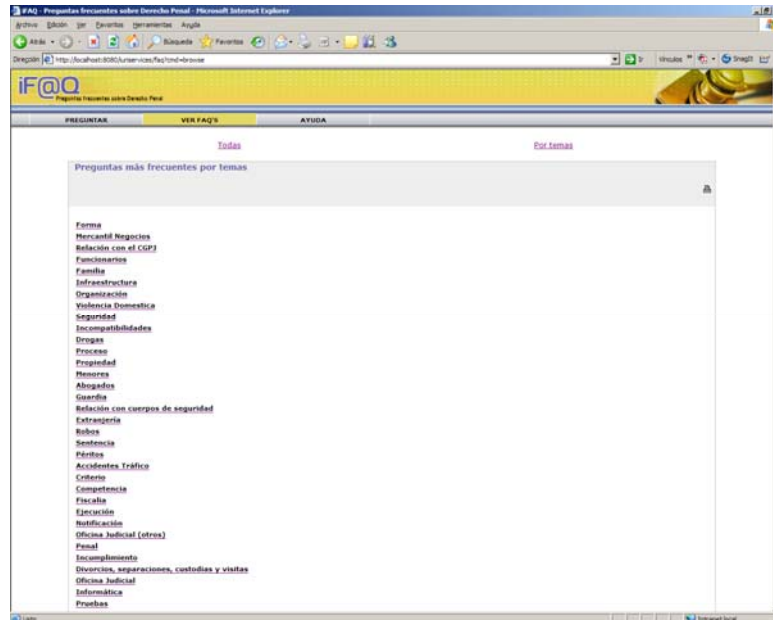


Figure 1.8: Browse FAQ repository page

1.4.3 Legal Case Study Prototype Help.

Figure 1.9 shows the help page, that system generated, when user selects third option of the main menu.

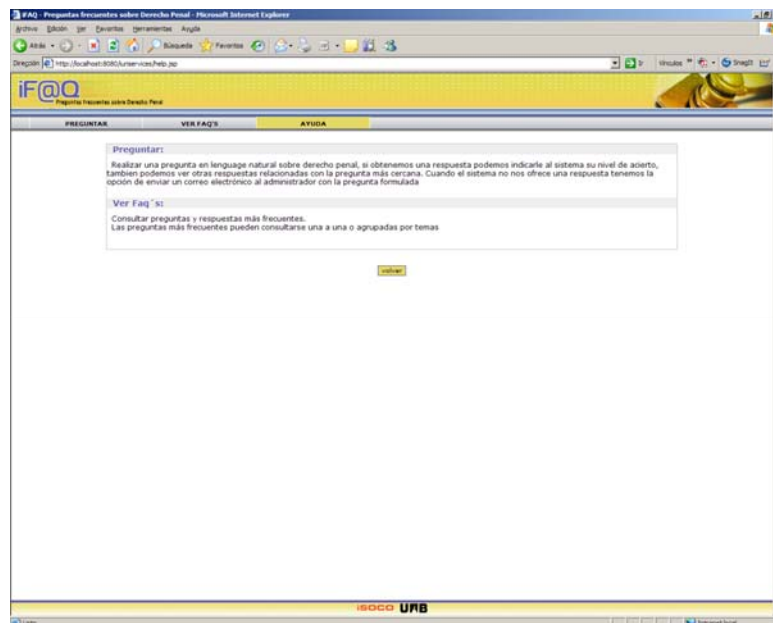


Figure 1.9: Help page

1.5 License information

A commercial license will be adopted, but it's being decided at the end of SEKT project. Unless otherwise noted, the following copyright statement applies:

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