

XPIRE: ASDA STOCKING SUPPORT SYSTEM

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INTRODUCTION

This project is being completed on behalf of ASDA. ASDA is one of the four largest supermarkets in the UK stocking a variety of goods including fresh, frozen and ambient food goods as well as many other items. I am currently employed by ASDA as an Application Developer.

PROBLEM STATEMENT

At the moment sustainability and environmental responsibility are very prevalent in our day to day lives.

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\$984bn

in economic losses globally per year,
due to food loss and waste *

>£19bn

worth of food waste in the UK
annually *

86%

UK rivers do not meet good ecological
status

Figure: WRAP Food Waste Data [3]

PROBLEM STATEMENT W.R.T ASDA

How does this impact ASDA?

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How does this impact ASDA?

Food Surplus Tonnage by route	2018
Anaerobic digestion (to generate energy)	29,257
Energy Recovery*	1,088
Animal Feed	42
Donation	1,134
Liquidation	119
Customer giveaways	243
Total	31,883

Figure: ASDA 2018 Food Waste Data [1]

SOLUTION

The solution that I am planning on implementing will include:

- An system which is capable of accessing ASDA stock data and informing colleagues what items are going out of stock.
- The solution will allow colleagues access from multiple device types including mobile and desktop computers
- Provide colleagues in the Fresh, Dairy and chilled produce departments adequate notice that stock expiry is approaching so they can decide which actions to take.

WHY HAVE I DECIDED TO TARGET SPECIFIC GROUPS?

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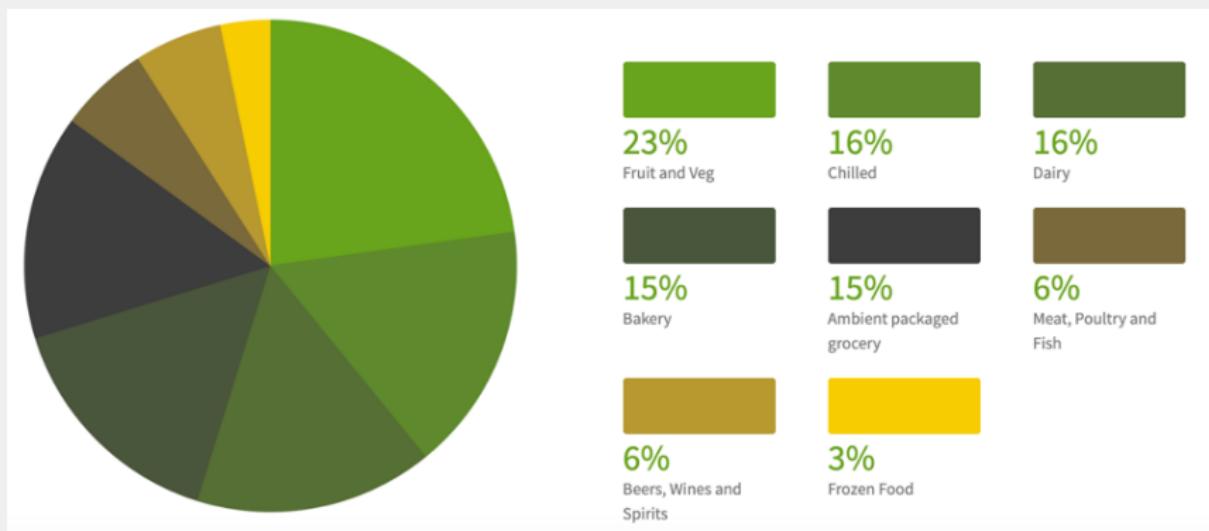
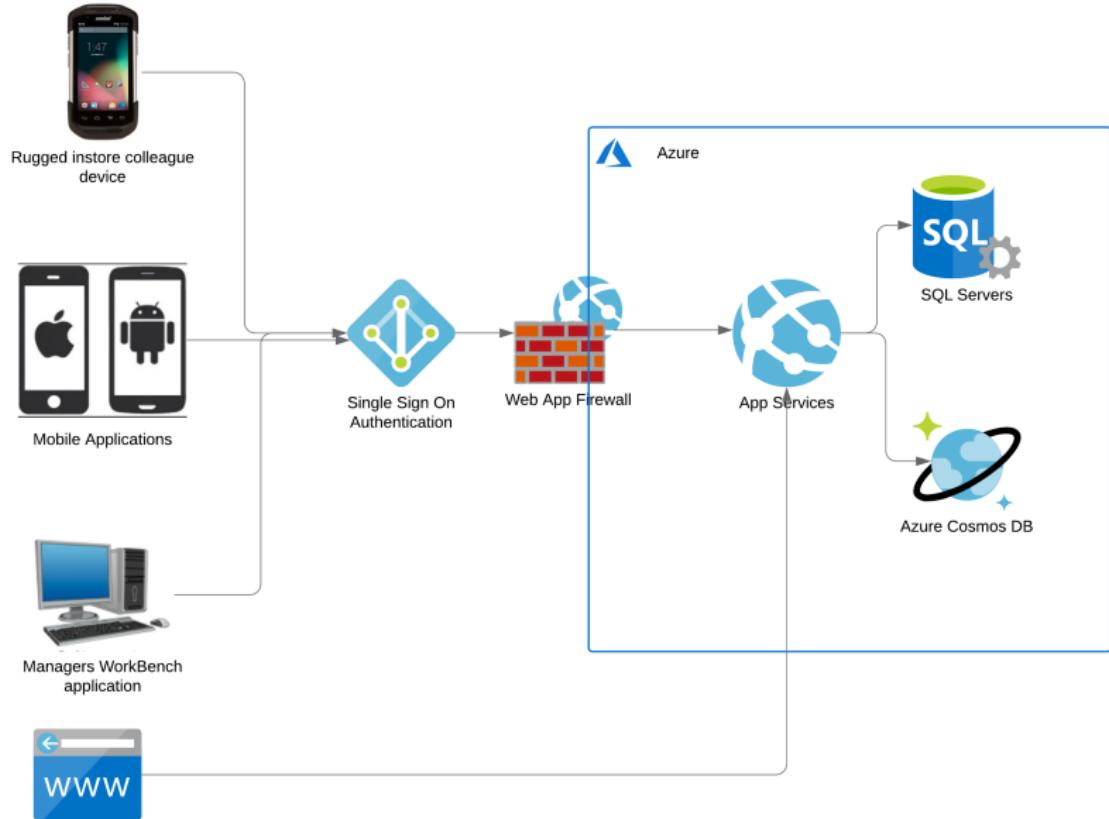


Figure: ASDA 2018 Food Waste by Department [1]

PROPOSED ARCHITECTURE



PROPOSED PLAN

Item No	Project Milestone	June				July				
		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
1	Research									
2	Synopsis									
3	UI Design									
4	Development Sprints									
5	Testing									
6	Demo									
7	Write Up									
8	Dissertation Proof Read and finalisation									

Figure: *

Xpire Project Gannt Chart June - July

PROPOSED PLAN

Item No	Project Milestone	August					September		
		Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17
1	Research								
2	Synopsis								
3	UI Design								
4	Development Sprints								
5	Testing								
6	Demo								
7	Write Up								
8	Dissertation Proof Read and finalisation								

Figure: *

Xpire Project Gannt Chart August - September

AGILE DEVELOPMENT



Figure: Agile Development Lifecycle[2]

CI / CD

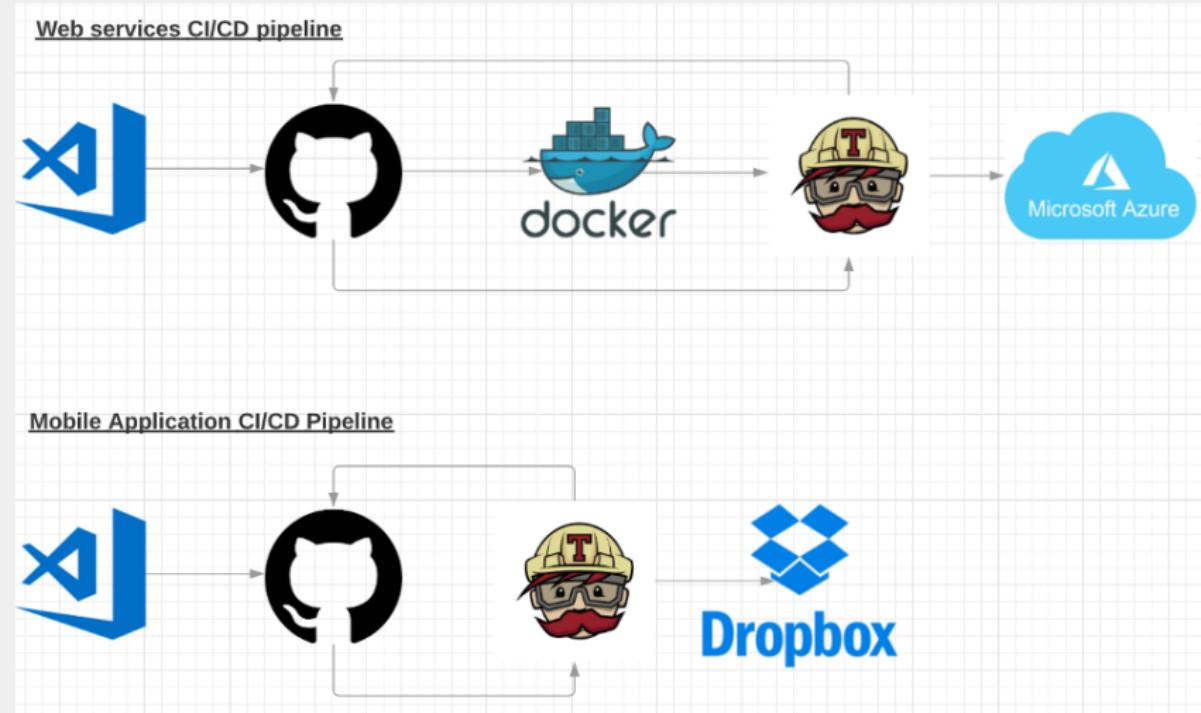


Figure: Continuous Integration Flow

EVALUATION

How will I assess success

I plan on assessing the success of my project in 2 ways.

- Via feedback from stores and colleagues within ASDA Head Office
- I am hoping for an in store Proof Of concept which will then allow me to gather and compare waste data from prior to my application being installed in a store against waste data whilst the application is being used in the store.

THANK YOU FOR YOUR TIME!
QUESTIONS?

REFERENCES



ASDA.

ASDA FOOD WASTE DATA, 2019.



JAVA T POINT.

AGILE DEVELOPMENT MODEL, 2020.



WRAP.

WRAP: FOOD AND DRINK, 2020.