

Sessions & Voice User Interface Design

Madlib Builder 1/4 Alexa, start Madlibs. Give me an adjective. Give me another adjective. Fiery.

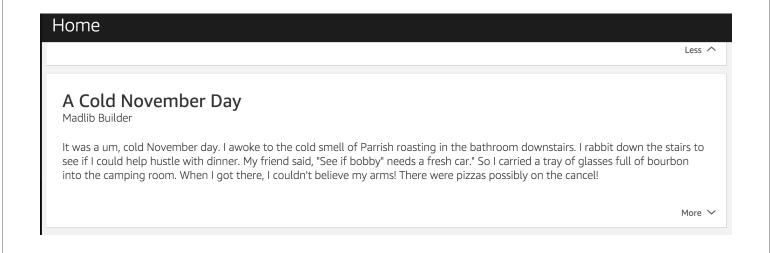
Madlib Builder 2/4

The madlib is complete, I will now read it back to you!

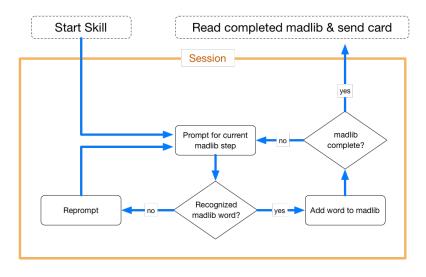
It was an ancient, cold November day. I awoke to the cloudy smell of eagle roasting in the closet. I sprinted down the stairs to see if I could help jump with dinner. My friend said "see if Frank needs a fresh wheelchair." So, I carried a glass full of mercury into the living room.

Give me another adjective. Help. Speak an adjective to add it to the madlib. An adjective is a word that modifies a noun to make it more specific: rotten, cloudy, or cool are all adjectives. What adjective would you like?

Madlib Builder 4/4



Designing the Voice User Interface



VUI Invocation Types

- Full Intent all info required to complete request for Intent
- Partial Intent only some info passed in to complete the Intent, needs more info

VUI Invocation Types: Full Intent

• Full Intent - all info required to complete request for Intent

"Alexa, ask Hello Alexa to Say Hello."

"Alexa, ask Airport Info for Flight Delays at ATL."

"Alexa, ask Fantasy Names for an Elf Name."

"Alexa, tell Lucky 8-Ball to get my fortune."

VUI Invocation Types: Partial Intent

• Partial Intent - only some info passed in to complete the Intent, needs more info needs to continue the interaction to complete the request.

"Alexa, ask Madlibs to start a Madlib." - which madlib?

"Alexa, ask Horoscopes for my horoscope." - what's your sign?

Verfying the Intent's Values

Verifying a Full Invocation is a good VUI practice to ensure necessary values are present.

Example:

```
var airportCode = req.slot('AIRPORTCODE');
var reprompt = 'Tell me an airport code to get delay information.';
if (_.isEmpty(airportCode)) {
    var prompt = 'I didn\'t hear an airport code. Tell me an airport code.';
    res.say(prompt).reprompt(reprompt).shouldEndSession(false);
} else {
    var faaHelper = new FAADataHelper();
    faaHelper.requestAirportStatus(airportCode).then(function(airportStatus) {
        console.log(airportStatus);
        res.say(faaHelper.formatAirportStatus(airportStatus)).send();
});
```

VUI Guidelines 1/5

Make it clear user needs to respond

Do:

Welcome to madlibs. Here are the madlib choices: a cold november day, a valentine's story, a visit to the dentist. Which do you want?



VUI Guidelines 1/5

Make it clear user needs to respond Don't:

Welcome to madlibs. You can choose a cold november day, a valentine's story, a visit to the dentist.



VUI Guidelines 2/5

Avoid overwhelming users with too many choices Do:

Here are the madlib choices: a cold november day, a valentine's story, a visit to the dentist. Which do you want?



VUI Guidelines 2/5

Avoid overwhelming users with too many choices

Don't:

Welcome to madlibs. To select a cold november day say "a cold November day", for a valentine's story say "a valentines story", for a dentist madlib, say "a trip to the dentist". You can also say cancel to exit the skill, or help to get more information. What would you like to do?



Obtain one piece of information at a time

Do:

Give me an adjective.



VUI Guidelines 3/5

Obtain one piece of information at a time

Don't:

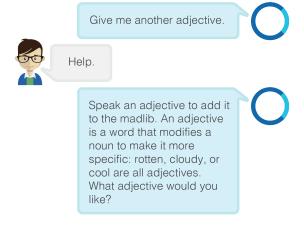
Give me an adjective, an adverb, a noun, another noun, a family members name, and a type of a liquid.



VUI Guidelines 4/5

Offer contextual help

Good:



VUI Guidelines 5/5 Offer contextual help Bad: Give me an adjective. I don't understand. Give me an adjective. I don't understand. Give me an adjective.

AMAZON.StopIntent

Keeping Track of Session State

```
var MADLIB_BUILDER_SESSION_KEY = 'madlib_builder';
app.intent('madlibIntent'
function(request, response) {
    var madlibHelperData = request.session(MADLIB_BUILDER_SESSION_KEY);
    if (madlibHelperData === undefined) {
        madlibHelperData = {};
    }
    new MadlibHelper(madlibHelperData);
    madlibHelper.currentStep++;
    response.say('Give me ' + madlibHelper.getPrompt());
    response.reprompt('I didn\'t hear anything. Give me ' + madlibHelper.getPrompt() + ' to continue.');
    response.shouldEndSession(false);
    response.session(MADLIB_BUILDER_SESSION_KEY, madlibHelper);
    }
);
```

Tidying up

```
var MADLIB_BUILDER_SESSION_KEY = 'madlib_builder';

var getMadlibHelper = function(request) {
   var madlibHelperData = request.session(MADLIB_BUILDER_SESSION_KEY);
   if (madlibHelperData === undefined) {
      madlibHelperData = {};
   }
   return new MadlibHelper(madlibHelperData);
};
```

Implementing Contextual Help

Implementing Contextual Help 1/2

```
app.intent('AMAZON.HelpIntent', {},
  function(request, response) {
   var madlibHelper = getMadlibHelper(request);
   var help = 'Welcome to madlibbuilder. ' +
   'To start a new madlib, say create a madlib.' +
   'You can also say stop or cancel to exit.';
   if (madlibHelper.started) {
     help = madlibHelper.getStep().help;
   }
   response.say(help).shouldEndSession(false);
});
```

Implementing Contextual Help 2/2

Creating a Card 1/2

Home

Less ^

A Cold November Day

Madlib Builder

It was a um, cold November day. I awoke to the cold smell of Parrish roasting in the bathroom downstairs. I rabbit down the stairs to see if I could help hustle with dinner. My friend said, "See if bobby" needs a fresh car." So I carried a tray of glasses full of bourbon into the camping room. When I got there, I couldn't believe my arms! There were pizzas possibly on the cancel!

More ∨

Creating a Card 2/2

response.card(title, body, subtitle);

```
if (madlibHelper.completed()) {
  var completedMadlib = madlibHelper.buildMadlib();
  console.log('madlib completed! Result: ' + completedMadlib);
  response.card(madlibHelper.currentMadlib().title, completedMadlib, 'Madlib Builder');
  response.say('The madlib is complete! I will now read it to you. ' + madlibHelper.buildMadlib()),
  response.shouldEndSession(true);
}
```

Sessions & Voice User Interface Design