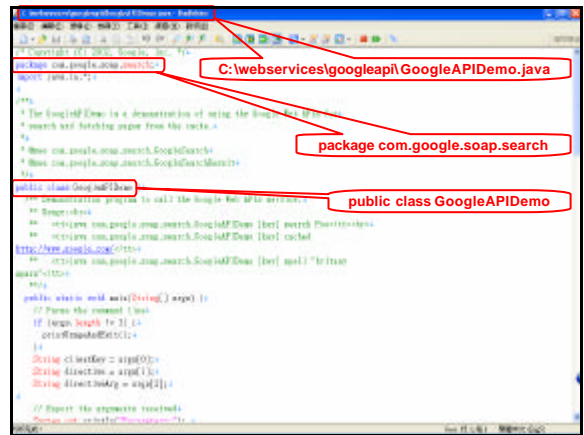
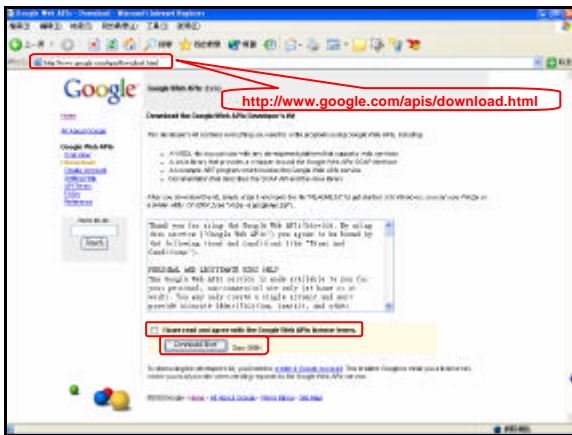


- ### Outline
- Install API of Google Web Services
    - Google AIP Demo
  - Install Apache HTTP Server
  - Install Apache Tomcat
    - Hello world JSP Demo
  - MyGoogle Demo
  - Some Ideas of WS using Google



```

C:\weberservices\googleapi>
C:\weberservices\googleapi> dir
2003/04/28 下午 10:37 <DIR>
2003/04/28 下午 10:37 <DIR>
2003/04/28 下午 12:44 89,265 api_Reference.html
2003/04/28 下午 08:56 <DIR> dotnet
2002/08/30 下午 12:44 624,236 googleapi.jar
2002/08/30 下午 12:44 7,906 googlePIDemo.java
2002/08/30 下午 12:44 7,054 googleOverch.wadl
2003/04/28 下午 08:56 <DIR> javadoc
2002/08/30 下午 12:44 7,727 LICENSE.txt
2003/04/28 下午 08:56 <DIR> licenses
2002/08/30 下午 12:44 7,582 README.txt
2003/04/28 下午 08:56 <DIR> soap-samples
2002/08/30 下午 08:56 739,410 位元组
6 個檔案 1,190,219,776 位元組可用

C:\weberservices\googleapi> javac -classpath googleapi.jar -d GooglePIDemo.java
C:\weberservices\googleapi>
C:\weberservices\googleapi> dir
2003/04/29 上午 12:32 <DIR>
2003/04/29 上午 12:32 <DIR>
2002/08/30 下午 12:44 89,265 api_Reference.html
2002/08/30 下午 12:44 <DIR> com
2003/04/28 下午 08:56 <DIR> dotnet
2002/08/30 下午 12:44 624,236 googleapi.jar
2002/08/30 下午 12:44 2,906 GooglePIDemo.java

```

```

C:\weberservices\googleapi> java -classpath googleapi.jar com.google.soap.search.GooglePIDemo
cached http://www.999.com.cn/professional/medicine/special/fy/ > tmp.htm

C:\weberservices\googleapi>
java -classpath googleapi.jar
com.google.soap.search.GoogleAPIDemo key cached
http://www.999.com.cn/professional/medicine/special/fy/ > tmp.htm

```

```

C:\weberservices\googleapi> java -classpath googleapi.jar com.google.soap.search.GooglePIDemo
search 非典型肺炎

Parameter:
Client key = com.google.soap.search.GoogleAPIDemo
Directive = search
Args = 非典型肺炎
Google Search Results:
=====
{
  TM = 0.05115
  Q = "非典型肺炎"
  CT = ""
  RT = ""
  CRTs =
  (
    <EMPTY>
  )
  Start Index = 1
  End Index = 10
  Estimated Total Results Number = 74160
  Document Filtering = true
  Estimate Correct = false
  No =
  (
    URL = "http://www.999.com.cn/professional/medicine/special/fy/"
    Title = "非典型肺炎的预防和治疗-非典型肺炎-非典型肺炎"
    Snippet = "<b>非典型肺炎</b>非典型肺炎<b>非典型肺炎</b>非典型肺炎<b>非典型肺炎</b>非典型肺炎"
    Directory Category = "SE", PUN"
    Directory Title = ""
    Summary = ""
    Cached Size = "20k"
    Related information present = true
    Root Name = ""
  )
}

```



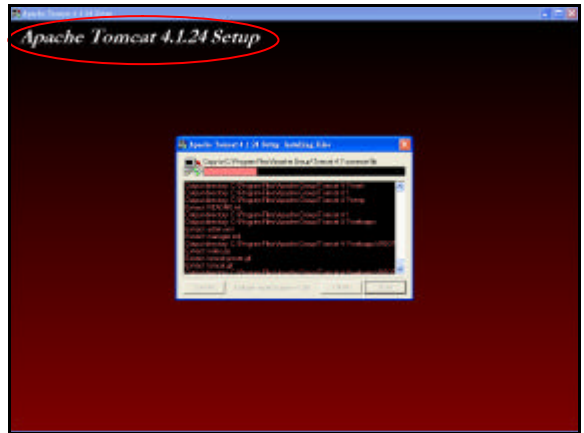
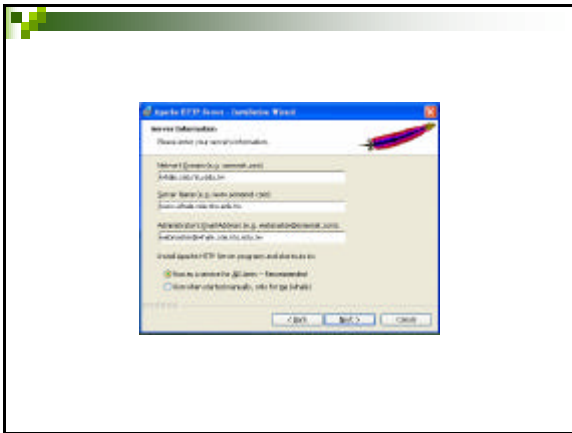
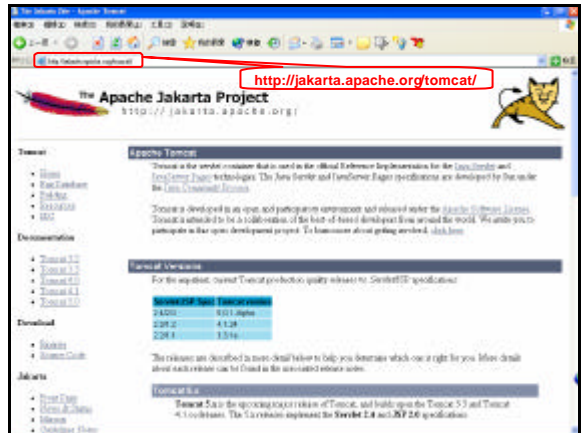
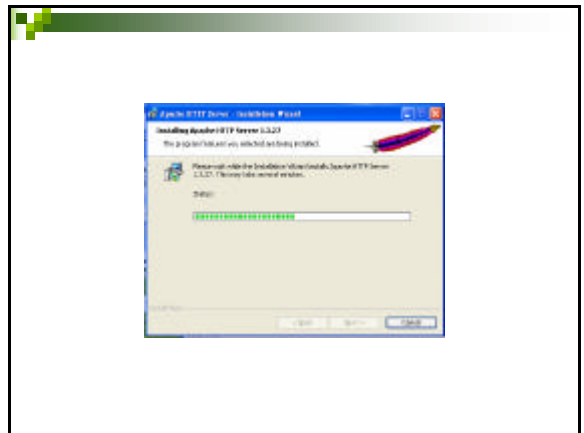
```

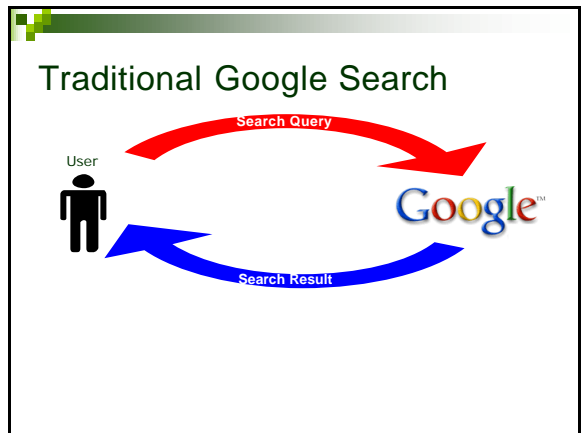
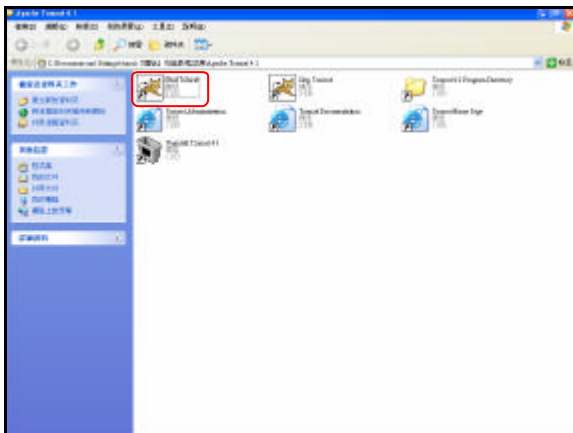
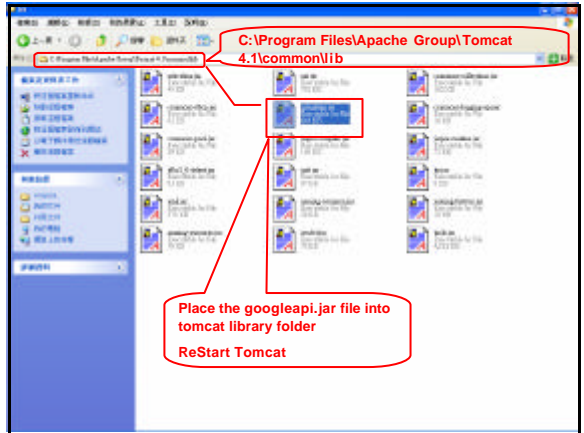
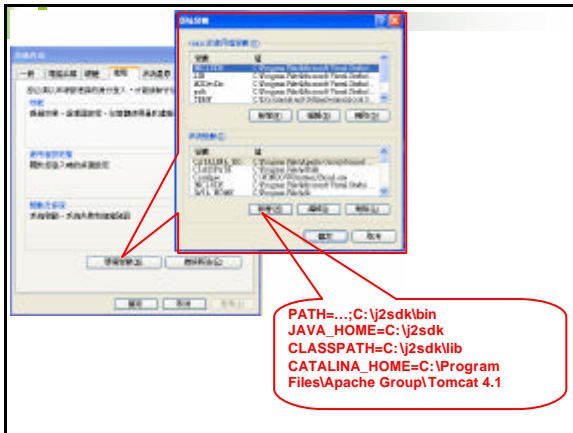
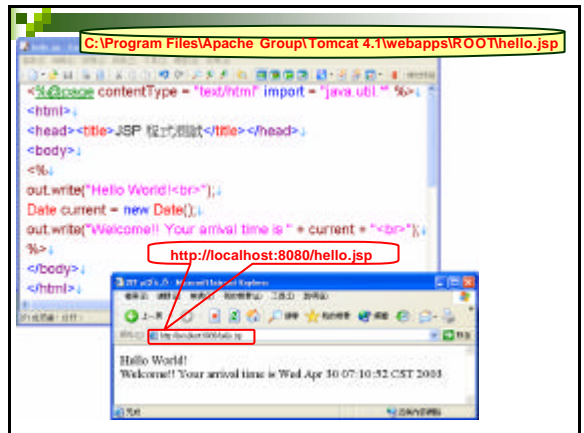
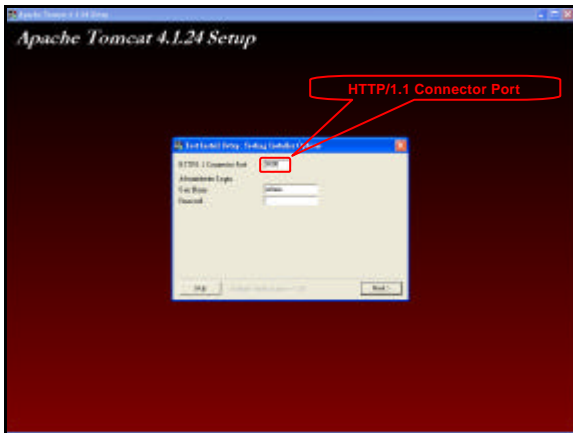
C:\weberservices\googleapi> java -classpath googleapi.jar com.google.soap.search.GooglePIDemo
spell application

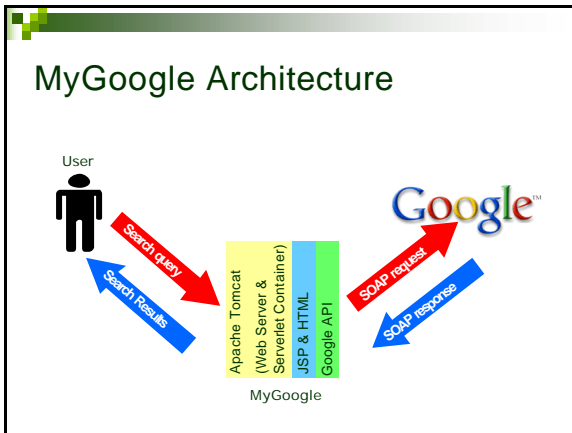
Parameter:
Client key = com.google.soap.search.GoogleAPIDemo
Directive = spell
Args = application
Spelling suggestion:
application

C:\weberservices\googleapi>
Spelling suggestion: application

```

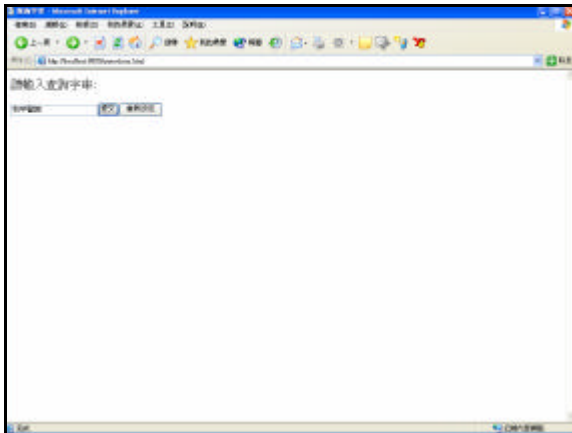




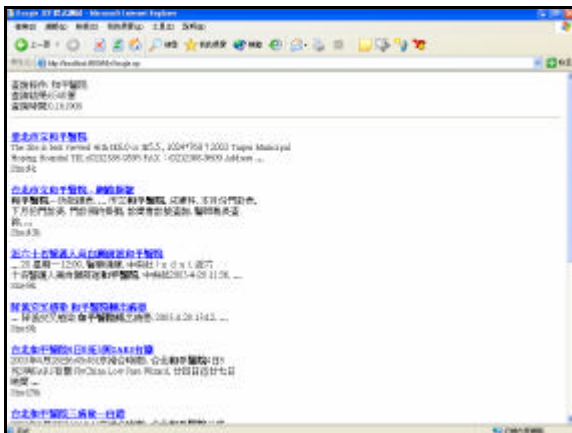


```
<%@ page contentType = "text/html; charset=Big5" %>
<%@ page import="com.google.soap.search.*" %>
<meta HTTP-EQUIV="content-type" CONTENT="text/html; charset=UTF-8">
<html>
<head><title>Google JSP 程式測試</title></head>
<body>
<%
    int i, recNumber;
    String queryKey;
    GoogleSearchResultElement[] details;

    request.setCharacterEncoding("UTF-8");
    queryKey = request.getParameter("query");
    out.write("查詢條件: " + queryKey + "<br>\n");
    GoogleSearch search = new GoogleSearch();
    search.setKey("xxxxxxxxxxxxxxxxxxxxxxxxxxxx");
    search.setQueryString(queryKey);
    search.setSafeSearch(true);
```



```
    GoogleSearchResult result = search.doSearch();
    recNumber = result.getEstimatedTotalResultsCount();
    if ((result != null) && (recNumber != 0)) {
        out.write("查詢結果:" + recNumber + "筆<br>\n");
        out.write("查詢時間:" + result.getSearchTime() + "<br>\n");
        details = result.getResultElements();
        for(i=0; i < details.length; i++) {
            out.write("<p><b><a href=" + details[i].getURL() + ">" + details[i].getTitle() +
"</a></b><br>\n");
            out.write(details[i].getSnippet() + "<br>\n");
            out.write("Size:" + details[i].getCacheSize() + "</p>\n");
        }
    }
    else {
        out.write("查詢不到相符的資料<br>\n");
    }
}
catch (GoogleSearchFault ex) {
    out.write("查詢失敗:" + ex.toString());
}
%>
</body>
</html>
```



- ## Some Ideas of WS using Google
- Metasearch
  - Off-Line Browsers

## Metasearch Tools

- Metasearch tools allows the user to submit the same query to several search engines at the same time.

## Off-Line Browsers

- Off-line browsers check web pages on pre-selected topics and download anything new to your computer.