

DEPLOYMENT DOCUMENT

The phonetics search is written to be compatible with Apache Tomcat Server and Microsoft Access Database. As such, it will be relatively straight forward to set up by any layman who has basic internet knowledge.

The steps for installing the phonetic search are as follows.

1.0 Overview Of Deliverables:

The deliverables for the Phonetics Search project is of just three files.

The first file is called **Action**. It consists of JSP file, Java Script files and also some static html pages. This file conforms to the Java Web Application Archive format, which is and contains all of the code and resources that reside on the application server.

The second file is called **db**. It contains the database and also the servlet pages. This file confirms the database connectivity and also the required database checks.

The third file is called **WEB_INF**. It contains the Classes folder which in turn contains all the class files required to run the servlets. These classes are pre-compiled and placed here. These also contain various classes of algorithms written.

2.0 Installation and Configuration Of Database Software:

A Microsoft Access Database should be selected for storing all the persistent data used by the system. Microsoft Access 2007 was used during development and testing of this project. But it should be possible by design to substitute other database versions. Installation and administration of Microsoft Access is very easy, as it can be directly downloaded from the Microsoft's official website.

Once the MS Access has been selected and installed, a database should be created to store all of the persistent data. Since the database will eventually contain a lot of sensitive personal data about individuals, it is important to locate this database on a secure network, where unauthorized connections originating from the application server is restricted.

3.0 Installation Of The Apache TomCat Server :

It requires to install JAVA SDK before installing Apache Tomcat server. It can be downloaded from SUN's official website for free and installed.

Once the JAVA SDK has been installed, Apache Tomcat Server can be downloaded. During development and testing jdk1.6.0_20 & apache-tomcat-5.5.17 were used. Copy the downloaded Apache-Tomcat folder inside the drive containing operating system (C: usually).

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Next step is to setup environmental variables. Set the following in environmental variables (System properties → Environmental Variables)

```
set PATH="C:\Program Files\Java\jdk1.6.0_20\bin";%PATH%
set JAVA_HOME=C:\Program Files\Java\jdk1.6.0_20
set CLASSPATH=.;C:\apache-tomcat-5.5.17\common\lib\servlet-api.jar;C:\apache-tomcat-5.5.17\common\lib\jsp-api.jar;C:\Servlets+JSP;..\..\..
```

Now the Tomcat server will be ready for action. To test the server, type <http://localhost:8080> in the browser after starting the TomCat server by clicking startup.bat file (C:\apache-tomcat-5.5.17\bin\startup.bat).

Copy the complete “code” package(Which contains the phonetics source code) and paste it inside “web-apps” folder. (C:\apache-tomcat-5.5.17\web apps)

4.0 Connecting the DataBase & Server:

It requires to connect database and the Apache TomCat server. This can be obtained as follows.

1. goto : control panel->administrative tools->Data Sources(ODBC)
2. Select "User DSN" tab
- 3.click "add" and include "Dirver do microsoft access(*mdb)"
- 4.click finish and select "system DSN"
- 5.A new window will appear. Give data source name as “Inaut”
6. Click select and choose the database file - “phoneti9cs.mdb”.
- 7.Source path to be selected is - c:/apachetomcat5.5.17/web-apps/code/phonetics.mdb

5.0 Start & Test :

The application server is now ready to be started. With Tomcat, this is performed with a script called startup.sh or startup.bat. Using a web browser, navigate to <http://localhost:port/code/action/try.jsp> and begin testing the system.