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Project Summary

Our team aims at providing an interactive platform in which users can receive personalized food recipe recommendations which fulfill their daily nutritious requirements. Our platform allows users to look for suggestions on either one single dish or the entire meal. Our platform will factor both the user preferences and daily nutritional needs to offer an optimized recommendation.

Basic Features & User Flow
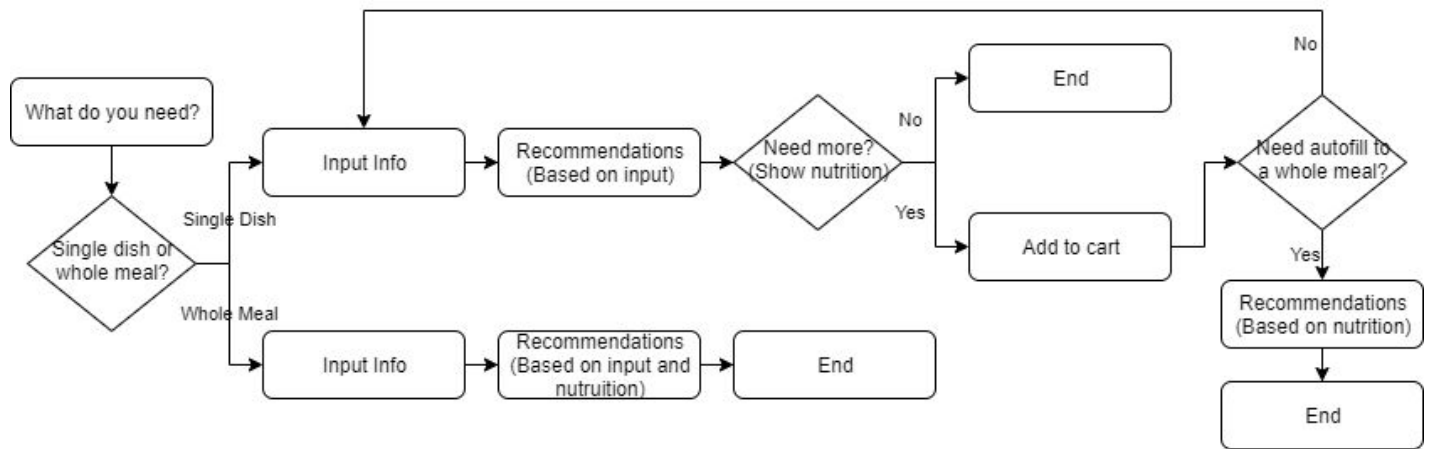
User Inputs

Note: "xx" means that users can choose certain requirements to be included either in one single dish of a meal or every dish of that meal.

Category	Subcategory	Example	Single dish	Whole meal
Basic information	Budget	<$10 per person	x	x
	Time	<30min	x	x
Ingredients	General	Vegetables, seafood	x	xx
	Specific ingredients	Broccoli, cod	x	xx
	Condiments	Soy sauce, ketchup	x	xx
Method of cooking	Kitchenware	Microwave oven, skillet	x	xx
	General methods	Roasting, grilling	x	xx
Dishes	General descriptions	Steak, Fried Chicken	x	
	Specific requirements	Medium rare fillet mignon,	x	

		buttermilk deep fried chicken wings		
Nutrition	Nutritional needs	High protein, low fat	x	x
	Detailed cutoffs	Sugar < 20g	x	x
Others	Atmosphere	Casual, fine dining	x	x
	Special occasions	Thanksgiving, birthday	x	x
	Dietary restrictions	Gluten-free	x	x

Preliminary Advanced Features

- Our Favourites: Users can mark certain dishes and meals to be their favourite.
- Recently Viewed
- Recent Search
- Surprise Me: Randomly present single dishes or whole meals
- Dislike: Blacklist
- Community: Post images or video clips of food users make; follow accounts
- Feeds: Individualized content feeds (recipes and KOL's posts)
- Food Rank: Low GI fruits, low cal food
- Shopping: We sell diet meal, kitchen food scale

Data Sources

Source	Website	Purpose
U.S. Department of Agriculture, Agricultural Research Service	https://fdc.nal.usda.gov/	Ingredients, nutrition, dietary guidelines
Allrecipes.com	https://www.allrecipes.com/recipes/	Recipe based on food input
Foodnetwork.com	https://www.foodnetwork.com/recipes	Recipe based on food input

Timeline

Week 4 - Proposal and Presentation

Week 5 - Writing web-crawler and conducting initial data collection

Week 6 - Programming basic backend, analytical functions

Week 7 - Designing user interface
Week 8 - Testing Backend and User Interface
Week 9 - Adding Advanced Features based on Project Progress
Week 10 - Finalize Program + Final Presentation
Final Week - Project DUE