

## **README**

### **User Guide**

#### **Project Description**

ChatVader is a computer program with the characteristics of Darth Vader, designed to simulate conversation with human via textual method. The chat agent will act as this specific character and will answer to the users' questions like what Darth Vader would answer. Our team did a research on what are the most common questions asked to Darth Vader. We integrated these questions into the chat agent and give specific answer when the user asks questions such as "How do you go to the bathroom?" or "Where do you live?" This program is created for the purpose of entertainment. You can find out more about our project here: <https://github.com/Pocckey/HashTagYoloSwag/tree/Matt>.

#### **Requirements**

You would need:

- A computer
- Internet connection

#### **Implementations**

This program has successfully implemented the following API:

- Facebook (pt 10)
- Twitter (pt 10)
- Dropbox (pt 10)
- Wolfram (pt 10)
- Bing Translator (pt 10)
- IOYasha (pt 3)

## How to compile ChatVader

To run and compile ChatVader, users must download Java IDE (Integrated Development Environment). The program itself was written using Eclipse.

This guide will show step-by-step instructions on how to run and compile the program using **Eclipse IDE**.

**1)** Download Java IDE. There are several kinds of IDE available for PC and Mac users such as Eclipse, Netbeans, IntelliJ, JDeveloper, DrJava, and many more.

<https://www.eclipse.org/downloads/>

**2)** Then download the ChatVader files from my Github Repository.

**3)** Then open your java IDE.

**4)**

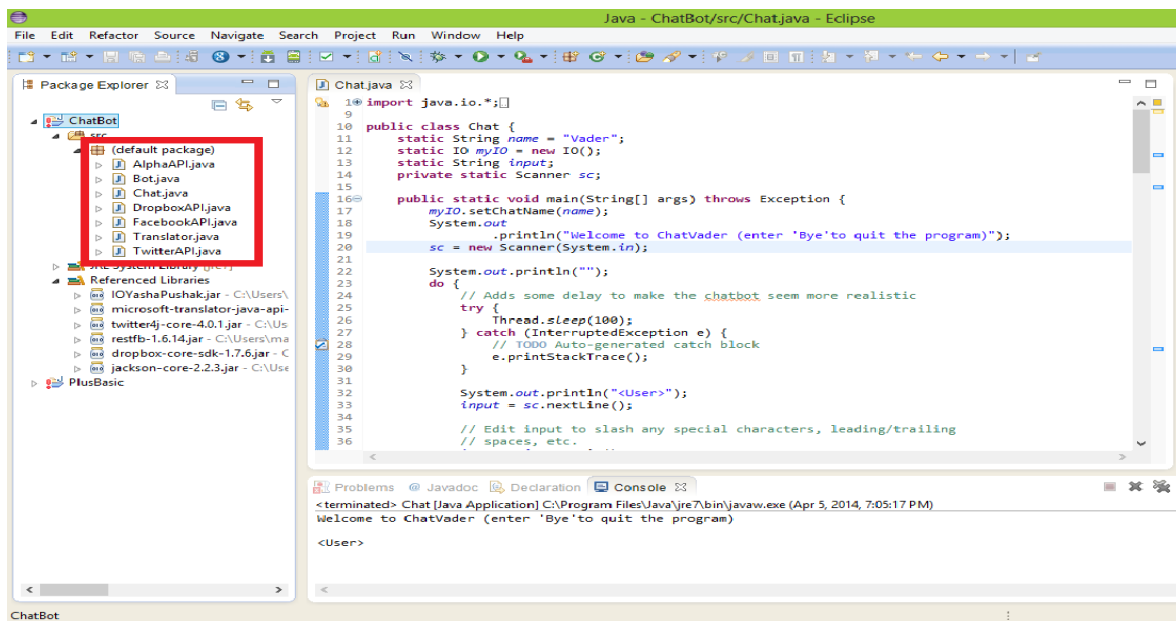


Figure 4.1 create a new project and include all java files in there as shown in the red box

We will first start by opening up the Java IDE. Then we will include all java files and add jar files.

Follow the figures below carefully. It will guide you through adding java files and jar files.

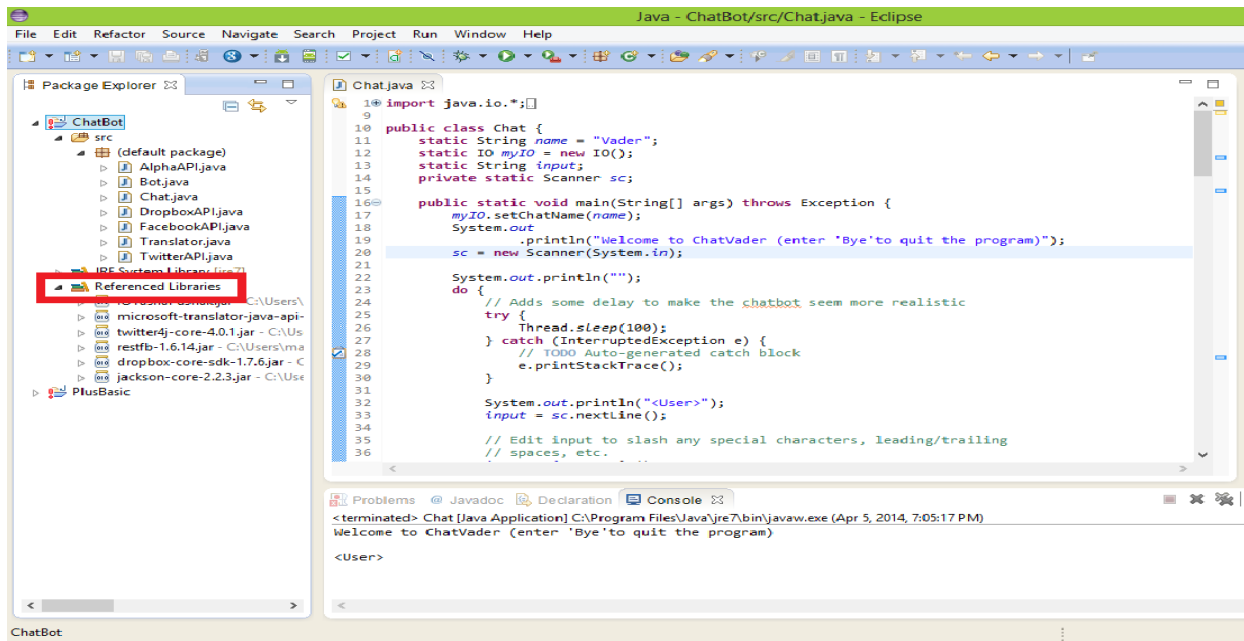


Figure 4.2 Right click on the Reference library, for we will include the .jar files in the program

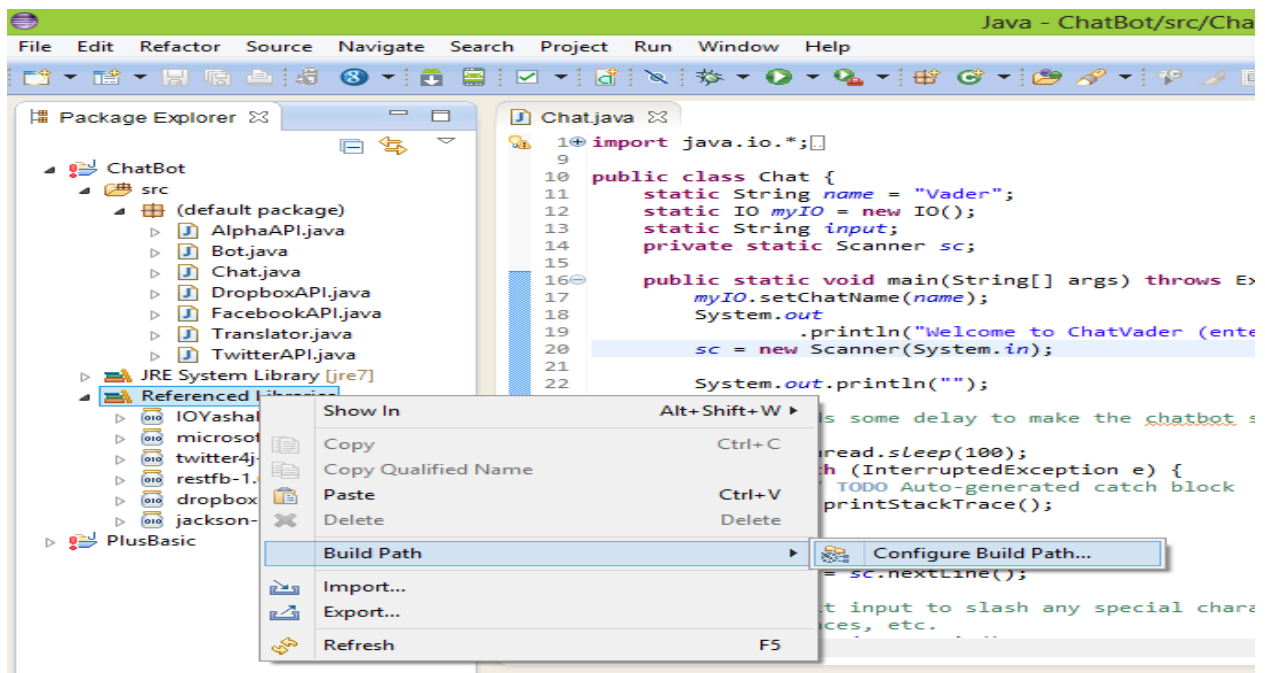


Figure 4.3 Right click on Reference library: **Build Path**→**Configure Build Path**

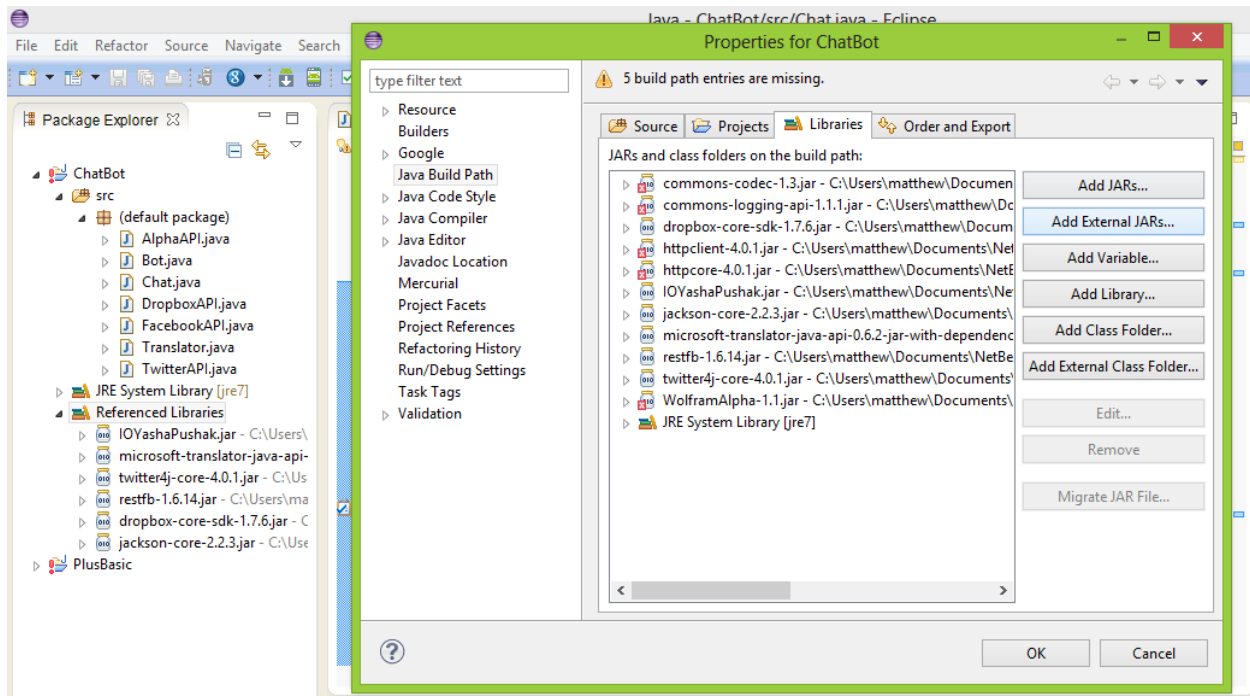


Figure 4.4 After you opened up Configure Build Path, click on Add External Jars.

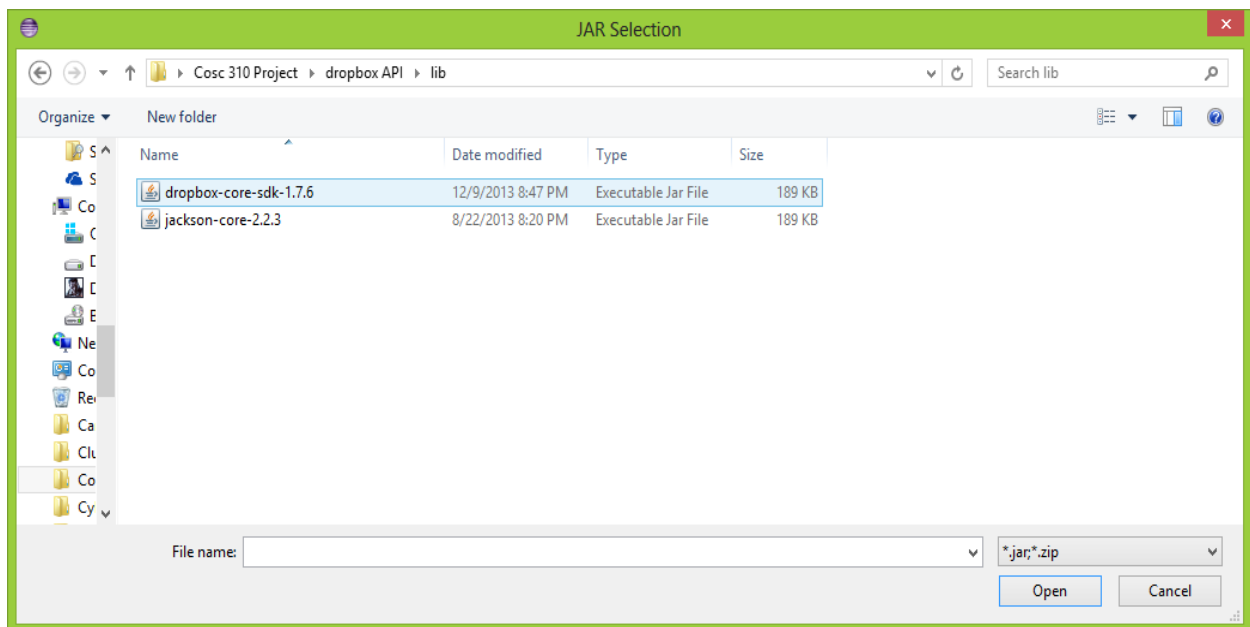


Figure 4.5 Then locate your jar files in your computer then press ok.

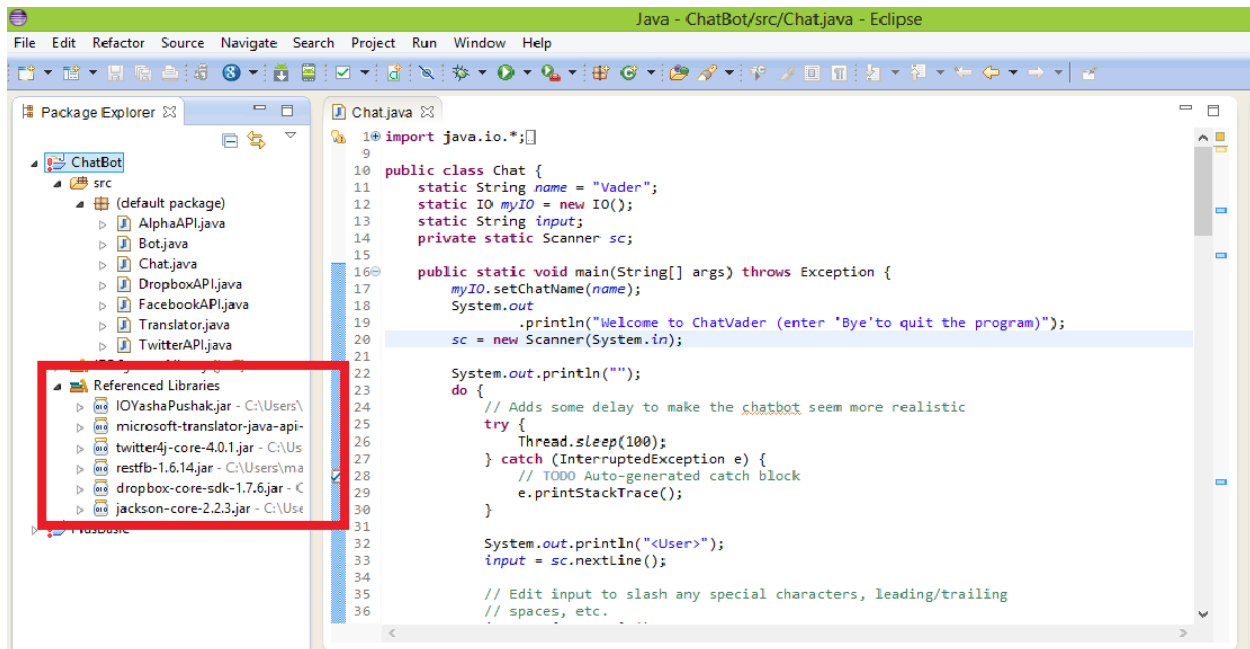


Figure 4.6 after you added some jars, It should look like this (Not all jar files are included in this picture)

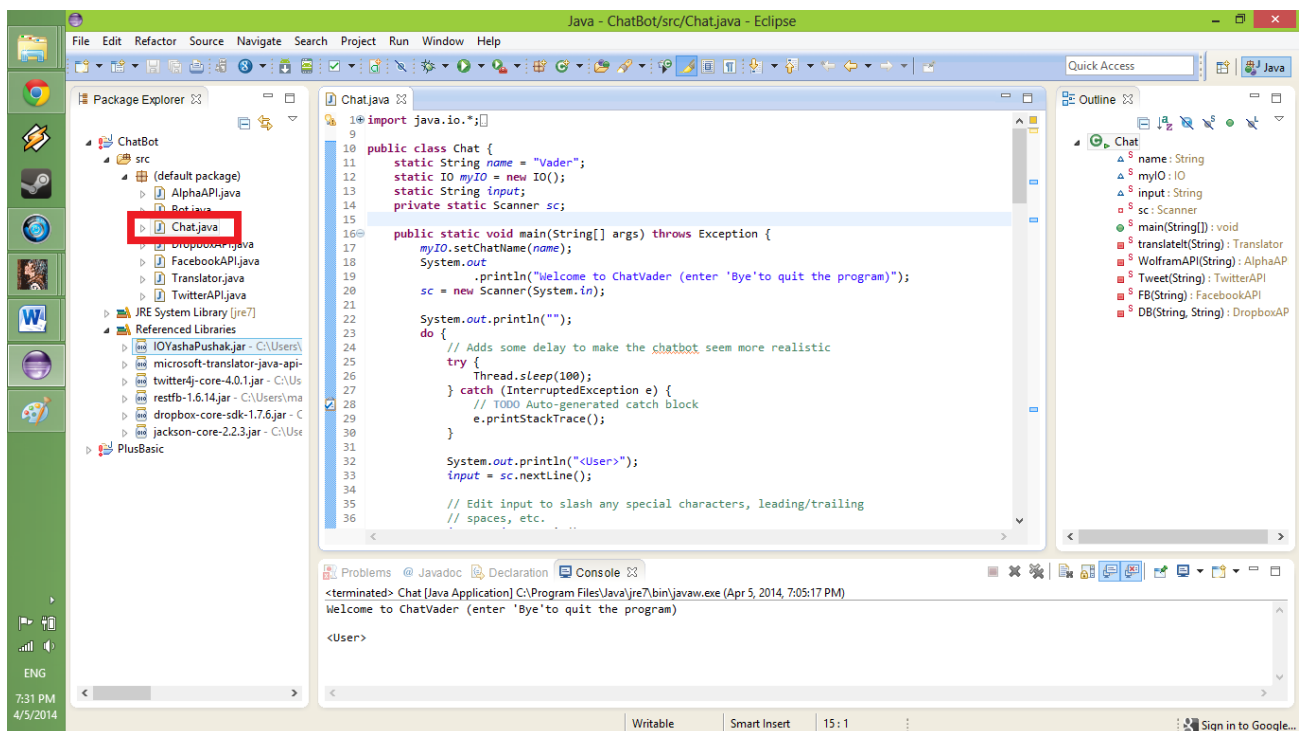


Figure 4.7 now open up Chat.java and run the file.

5) You can input your text and press enter. ChatVader will give you a clever response.

6) Some inputs you can try are:

"Hello", "How do you eat?", "What do you like?", "Where are you from?"

## Special Features

In the next section, I will discuss the special features implemented into this program.

7) This program now has implemented the Twitter API. The program will return the feeds on a specific user's timeline



Figure 7.1 I decided I want to get tweets from this person. I will need his user name @darthvader.

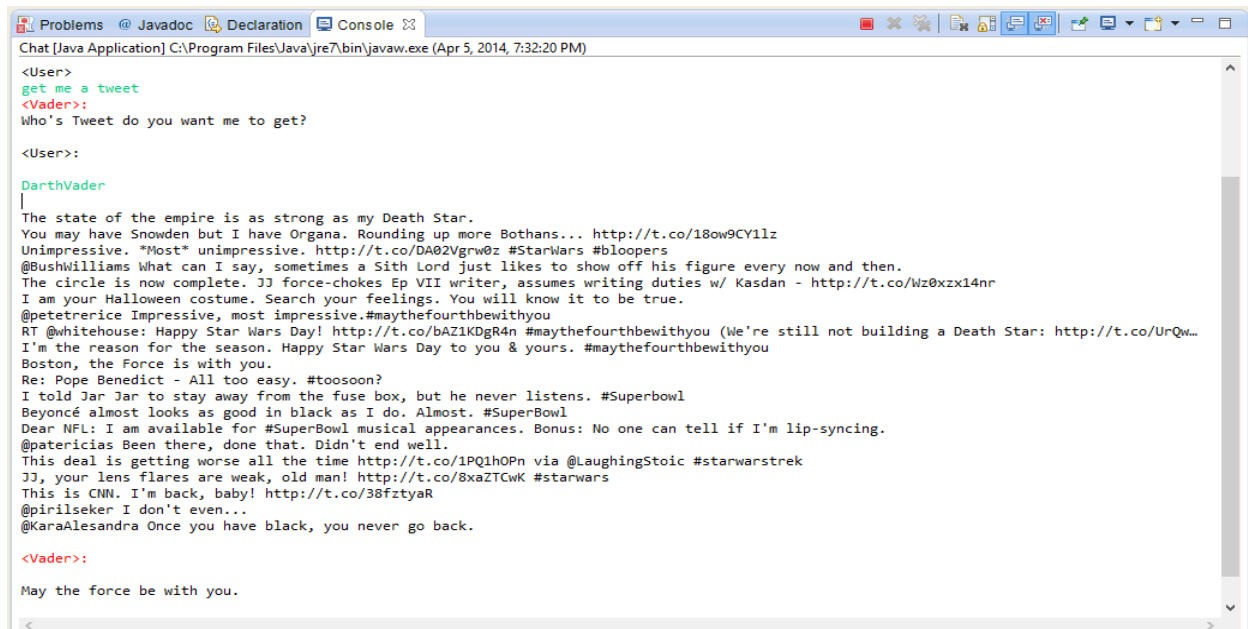
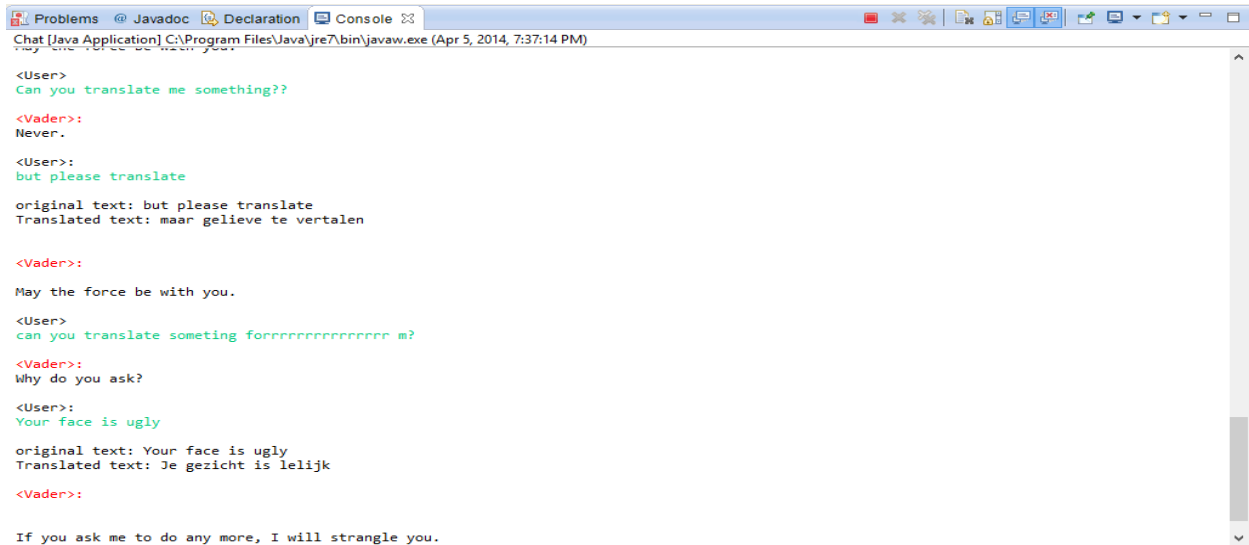


Figure 7.2 Twitter response from @darthvader

Ask ChatVader to “get me a tweet.” ChatVader will ask for a person you want to get tweets from. In this example, I chose darthvader as the person I want to get tweet from. ChatVader will then fetch you the tweets on the user's timeline shown in figure 7.2.

## 8) The program now has implemented Bing Translator API



```
Problems Javadoc Declaration Console
Chat [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Apr 5, 2014, 7:37:14 PM)
May the force be with you.

<User>
Can you translate me something??

<Vader>:
Never.

<User>:
but please translate

original text: but please translate
Translated text: maar gelieve te vertalen

<Vader>:

May the force be with you.

<User>
can you translate someting forrrrrrrrrrrrrrrrrrrrr m?

<Vader>:
Why do you ask?

<User>:
Your face is ugly

original text: Your face is ugly
Translated text: Je gezicht is lelijk

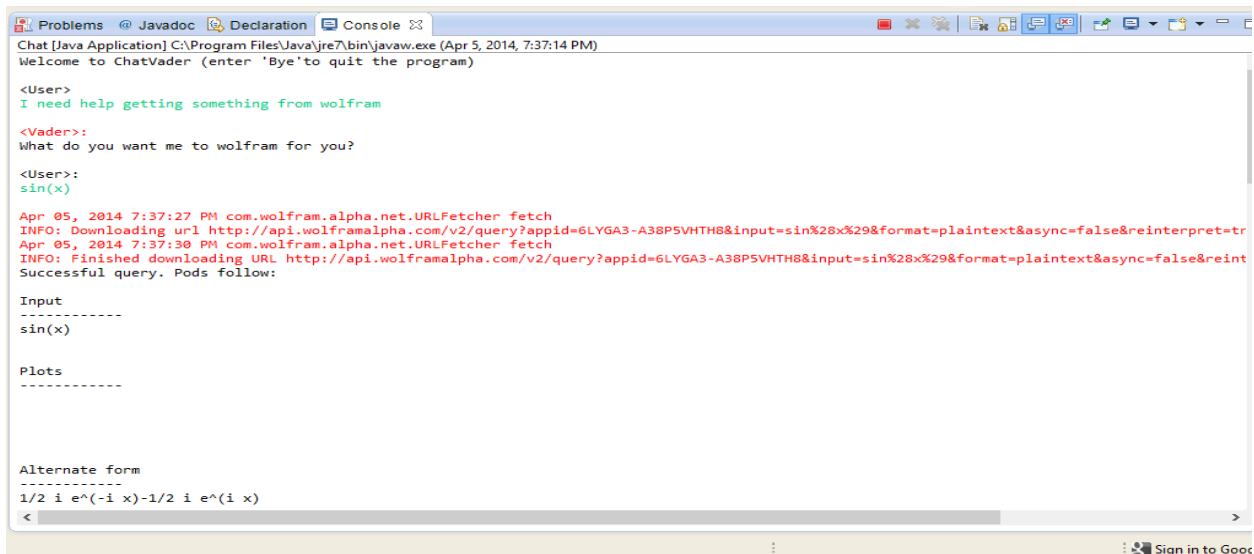
<Vader>:

If you ask me to do any more, I will strangle you.
```

Figure 8.1 ChatVader translating the user input.

Ask ChatVader to translate something. The next input, that followed after you ask, it will translate the phrase into Dutch shown in figure 8.1.

## 9) The program now has implemented Wolfram API



```
Problems Javadoc Declaration Console
Chat [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Apr 5, 2014, 7:37:14 PM)
Welcome to ChatVader (enter 'Bye' to quit the program)

<User>
I need help getting something from wolfram

<Vader>:
What do you want me to wolfram for you?

<User>:
sin(x)

Apr 05, 2014 7:37:27 PM com.wolfram.alpha.net.URLFetcher fetch
INFO: Downloading url http://api.wolframalpha.com/v2/query?appid=6LYGA3-A38P5VHT8&input=sin%28x%29&format=plaintext&async=false&reinterpret=tr
Apr 05, 2014 7:37:30 PM com.wolfram.alpha.net.URLFetcher fetch
INFO: Finished downloading URL http://api.wolframalpha.com/v2/query?appid=6LYGA3-A38P5VHT8&input=sin%28x%29&format=plaintext&async=false&reint
Successful query. Pods follow:

Input
-----
sin(x)

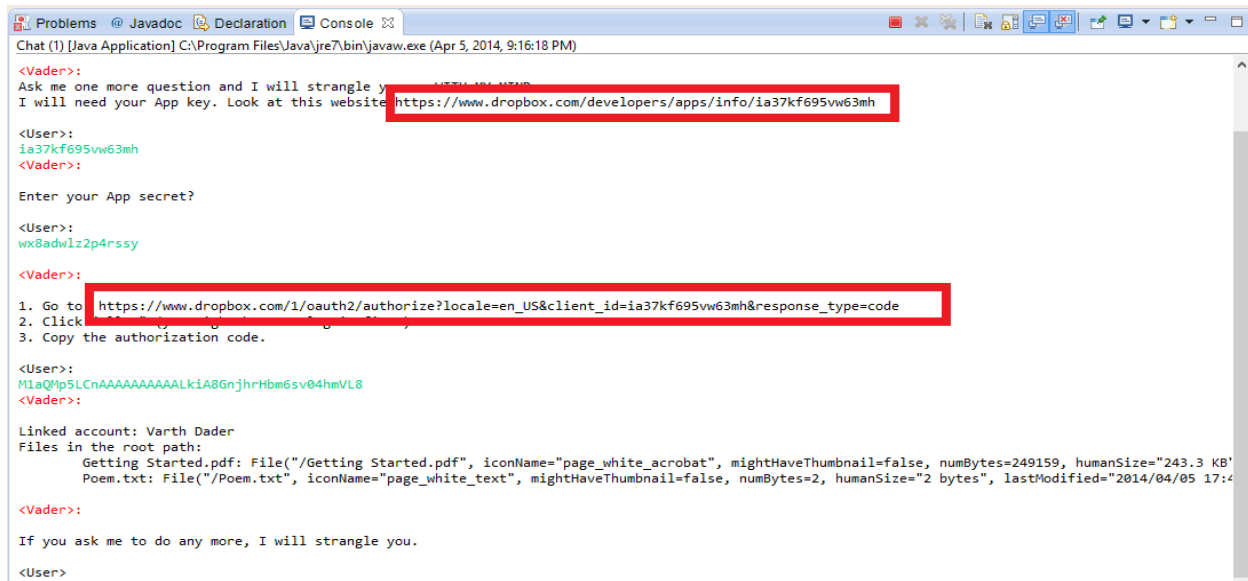
Plots
-----

Alternate form
-----
1/2 i e^(-i x)-1/2 i e^(i x)
```

Figure 9.1 Chat Vader “Wolframing” the user an answer.

Ask ChatVader to wolfram you a math question. In this example, I asked what sin(x) is. ChatVader will fetch the answer from Wolfram shown in figure 9.1.

## 10) The program now has implemented Dropbox API



```
Chat (1) [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Apr 5, 2014, 9:16:18 PM)

<Vader>:
Ask me one more question and I will strangle you.
I will need your App key. Look at this website https://www.dropbox.com/developers/apps/info/ia37kf695vw63mh

<User>:
ia37kf695vw63mh
<Vader>:

Enter your App secret?

<User>:
wx8adwlz2p4rssy
<Vader>:

1. Go to https://www.dropbox.com/1/oauth2/authorize?locale=en_US&client_id=ia37kf695vw63mh&response_type=code
2. Click "Allow"
3. Copy the authorization code.

<User>:
M1aQip5LCnAAAAAAAAAALk1A8GnjhrHbm6sv04hmVL8
<Vader>:

Linked account: Varth Dader
Files in the root path:
  Getting Started.pdf: File("/Getting Started.pdf", iconName="page_white_acrobat", mightHaveThumbnail=false, numBytes=249159, humanSize="243.3 KB", lastModified="2014/04/05 17:40")
  Poem.txt: File("/Poem.txt", iconName="page_white_text", mightHaveThumbnail=false, numBytes=2, humanSize="2 bytes", lastModified="2014/04/05 17:40")

<Vader>:

If you ask me to do any more, I will strangle you.

<User>
```

Figure 10.1 ChatVader will ask for your App key and App secret

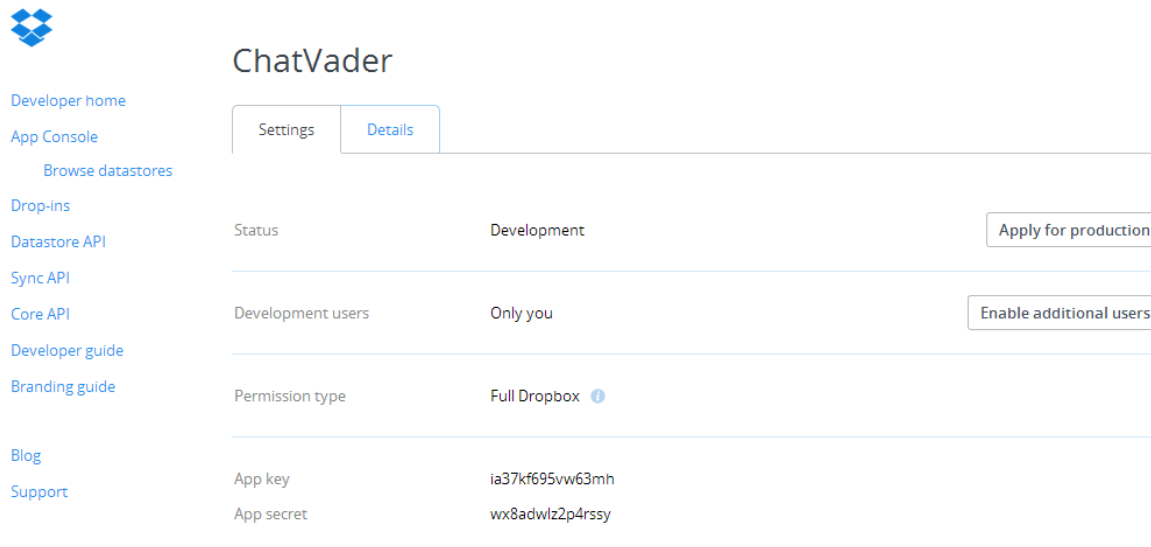


Figure 10.2 Dropbox Developer App key and App secret

Ask ChatVader to help you look up your drop box. He will then specifically ask for your App key. Follow the first website provided to obtain your App key and your App secret shown in figure 10.1. The website will lead you to the drop box developer's page shown in figure 10.2. Use the following App key and App secret to answer ChatVader. Dropbox will then need a confirmation of authorization, which the second website shown in figure 10.1 will lead to.

A test account is provided at the bottom of the page.



## 11) The program now has implemented Facebook API



Figure 11.3 Developer's site to obtain Access Token

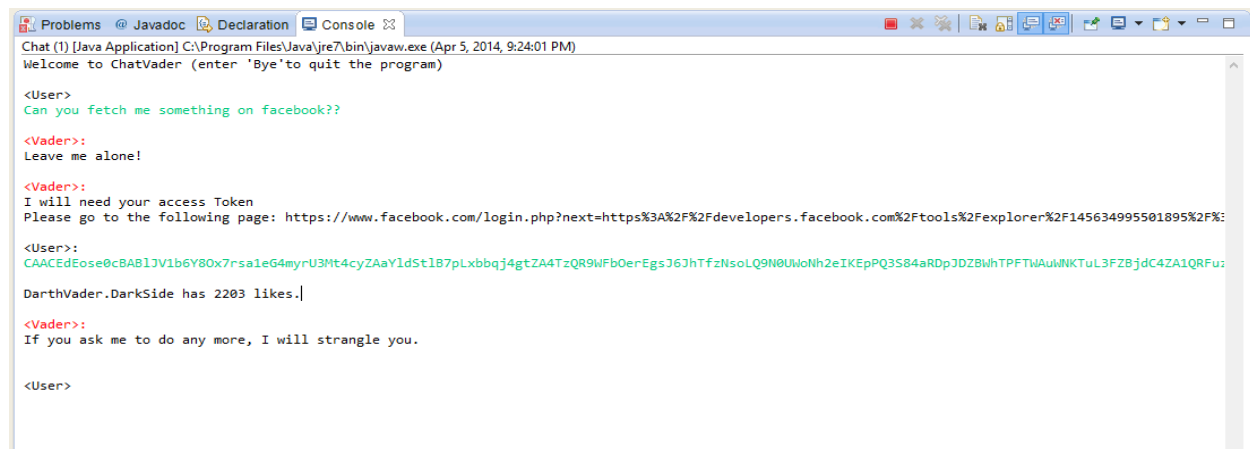


Figure 11.2 ChatVader fetching info from DarthVader.DarkSide page

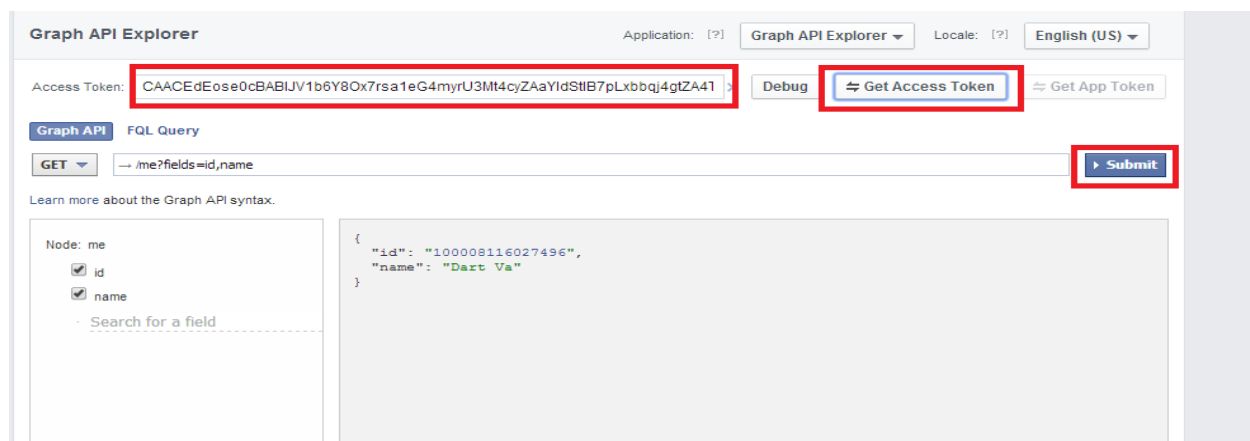
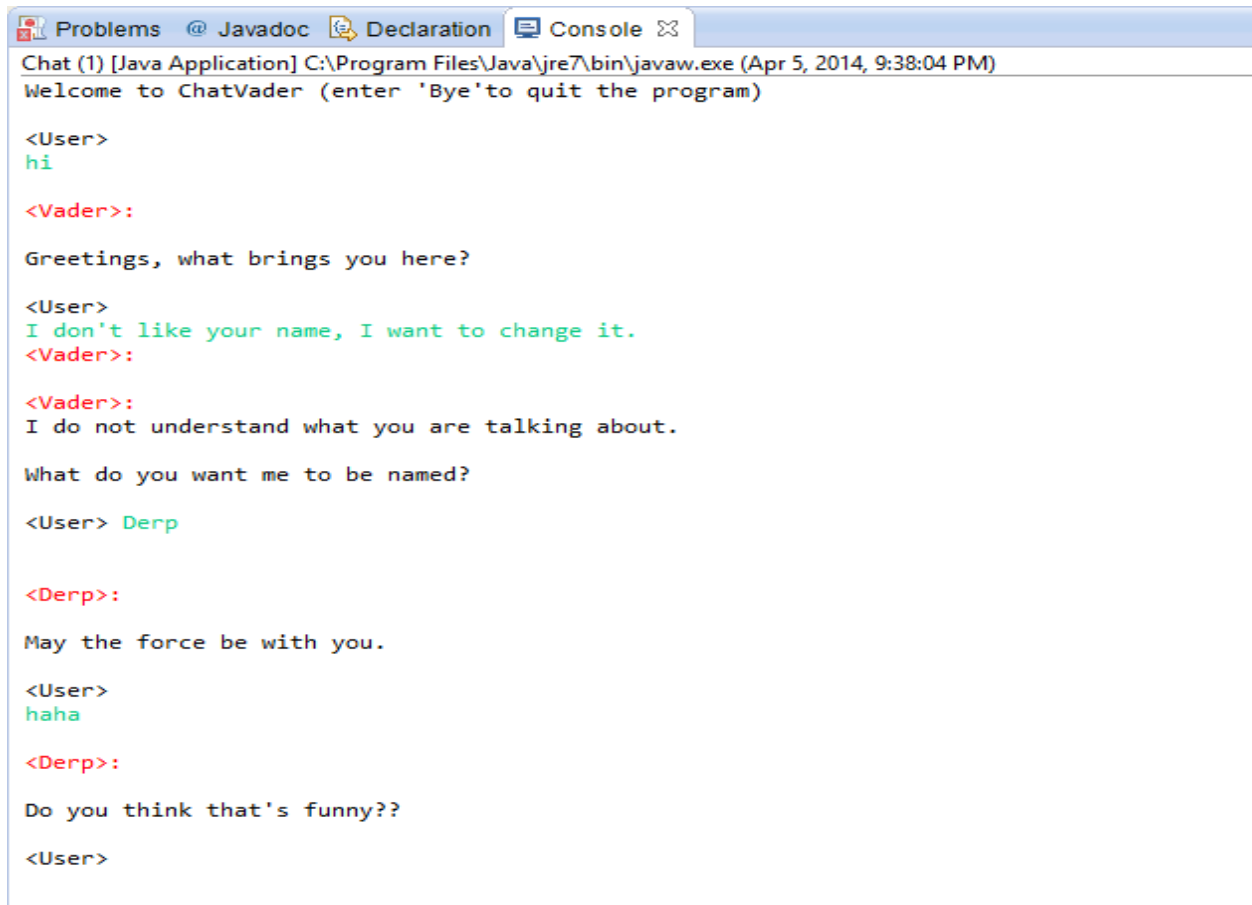


Figure 11.3 DarthVader.Darkside's facebook page

Ask ChatVader to fetch something on Facebook. ChatVader will also ask “who’s page do you want me to fetch.” ChatVader will gladly help you if you ask nicely. In this example, I chose DarhVader.Darkside as the page I want to fetch. ChatVader will direct you to the facebook developer’s page. After all the confirmation, you will have to press “Submit” then “Get Access Token.” Copy the Access Token and give it back to ChatVader.

A test account is provided at the bottom of the page.

12) Lastly, this program have implemented a classmate’s API



```
Problems @ Javadoc Declaration Console
Chat (1) [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Apr 5, 2014, 9:38:04 PM)
Welcome to ChatVader (enter 'Bye' to quit the program)

<User>
hi

<Vader>:

Greetings, what brings you here?

<User>
I don't like your name, I want to change it.
<Vader>:

<Vader>:
I do not understand what you are talking about.

What do you want me to be named?

<User> Derp

<Derp>:

May the force be with you.

<User>
haha

<Derp>:

Do you think that's funny??

<User>
```

Figure 12.1 Changing ChatVader’s name to derp

ChatVader has implemented IOYasha, Yasha’s API. The special function in this API is that it can change the name of ChatVader shown in figure 14.1. In the example shown in figure 12.1, ChatVader’s name is in red. I decided to change ChatVader’s name to “derp.” ChatVader will gladly do so.

**Test Account information:**

Here is a test account information that you can try the features with.

**Dropbox email:** derpvader@hotmail.com

**Dropbox pw:** a1s2d3f4

**Facebook email:** [derpvader@hotmail.com](mailto:derpvader@hotmail.com)

**Facebook pw:** a1s2d3f4