# 10.22

# Assignment Requirement:

(20 points) Research and write a report (around 4-6 pages) on the top 3 chatbot development platforms available today. Analyse these platforms and discuss their pros and cons through a comparative framework. In this report, you will also discuss the best approach (according to your research) to develop a chatbot in JAVA.

(80 points) Using AIML (Artificial Intelligence Markup Language – invented by well-known Dr. Richard Wallace who has a Ph.D. in computer science from Carnegie Mellon University) and JAVA develop a chatbot for a domain of your choice. AIML is an XML-complaint language designed for creating AI flows and is platform agnostic. For the GUI part of this program you must use JavaFX to build the GUI. See https://www.chatbots.org/expert/richard\_wallace/257/ (Links to an external site.)

(+15 points) Add voice recognition features to your chatbot. Users should be able to interact with your chatbot through voice (similar to Siri or Alexa).

# Report Part

## Data Source

Choosing the Best Chatbot Platform 101: A Beginner’s Guide

<https://chatbotsmagazine.com/choosing-the-best-chatbot-platform-101-a-beginners-guide-e841b41192c7>

25 Chatbot Platforms: A Comparative Table

<https://chatbotsjournal.com/25-chatbot-platforms-a-comparative-table-aeefc932eaff>

Top 13:

<https://chatbotslife.com/13-of-the-best-ai-chatbot-platforms-to-increase-your-conversions-d2ab2c533696>

Top 10:

<https://dzone.com/articles/top-10-powerful-platforms-for-chatbot-development>

Top 10:

<https://www.linkedin.com/pulse/top-chatbot-development-platforms-chat-bot-builder-nilesh-talaviya/>

Best chatbot building platforms for developers **(YouTube):**

<https://www.techworld.com/picture-gallery/apps-wearables/platforms-for-developers-build-chatbots-3639106/>

## To Do

IBM Watson - Jessica

Microsoft Bot Framework - Min Li

Chatfuel - Cindy

Conclusion & Comparison (Best solution in JAVA) - Zipei

## Report Structure

Brief introduction (company, history…

Core technology (coding method?

Pros + Cons (Comparative dimensions参考网页：25 Chatbot Platforms: A Comparative Table

## DDL

11.18：文档reference以及各自部分最后检查一遍（EVERYONE）

11.20：调格式+语法（Min Li）

# Code Part

## Topic & Data

<https://www.australia.cmu.edu/apply/frequently-asked-questions>

## Code Source

AIML：

<https://howtodoinjava.com/ai/java-aiml-chatbot-example/>

<https://pandorabots.com/docs/aiml/reference.html#request->

AIML高级的!!! <https://www.tutorialspoint.com/aiml/aiml_introduction.htm>

<http://www.ntu.edu.sg/home/ehchua/programming/java/j4a_gui.html>

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

AIML online platform: <https://home.pandorabots.com/home.html>

Canvas上的links:

1. JavaFX: scene builder <https://www.oracle.com/technetwork/java/javase/downloads/javafxscenebuilder-info-2157684.html>

2. Using Scene Builder with Netbeans:<https://docs.oracle.com/javase/8/scene-builder-2/work-with-java-ides/sb-with-nb.htm#JSBID108>

3. Using JavaFX Charts：<https://docs.oracle.com/javafx/2/charts/jfxpub-charts.htm>

## DDL

11.20：完成各自负责的code，汇总并提交（EVERYONE）