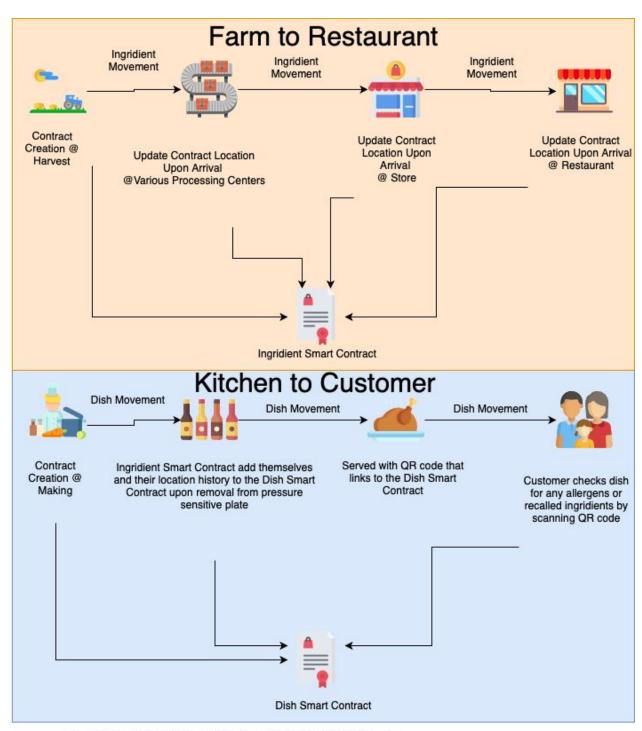
# PROJECT 3: Food Allergy Tracking Blockchain Decentralized Application

Wei Cheng Guo Jasmeet Kaur Chawla

### Abstract:

Allergic reactions hurt the most vulnerable people in our population. Many restaurants do not have correctly trained staff to prevent this easily preventable cause of death. It is the perfect choice to use smart contracts to track how numerous potential allergens would interact and track the progress of all the individual ingredients literally from farm to table. There are two stages of ingredient tracking. The first stage tracks the individual ingredients from harvest to their arrival at the supermarket. The second stage tracks the ingredients as they are being added into the dish. The customer would then be able to look up the dish's smart contract using QR code and see if there are any allergens or problematic ingredients that have been recalled to ensure a safe dining experience.

## Use Case Diagram:



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## Pseudo Code:

#### Food Product:

Ø Contract Creation at Harvest

Ø Update Product Location on arrival at various Processing Locations and Stores

Ø Update Product Location at arrival at Restaurant.

#### Menu Item:

Ø Contract Creation at Stove

Ø Displays all ingredients' locations once accessed

Ingredients Hub(Doesn't need to be a smart contract):

Ø Weight Sensitive Plates Contains Ingredients

Ø Add ingredient and its location to current Dish Contract upon removal