

# Module 12 - Assignment

[Start Assignment](#)

- Due Sunday by 11:59pm
- Points 60
- Submitting a file upload
- Attempts 0
- Allowed Attempts 1

This assignment will extend the work you did in Module 10 to develop a chatbot “intent” classifier and complete the effort by building out a full chatbot. Using the data from Module 10, build a chatbot for the [Pozek Group](https://www.pozekgroup.com/). [\(https://www.pozekgroup.com/\)](https://www.pozekgroup.com/).

There are three primary “intents” that the Pozek Group is interested in: Buyer, Seller, Media Interest. A buyer is someone that is looking to buy a home in the Orlando area and is looking for a buyer’s agent. A seller is someone that is looking to sell a home and is looking for a seller’s agent. If you look up the Pozek Group, you will see that they develop a lot of media about the Orlando area, ranging from local news to how changes in the economy impact the real-estate market. Thus, media interest would be people interested in either sharing news stories and opinion pieces or asking questions about existing content. There are secondary “intents” such as Rent, people interested in renting a home; and Networking, other realtors reaching out to build their realtor network.

To qualify a potential lead, the chatbot must capture as a minimum, the user’s name, phone number, and email address. Ideally, it should also capture the user’s intent, timing (e.g. when they are looking to buy or sell), where they are looking (e.g. specific neighborhoods, landmarks, locations), their price range, whether they are already working with another agent, and good times for someone from the Pozek Group to reach back out to them.

You will construct a chatbot for the Pozek Group using Amazon Lex. You may view the tutorials in Lectures to familiarize yourself with the Amazon service.

Submit the following:

1. A video that demonstrates the use of your chatbot.
2. A flow chart different patterns of conversation.
3. All code and documentation necessary for the instructor to deploy and test your chatbot.

The chatbots will be shared and judged by the Pozek Group. The best chatbot will receive 10 bonus points.

A potential final project for this course, could be to further develop your chatbot with client feedback and deploy the asset on the Pozek Group website. Please let your instructor know if you are interested in this option.

