

Bi-weekly Report 3

Team members:

Bharghavi Damodharan

Justin Chan

Ivailo Stefanov

Overview of our progress:

- ✓ We have finished the Alexa tutorials available on the official Amazon developer page, as well as other Alexa development courses on Udemy.
- ✓ We conducted short interviews with our peers to get feedback on our prototype.
- ✓ We created surveys to establish the user requirements.
- ✓ We collected the results from the survey
- ✓ We analysed the survey results

Summary of our meetings with the client:

- ✓ A meeting to discuss the design of the survey question
- ✓ A meeting to design a survey
- ✓ A meeting to analyse the survey results when it arrived
- ✓ A meeting on the next steps
- ✓ Other general meetings to stay updated

A list of tasks completed

- ✓ HCI website
- ✓ Interviews
- ✓ Survey design
- ✓ HCI video
- ✓ Alexa tutorials
- ✓ Survey result collected
- ✓ Survey result analysis
- ✓ Learning to build an Alexa Skill from scratch
- ✓ Learning Node JS
- ✓ Learning Alexa Development

The plan for the next two weeks.

- Continue learning to build Alexa Skill
- Design an optimal solution
- Start creating a working prototype

Individual sections:

Justin:

I have been talking to Kiran personally and reading the code that he produced. I have now fully understood the codebase from Kiran, as well as the problems associated with it. I am now trying to find the solutions for those problems. Additionally, I have also looked into account linking and hosting the skills kit on Azure.

Ivailo Stefanov:

During the past two weeks, I was mainly involved in researching various frameworks and the optimal project workflow in terms of architecture. Some of the researched frameworks are Express.js, crypto-js, etc. I also had a more in depth look into alexa sessions and JSON APIs.

Bharghavi Damodharan:

During the last two weeks, prior to Christmas, we were still unsure of the exact requirements and whether the product has a demand in the market. Therefore, I created a survey and then gave it to our client to collect feedback from the current gym members across all the Nuffield Health gyms. We received the feedback on the first week of December I arranged a group meeting to analyse them. The results were quite favourable. So, I then proceeded onto learning how to develop some basic Alexa Skills for simple tasks like a greeting. Finally, I wrote this Bi-weekly report.

Survey Questions

Team 30: Nuffield Alexa Development

Amazon Echo/ Google Home – Survey Questions

Amazon Echo is a brand of **smart speakers** developed by Amazon. The device connects to the voice controlled intelligent personal assistant service "Alexa". The device can be used to ask the time or read the news for example. Google also have a similar device called Google Home.

At Nuffield Health, we are currently exploring whether to use these voice controlled devices to allow gym members to **book classes, make queries, check booked sessions, and cancel class bookings**.

Q1. Do you currently own an Amazon Echo or Google Home device?

- Ψεσ, I own an Amazon Echo
- Ψεσ, I own a Google Home
- No but I plan to purchase an Amazon Echo [CLOSE]
- No but I plan to purchase a Google Home [CLOSE]
- No and I don't plan to purchase one [CLOSE]

IF Q1 = YES

Q2. How many Skills/Apps (downloaded additional functionality) have you configured in your voice controlled device?

- I haven't configured any Skills/Apps for my device
- 1 – 2
- 3 – 5
- 6 – 10
- 11+

IF Q1 = YES

Q3. On average, how many gym classes do you attend in a month?

- I don't attend classes
- 1 – 2
- 3 – 5
- 6 – 10
- 11+

IF Q3 = ATTENDS CLASSES

Q4. Typically, do you book the same types of classes (e.g. Spin/ Aqua) each week?

- Yes I book the same classes each week
- I book most of the same classes each week
- I don't book regular classes, they change most weeks

- I don't book any classes

IF Q3 = ATTENDS CLASSES

Q5. How likely would you be to use a Skill/App (downloaded additional functionality) to book Nuffield Health gym classes via your voice controlled device?

- Very likely
- Quite likely
- Neither likely nor unlikely
- Quite unlikely
- Very unlikely

Q6. Aside from booking classes, what else would you like to be able to do with Nuffield Health via your voice controlled device?

OPEN END

Survey Results

Site	Region	Joined	Member type	Do you currently own an Amazon Echo or Google Home device?	How many Skills/Apps (downloaded additional functionality) have you configured in your voice controlled device?	On average, how many gym classes do you attend in a month?	Typically, do you book the same types of classes (e.g. Spin/ Aqua) each week?	How likely would you be to use a Skill/App (downloaded additional functionality) to book classes via your voice controlled device?
1								
2	Battersea	London	01-04-17	Fitness	No and I don't plan to purchase one			
3	Battersea	London	19-11-16	Fitness	No and I don't plan to purchase one			
4	Battersea	London	15-04-15	Fitness	Yes, I own an Amazon Echo	6 – 10		
5	Battersea	London	01-12-08	Fitness	No but I plan to purchase an Amazon Echo		I don't attend classes	
6	Battersea	London	21-07-17	Fitness	No and I don't plan to purchase one			
7	Battersea	London	20-01-17	Fitness	No but I plan to purchase a Google Home			
8	Battersea	London	01-04-17	Fitness	No and I don't plan to purchase one			
9	Battersea	London	01-08-16	Fitness	No and I don't plan to purchase one			
10	Battersea	London	21-03-17	Fitness	No and I don't plan to purchase one			
11	Battersea	London	01-06-10	Fitness	No and I don't plan to purchase one			
12	Battersea	London	05-05-11	Fitness	No and I don't plan to purchase one			
13	Battersea	London	01-10-14	Fitness	No and I don't plan to purchase one			
14	Battersea	London	01-09-14	Fitness	No but I plan to purchase an Amazon Echo			
15	Battersea	London	07-02-15	Fitness	No and I don't plan to purchase one			
16	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
17	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
18	Wandsworth	London	01-12-16	Wellbeing	No and I don't plan to purchase one			
19	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
20	Wandsworth	London	01-07-14	Wellbeing	No and I don't plan to purchase one			
21	Wandsworth	London	14-07-17	Wellbeing	No and I don't plan to purchase one			
22	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
23	Wandsworth	London	01-06-10	Wellbeing	No and I don't plan to purchase one			
24	Wandsworth	London	01-12-08	Wellbeing	No and I don't plan to purchase one			
25	Wandsworth	London	02-04-17	Wellbeing	No and I don't plan to purchase one			
26	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
27	Wandsworth	London	20-07-09	Wellbeing	No and I don't plan to purchase one			
28	Wandsworth	London	21-07-16	Wellbeing	Yes, I own an Amazon Echo	3 – 5		
29	Wandsworth	London	21-03-15	Wellbeing	No and I don't plan to purchase one			
30	Wandsworth	London	05-03-16	Wellbeing	No but I plan to purchase an Amazon Echo			
31	Wandsworth	London	01-01-14	Wellbeing	No and I don't plan to purchase one			
32	Wandsworth	London	01-01-15	Wellbeing	Yes, I own a Google Home	I haven't configured any Skills/Apps for my device	3 – 5	Yes I book the same classes each week
33	Wandsworth	London	04-06-15	Wellbeing	No and I don't plan to purchase one			Neither
34	Wandsworth	London	25-06-17	Wellbeing	No and I don't plan to purchase one			
35	Wandsworth	London	13-01-16	Wellbeing	No and I don't plan to purchase one			
36	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
37	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
38	Wandsworth	London	01-01-14	Wellbeing	No and I don't plan to purchase one			
39	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
40	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
41	Wandsworth	London	01-01-14	Wellbeing	No and I don't plan to purchase one			
42	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
43	Wandsworth	London	29-10-16	Wellbeing	No and I don't plan to purchase one			
44	Wandsworth	London	01-01-15	Wellbeing	No and I don't plan to purchase one			
45	Wandsworth	London	12-11-16	Wellbeing	No and I don't plan to purchase one			

Survey Analysis

- It looks like the majority aren't planning to purchase one, but about 200 are planning to purchase it, and 300 owns an Amazon Echo already.
- It appears that quite a lot of people book the same or mostly the same classes each week too.
- About 150 are likely to use Alexa/app to make bookings.