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| **inputText example** | **Intent Type identified by Amazon Lex** | **NLU response text** | **actionType** | **App Actions** |
| “how do I make a note” | AppHelpNotes | “notes” | APP\_HELP | 1. Display “Let me help you with that.” in the chat window. Do text-to-voice as well. 2. Direct the user to the help screen for the app feature identified in the response. |
| “how do I use the mic” | AppHelpMic | “mic” |
| “how do I change choose a different language” | AppHelpLanguage | “language” |
| “how do I change the color” | AppHelpTheme | “theme” |
| “how do I clear my notifications” | AppHelpNotifications | “notifications” |
| “how do I increase the volume” | AppHelpSound | “sound” |
| “how do I make the text bigger” | AppHelpFont | “font” |
| “how do I change my trigger phrase” | AppHelpTrigger | “trigger” |
| “how do I sync files with the cloud service” | AppHelpCloud | “cloud” |
| “how do add things to my calendar” | AppHelpCalendar | “calendar” |
| “how do I remove items from my checklist” | AppHelpChecklist | “checklist” |
| “how do I use the fingerprint sensor” | AppHelpSecurity | “security” |
| “take me to the main menu” | AppNavMenu | “menu” | APP\_NAV | 1. Display “Taking you to the [response] screen.” in the chat window. Do text-to-voice as well. 2. Direct the user to the screen identified in the response. |
| “I want to see my notes” | AppNavNotes | “notes” |
| “show me my notifications” | AppNavNotifications | “notifications” |
| “I want to use the mic” | AppNavMic | “mic” |
| “where are the settings” | AppNavSettings | “settings” |
| “I need help” | AppNavHelp | “help” |
| “go back to the trigger screen” | AppNavTrigger | “trigger” |
| “I want to sync my notes with the cloud” | AppNavCloud | “cloud” |
| “I want to change my security settings” | AppNavSecurity | “security” |
| “show me my schedule” | AppNavCalendar | “calendar” |
| “I want to add things to my checklist” | AppNavChecklist | “checklist” |
| “how’s it going” | HowAreYou | “I am doing fine. Thanks.” | ANSWER | 1. Take what is in the response and display it in the chat window. Do text-to-voice as well. |
| “hey” | Hello | “Hi” |
| “what’s your name” | WhatIsYourName | “My name is Sam” |
| “thanks” | ThankYou | “You’re welcome” |
| “what was I saying” | LastThingSaid | “You said: ‘[LAST THING SAID]’ ” |
| “you’re really helpful” | Compliment | “Thanks” |
| “shut up” | Insult | “I’m sorry you feel that way” |
| “see ya later” | Goodbye | “Goodbye” |
| “what is the purpose of life” | FallbackIntent | “I’m sorry, but I don’t understand.” |
| “what do I need to do later” | SearchNotes | “You need to pick up eggs.” |
| “why am I going to Walmart” | WhyAmIHere | “You are going to pick up eggs.” |
| “my aunt is 65 years old” | CreateNote | “My aunt is 65 years old.” | CREATE\_NOTE | 1. Create a new note with what is in the response. 2. Display “I created a note for you.” in the chat window. Do text-to-voice as well. 3. (Optional) Direct the user to the notes screen. |
| “I have a meeting tomorrow at 6pm” | CreateEvent | “I have a meeting.” | 1. Create a new note (event) with what is in the response. Take the values stored in eventDate and eventTime to create an event that can be added to the app’s calendar. 2. Display “I created a note for you.” in the chat window. Do text-to-voice as well. 3. (Optional) Direct the user to the notes screen. |
| “I have a meeting every week on Friday at 6pm” | CreateRecurringEvent | “I have a meeting on Friday at 6pm” | 1. Create a new note (checklist) with what is in the response. The value stored in recurringType will indicate which checklist to add the note to (ex: “daily”, “weekly”). 2. Display “I created a note for you.” in the chat window. Do text-to-voice as well. 3. (Optional) Direct the user to the notes screen. |
| “I need to pick up eggs today at 4pm” | CreateActionEvent | “I need to pick up eggs.” | 1. Create a new note (event) with what is in the response. Take the values stored in eventDate and eventTime to create an event that can be added to the app’s calendar. 2. Display “I created a note for you.” in the chat window. Do text-to-voice as well. 3. (Optional) Direct the user to the notes screen. |
| “I need to brush my teeth every day” | CreateRecurringActionEvent | “Brush my teeth.” | 1. Create a new note (checklist) with what is in the response. The value stored in recurringType will indicate which checklist to add the note to (ex: “daily”, “weekly”). 2. Display “I created a note for you.” in the chat window. Do text-to-voice as well. 3. (Optional) Direct the user to the notes screen. |
| “where am I” | UserLocation | “” | USER\_LOCATION | 1. Determine the user’s location via an API or library 2. Either display their location (e.g., open Google Maps) or state their location (e.g., “You are at Park Place in Townsville, CA.”). Do text-to-voice as well. |

NLU INPUT

{

(String) inputText: “I need to buy eggs tomorrow at 4pm”,

(String) locale: “en-us”

}

NLU OUTPUT

{

(ActionType) actionType: ActionType.CREATE\_NOTE,

(String?) inputMessage: “I need to buy eggs tomorrow at 4pm”,

(String?) response: “I need to buy eggs.”,

(NLUState) state: NLUState.COMPLETE,

(String?) eventType: “buy eggs”,

(String?) eventDate: “2021-10-21”,  
 (String?) eventTime: “16:00”,

(List<String>?) resolvedValue: null,

(String?) recurringType: null,

}