The file consists of 6 programs.

1)Fileserver.java

2)TextDemo.java

3)MultithreadedchatClient.java

4)ClientConnection.java

5)ServerDemo.java

6)Thesarus.sql(it is the database should be put in the localhost by using xampp)

* First, we need to run the Fileserver.java and then Textdemo.java. The server starts when we run the fileserver.java and the client process with the GUI runs with the TextDemo.java.
* The GUI shows a block of text in the textarea and will result the synonym of selected word in the textfield. If a word selected does not exist in the database then it returns “not there”.
* To see all the client requests run serverdemo.java.
* The server is multithreaded and can be run on multiple clients by creating another instance of client.
* Comments and headers are mentioned clearly in the code.

TEST DATA::

Make- create, originate, invent, beget, form

Book- dairy, account

Use-employ, utilize, exhaust, spend

Do-execute, accomplish, achieve, attain

Show- isplay, exhibit, present

Mark-label, tag, price, ticket

Begin- start, open, launch

LIMITATIONS:

Maximum number of clients is 10.

REFERENCES:

1)The basic layout of the GUI is based on the oracle official tutorial. So, the citation of the website is below.

<https://docs.oracle.com/javase/tutorial/uiswing/components/textfield.html>

<https://stackoverflow.com/questions/10462725/actionlistener-for-a-specific-text-inside-a-jtextarea>