

DALHOUSIE UNIVERSITY

FACULTY OF ENGINEERING Department of Industrial Engineering

1. Problem Definition & Requirements

 Stone Hearth Bakery's current traceability system relies on invoices. If a recall were to take place, all products made on a specific date would be recalled. The company requires a more thorough system to start shipping products outside of Nova Scotia. 	
	Canadian Food Inspection Agency (CFIA)'s guidelines:
<u>1</u>	Document the ingredients a product was made of, their supplier's information, lot codes and date received
<u>2</u>	Document the product's supplied to a customer, its information and date of delivery
<u>3</u>	Keep all records for 2 years.
<u>4</u>	Provide documents to the CFIA upon request within 24 hours
Requirements provided by Metroworks:	
<u>5</u>	Cloud-based software
<u>6</u>	Cross-platform software

2. Project Scope

- Develop a CFIA-compliant traceability system for the Kosher and Non-Kosher processes
- B Train employees who will be using the solution

3. Initial Conditions



Fig. 1 Printed invoices



Fig.2 Kosher Storage

Lack of a standardized method to track which ingredients were used to fulfill a customer's order.

Disorganized storage. No clear distinction between unopened ingredients and refill bins.



Developing and Implementing a CFIA-Compliant Traceability System Christian Pozo, Claudia Torres, Nikita Wambyakaley, Success Wokili







6. Definitions

Kosher: used to describe foods that meet a strict dietary standard of traditional Jewish law. E.g., meat and non-dairy products are prohibited, except eggs.

Non-Kosher: where biscuits and desserts are baked.

Cloud-based: allows users to access software applications that run on shared computing resources via the Internet.

Cross-platform: system that can work across multiple types of

7. Quick facts

54 different recipes entered into the system

67 different finished products being tracked

29 user-friendly application interfaces developed

8. Conclusion

5S layout has optimized the space available, improved process efficiencies and created a bigger storage capacity. The developed application makes the recall process accurate,

9.Recommendations

Implement inventory management methodologies into the system including EOQ analysis, reordering points, and

Improve the app's shipping process by creating a step where employees can draft multiple orders at the same

Implement more scanning features to streamline

10.References

Techopedia. (2013, July 09). What is cross platform? - definition from Techopedia. Retrieved March 31, 2021, from https://www.techopedia.com/definition/17056/cross-platform Hill. A. (2019, January 25). Kosher Food: Everything You Need to Know [Blog Post]. Retrieved from https://www.healthline.com/nutrition/what-is-kosher

11.Acknowledgments

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