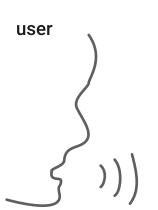
voicePRO v0 Bare bones

Skill Code AWS Lambda

handles intents

handles dialogue



alexa devices



Alexa service

intents: all meds, some meds, hours sleep

input: numbers, drug names, yes/no, confirmation

voicePRO v1 Serverless Applications

Patient Database AWS DynamoDB

·user

- reports: date, resource data, possibly resource json
 - alerts and reminders

Skill Code AWS Lambda

handles intents

handles dialogue

updates DB

user

alexa devices



Alexa service

intents: all meds, some meds, hours sleep

input: numbers, drug names, yes/no, confirmation

account linking

Amazon Cognito

user management

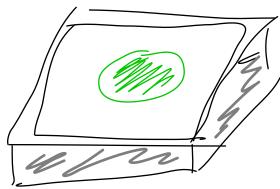
voicePRO v1 **Serverless Applications Patient Database AWS DynamoDB** ·user • reports: date, resource data, possibly resource json alerts and reminders **Cloudwatch Events** run scheduler periodically **Scheduler Code** Skill Code **AWS Lambda AWS Lambda** handles intents manages Alexa notifications Simple notification service handles dialogue sends out daily/periodic email reports reports updates DB Alexa service user intents: all meds, some **Amazon Cognito** meds, hours sleep alexa devices user management input: numbers, drug names, yes/no, confirmation account linking

voicePRO v2 with Button!

Patient Database AWS DynamoDB

·user

- reports: date, resource data, possibly resource json
 - · alerts and reminders



microcontroller w/ tft touch sensitive screen

Cloudwatch Events

run scheduler periodically

Simple notification service

email reports

Scheduler Code AWS Lambda

manages Alexa notifications

sends out daily/periodic reports

Skill Code AWS Lambda

handles intents

handles dialogue

updates DB

Button code AWS Lambda

triggers all meds taken

button setup

updates DB

Alexa service

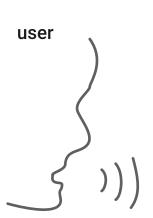
intents: all meds, some meds, hours sleep, setup button

input: numbers, drug names, yes/no, confirmation

account linking

Amazon Cognito

user management





voicePRO v3 website-based customization

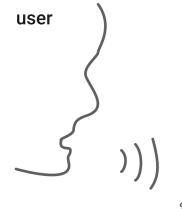
Simple notification service email reports Website

add/remove medication setup periodic reports edit alerts and reminders

view data

setup button

alexa devices



Server

serves website

interfaces to DB

sends out daily/periodic reports

scheduled script to manage Alexa notifications

handles button

Amazon Cognito

user management

Alexa service

intents: all meds, some meds, hours sleep, respond to prom,

input: numbers, drug names, yes/no, confirmation

account linking

microcontroller w/ tft touch sensitive screen

Patient Database AWS DynamoDB

·user

- reports: date, resource data, possibly resource json
 - · alerts and reminders
 - requested reports
 - medication schedules

Skill Code AWS Lambda

handles intents

handles dialogue

updates DB