CSUN University Calendar

Sachin Bhalekar
Sumit Jawale

Overview

CSUN | University Calendar

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March 2018

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Event Categories

Academic

Alumni

Art

Ceremony/Reception

Civic Engagement

Event

Exhibition

Family Friendly

Film

Guest Speaker

Health and Wellness

Lecture/Panel/Debate/Seminar

Music

Other

Professional Development

Student Life

Theatre

Workshop

University Calendar

Featured

Mimi Chen: Making It in the Competitive World of Radio

Tuesday, March 13, 2018 - 11:00am to 12:15pm

Mimi Chen is known as an FM rock radio disc jockey who has worked in Trenton, Philadelphia, San Francisco, and Los Angeles. While KDBK-FM, San Francisco, she became the first Asian-American talk radio host in an English speaking format, in the midday time slot. She currently Read more

The African Company presents Richard III

Friday, March 9, 2018 - 7:30pm to Sunday, March 18, 2018 - 2:00pm

Forty years before the Civil War, the African Grove Theatre Troupe in New York sets about staging a production of Richard III. But when a major (and white) New York company scores a big name star to be featured in their own production of Richard, they are determined to shut down the African company's show at any cost. Read more

Mimi Chen: Making It in the Competitive World of Radio

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Humanities Advocacy Day

Tuesday, March 13, 2018 - 11:00am

HU Please join us for the First Annual Humanities Advocacy Day. !mark Lopez, M.A. Chican@ Studies and winner of the Goldman Environmental Prize, will be the keynote speaker. In addition there are two program options: a) a workshop on Humanities career options and panel discussion, and b) a tour of the CSUN Leed Platinum Sustainability Center. Read more

Business Issue

- Ask a friend or faculty
- Visit CSUN website
- Visit again for changes
- Importing calendar remains static

Solution

- Use of Voice activated systems
- Develop an Alexa skill
- Get info by asking Alexa
- No browsing required

Alexa skill checklist

1. **Invocation Name**

2. **Intents, Utterance, and Slots**
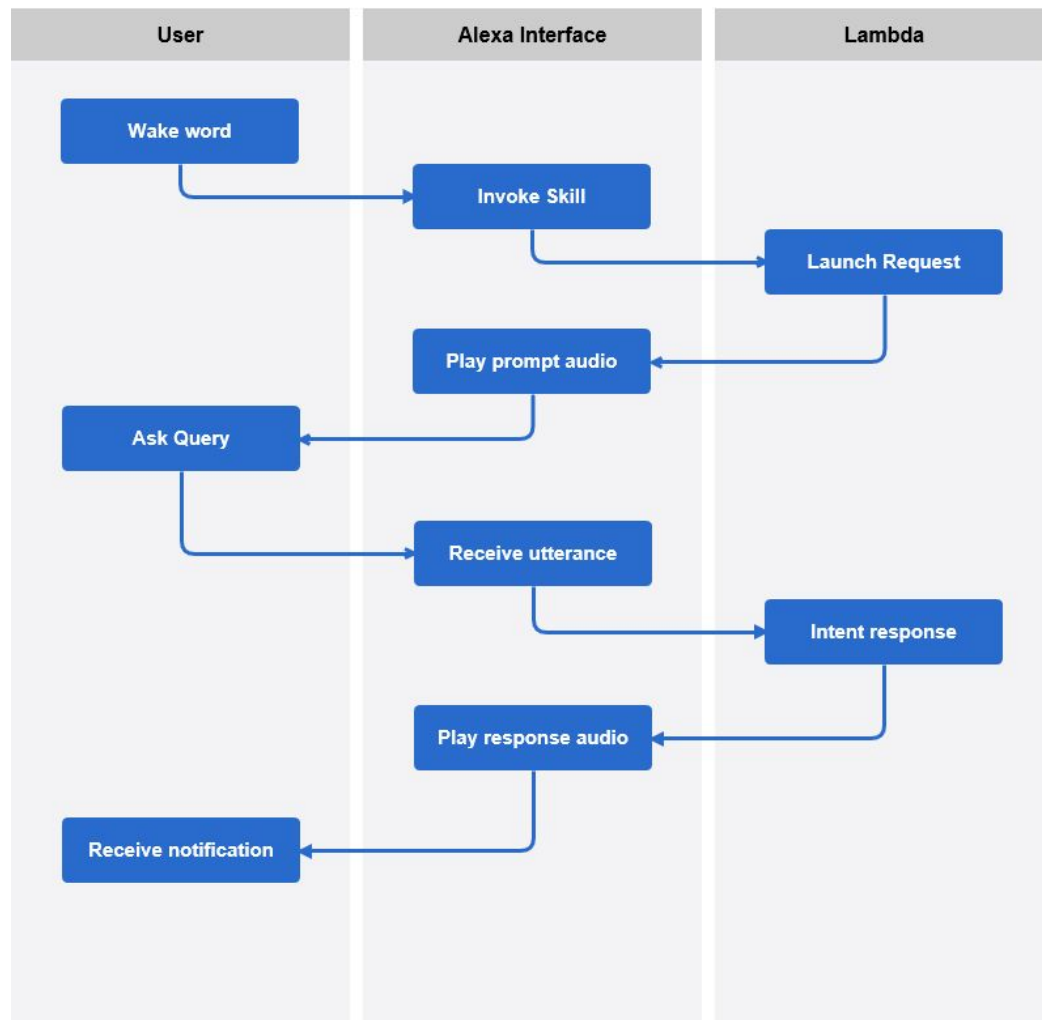
3. **Build Model**

4. **Set Endpoint**

CSUN Calendar

Build up till now

- Register with Amazon account (AWS and Alexa Skills Kit)
- Set up an AWS Lambda endpoint
- Create a new Alexa skill
- Add sample utterances and intents

open c sun calendar

Welcome to CSUN Calendar! The skill that gives you all the information on events at CSUN. There are total 15 upcoming events at CSUN. Which one would you like to know about?

tell me abot event on friday

There is 1 event on 3-9 . Would you like to know more about this event?

tell me more about this event

Education on the Edge with Thomas C. Murray at USU on 3-9. Would you like to know about other events?

Technology Stack

- Node.js (along with alexa-sdk module)
- JSON
- AWS Lambda
- Alexa Skills Kit (Developer Account)

Sample code snippets

Sample code snippet(node.js) in AWS Lambda

```javascript
var Alexa = require('alexa-sdk');
var AmazonDateParser = require('amazon-date-parser');
// Data
var csunEvents = require('./data/CSUNEvents');

// Helpers
var convertArrayToReadableString = require('./helpers/convertArrayToReadableString');

exports.handler = function(event, context, callback){
  var alexa = Alexa.handler(event, context);
  alexa.registerHandlers(handlers);
  alexa.execute();
};

var handlers = {

  'NewSession': function () {

    var csunEventNumber = csunEvents.length;

    this.emit(':ask', `Welcome to CSUN Calendar! The skill that gives you all the information on events at CSUN.
     There are total ${csunEventNumber} upcoming events at CSUN. Which one would you like to know about?`);
  },
```

Sample JSON file for intents

```
{
    "languageModel": {
        "invocationName": "c sun calendar",
        "intents": [
            {
                "name": "AMAZON.CancelIntent",
                "slots": [],
                "samples": []
            },
            {
                "name": "AMAZON.HelpIntent",
                "slots": [],
                "samples": []
            },
            {
                "name": "AMAZON.StopIntent",
                "slots": [],
                "samples": []
            },
            {
                name": "OnDateCapture",
                "slots": [
                    {
                            "name": "OnDate",
                            "type": "AMAZON.DATE"
                    }
                ],
                "samples": [
                    "Tell me about events on {OnDate} ",
                    "one on {OnDate}",
                    "Tell me about events in {OnDate}"
                ]
            },
            {
                "name": "OnIndexCapture",
                "slots": [
                    {
                        "name": "OnIndex",
                        "type": "AMAZON.NUMBER"
                    }
                ],
                "samples": [
                    "tell me about event number {OnIndex}",
                    "number {OnIndex}"
                ]
}
```

Testing

1. Endpoint Testing

- AWS Lambda:
    a. Create a sample input JSON
    b. Configure test cases with samples
    c. Use the Test tool of AWS Lambda in AWS console

Lambda > Functions > fetchCSUNCalendar

ARN - arn:aws:lambda:us-east-1:061221696465:function:fetchCSUNCalendar

fetchCSUNCalendar

Qualifiers ▾   Actions ▾ | as ▾ | Test   Save

Saved Test Events

as

Configure test events

⊘ Execution result: succeeded (logs)   ✕

▸ Details

Configuration   Monitoring

▾ Designer

Add triggers

Click on a trigger from the list
below to add it to your function.

API Gateway

AWS IoT

Alexa Skills Kit

Alexa Smart Home

CloudFront

🔑

⬡ 📇 fetchCSUNCalendar

◯ Alexa Skills Kit   ✕   ╟   🪵 Amazon CloudWatch Logs

Add triggers from the list on the left   Resources the function's role has access to will be shown here

2. Alexa skill testing

- Web console
    - Alexa Simulator
    - Manual JSON
    - Voice & tone

- Alexa device
    - Manual Testing

amazon alexa

Your Alexa Consoles

CSUN Calendar   Build   Test   Launch   Measure

Feedback forum

Test is enabled for this skill

☑ Skill I/O   ☑ Echo Show Display   ☐ Device Log

Alexa Simulator   Manual JSON   Voice & Tone

There is 1 event on 3-16 . Would you like to know more about this event?

English (US)

Type or click and hold the mic

open c sun calendar

Welcome to CSUN Calendar! The skill that gives you all the information on events at CSUN. There are total 15 upcoming events at CSUN. Which one would you like to know about?

tell me about events on friday

There is 1 event on 3-16 . Would you like to know more about this event?

Skill I/O

JSON Input

```
1  {
2      "version": "1.0",
3      "session": {
4          "new": false,
5          "sessionId": "amzn1.echo-api.session.8896ce8b-cbc6-4460-b67a-136a89ff26e1",
6          "application": {
7              "applicationId": "amzn1.ask.skill.4a66daa2-d086-4476-85c5-f74fe4740af5"
8          },
9          "user": {
10             "userId": "amzn1.ask.account.AEZMHGC2HRI2URPWSNZSHZQIEFGTMOIXCTDVQ3M6X3U4AJTDPMLGUI
11         }
12     },
13     "context": {
14         "AudioPlayer": {
15             "playerActivity": "IDLE"
16         },
17         "Display": {
18             "token": ""
19         },
20         "System": {
21             "application": {
22                 "applicationId": "amzn1.ask.skill.4a66daa2-d086-4476-85c5-f74fe4740af5"
23             },
24             "user": {
25                 "userId": "amzn1.ask.account.AEZMHGC2HRI2URPWSNZSHZQIEFGTMOIXCTDVQ3M6X3U4AJTDPI
26             },
27             "device": {
28                 "deviceId": "amzn1.ask.device.AGJ4Q4J7KCHDNVE2YDZDWYNBGVVTDA6MK7DD6QPSANXFI4T6I
29                 "supportedInterfaces": {
30                     "AudioPlayer": {},
31                     "Display": {
32                         "templateVersion": "1.0",
33                         "markupVersion": "1.0"
34                     }
                    }
```

JSON Output

```
1  {
2      "body": {
3          "version": "1.0",
4          "response": {
5              "outputSpeech": {
6                  "type": "SSML",
7                  "ssml": "<speak> There is 1 event on <say-as interpret-as=\"date\" format=\"md\">
8              },
9              "shouldEndSession": false
10         },
11         "sessionAttributes": {
12             "endDate": "<say-as interpret-as=\"date\" format=\"md\">3-16</say-as>",
13             "eventIndex": "single",
14             "startDate": "<say-as interpret-as=\"date\" format=\"md\">3-16</say-as>"
15         },
16         "userAgent": "ask-nodejs/1.0.25 Node/v6.10.3"
17     }
18 }
```

Echo Show Display

Demo