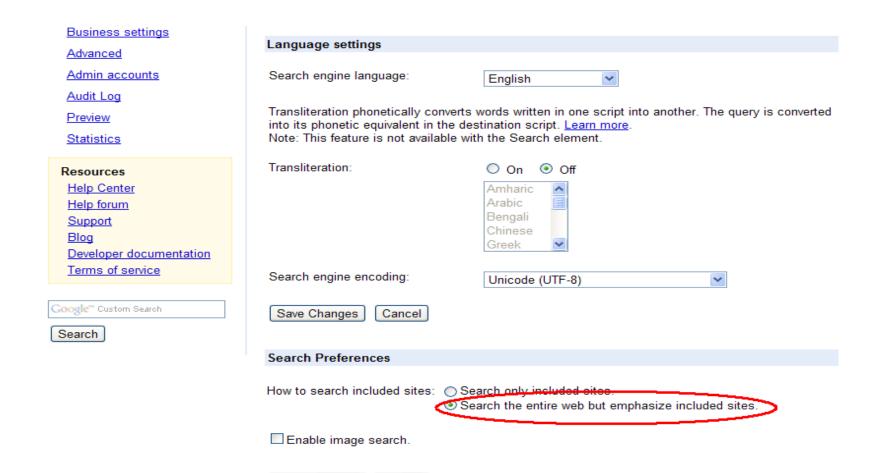# Assignment 5

General

- Purpose: Build an application allowing users to search for information using different search engines
- Total score: 80 points
- Objectives
  - To get familiar with web services
  - To get familiar with AspectJ
- Due: 5/1/2012
- Evaluation method: demonstration
- Team work: team of two students

Search Engines

- Bing: http://www.bing.com/toolbox/bingdeveloper/
- Google Custom Search: http://code.google.com/apis/customsearch/docs/dev_guide.html
  - Use REST service
  - Create a custom search engine
  - Provide an arbitrary URL when registering
    - Choose "Search the entire web but emphasize included sites" to search entire web

Google Custom Search

Business settings

Advanced

Admin accounts

Audit Log

Preview

Statistics

Resources
Help Center
Help forum
Support
Blog
Developer documentation
Terms of service

Google™ Custom Search

Search

Language settings

Search engine language: English

Transliteration phonetically converts words written in one script into another. The query is converted into its phonetic equivalent in the destination script. Learn more.
Note: This feature is not available with the Search element.

Transliteration: ○ On   ◉ Off

Amharic
Arabic
Bengali
Chinese
Greek

Search engine encoding: Unicode (UTF-8)

Save Changes   Cancel

Search Preferences

How to search included sites: ○ Search only included sites.
                                ◉ Search the entire web but emphasize included sites.

☐ Enable image search.

Save Changes   Cancel

Requirements

- A web application
- Web server: Apache, recommended
- Language: Java, recommended
- Environment: your computer

Requirements

- Functional requirements
  - Users shall search results on web by entering a query
  - Users shall view a list of search results
  - Users shall click on a result to see detail
  - Each search result should include
    - Title, link, description, source (from which search engine)
- Non-functional requirements
  - Log all exceptions and user requests using Aspects
  - Number of actions performed should be minimized
  - Web page should be simple and easy to use
  - Different elements in search results should be colored to easy to view
  - Ads should be eliminated
  - Duplicates must be eliminated

Extra credit

- Use Google Translate API to translate all titles into Vietnamese
- Credit: 2% out of total 10% extra credit