

# Food Safety Website

(Mobile Friendly)

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CS 4624: Multimedia, Hypertext, and Information Access  
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Virginia Tech, Blacksburg, VA 24061  
April 28, 2020

# Outline

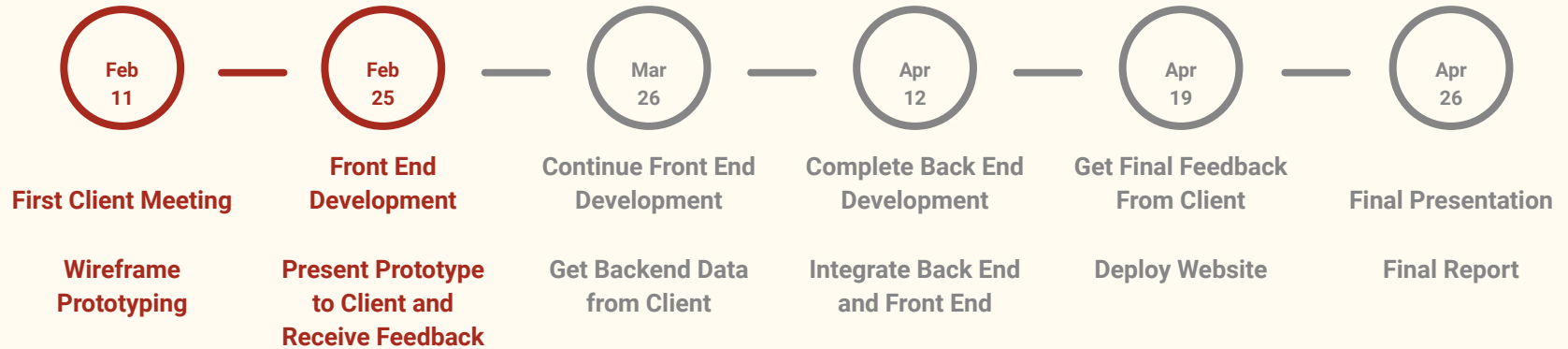
- Overview
- Timeline
- Project Design
- Deliverables
- Problems Faced
- Lessons Learned
- Future Ideas
- Acknowledgements
- References

# Overview

- User based web/mobile application
  - Helps navigate changing legislation for farmers
- Helping farmers identify produce safety regulation
  - Site uses info in accordance with FDA, CDC, and VA Cooperative Extension
- Website Includes:
  - Seven internal web pages
  - Internal user-client created by our team
  - FAQ page to help farmers with information
  - External links to FDA produce requirements
  - CDC food recall updates
  - Surveys to provide essential information to users



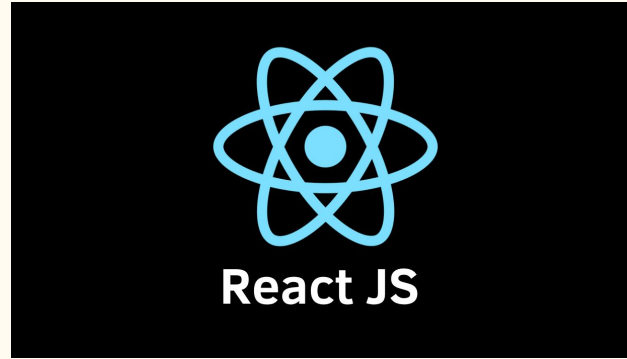
# Timeline



# Project Design - Front End

Developed using:

- Node.js
- React
- HTML
- CSS



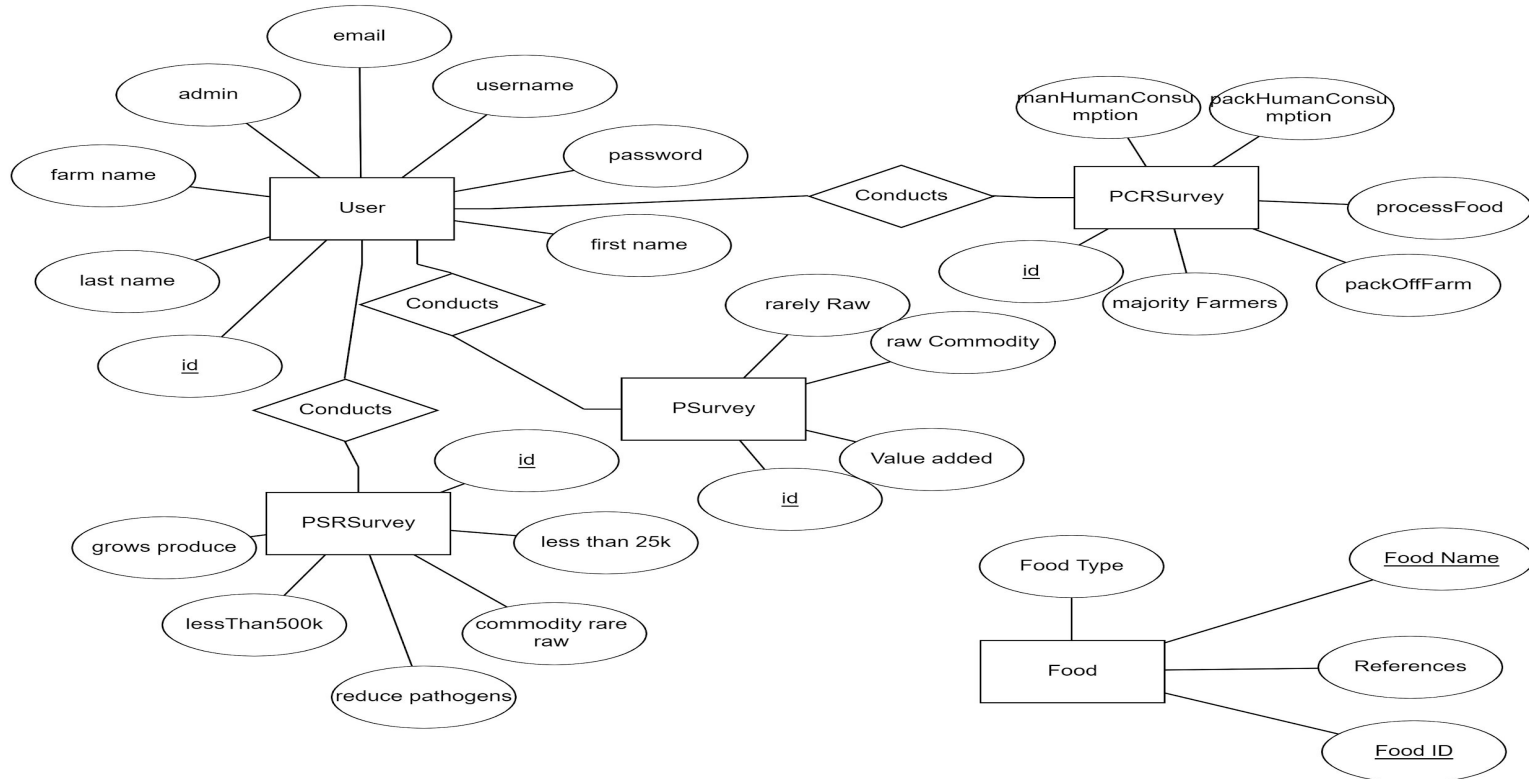
**CSS**



**HTML**



# Project Design - Backend



# Deliverables



## Food Safety FAQ

Our site contains a "Frequently Asked Questions" section regarding the new Produce Safety Regulations, as well as Preventive Control Measures. General questions about what these regulations are, as well as how they affect users as farmers and/or farmers market vendors.



## Custom Profiles

Our site features custom profiles for users to have a personalized experience. By completing a questionnaire, we are able to determine whether or not users fall under the new produce and safety regulations, based on various characteristics of their farm and produce.



## Real Time Notifications

We want to ensure that our users receive news and updates regarding produce and safety regulations. With real-time notifications, users are able to immediately read and understand new changes that may affect their farm and produce.



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# Problems Faced

- Delay in receiving data
  - Back end data stall resulted in reduced timeline for implementation
- Deployment issues
  - VM issues related to hosting our application
- COVID-19 related issues (changes in timeline, communication, etc.)
  - Working remotely made implementation slower
  - Other issues lead to our project timeline changes/delays
  - Communication became more difficult



# Lessons Learned

- Working with a direct customer/client
  - Important to keep maximum contact throughout
  - Client reported to higher authority making expectations skewed
- Evolving client requirements/wants
  - Expectations on deliverables kept evolving
- Managing team dynamics

# Future Ideas

- Real Time Notification System
- Add additional information and expand on the survey to include other food safety information outside of the Produce Safety Rule and Preventive Controls for Human Food Rule

# Acknowledgements



Client: Minh Duong  
Doctoral Student in Food, Science & Technology



Professor Edward Fox  
Department of Computer Science

# References

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Questions?

