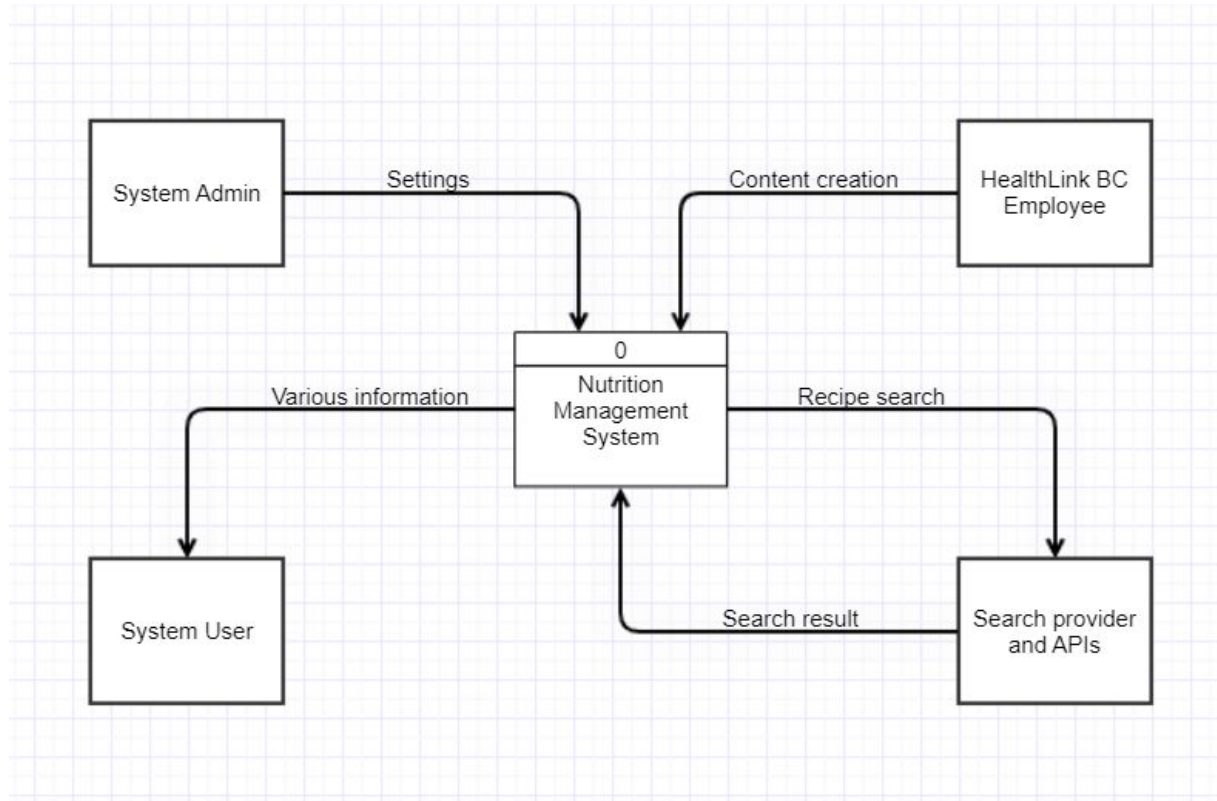


Process Model

Samarth Roy

System Context Diagram



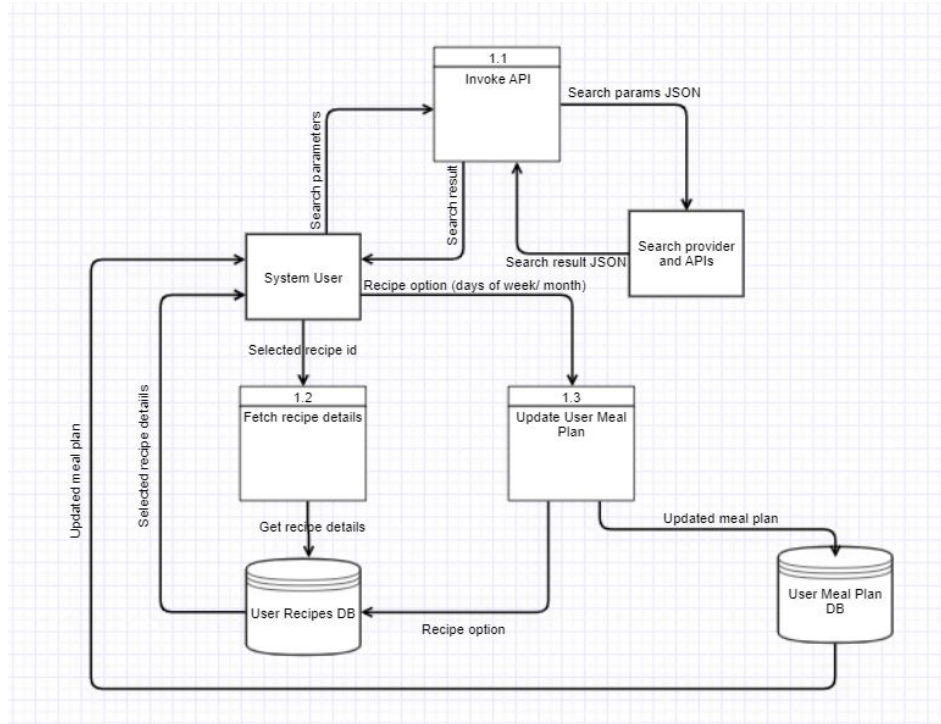
Search recipe

In the nutrition management system, the 'search recipe' function will enable users to enter search terms and get recipe recommendations based on their profile preference details. Recipes are sourced from an API and are validated against user profile preferences to filter out the ones a user is most likely interested in.

These filtered set of recipes are displayed to user. Now, the user is free to select one or more of them to be added to their meal plan.

Users have the ability to add recipes to the plan based on a day-of-week, or a day-of-month scheme.

Search Recipe - DFD

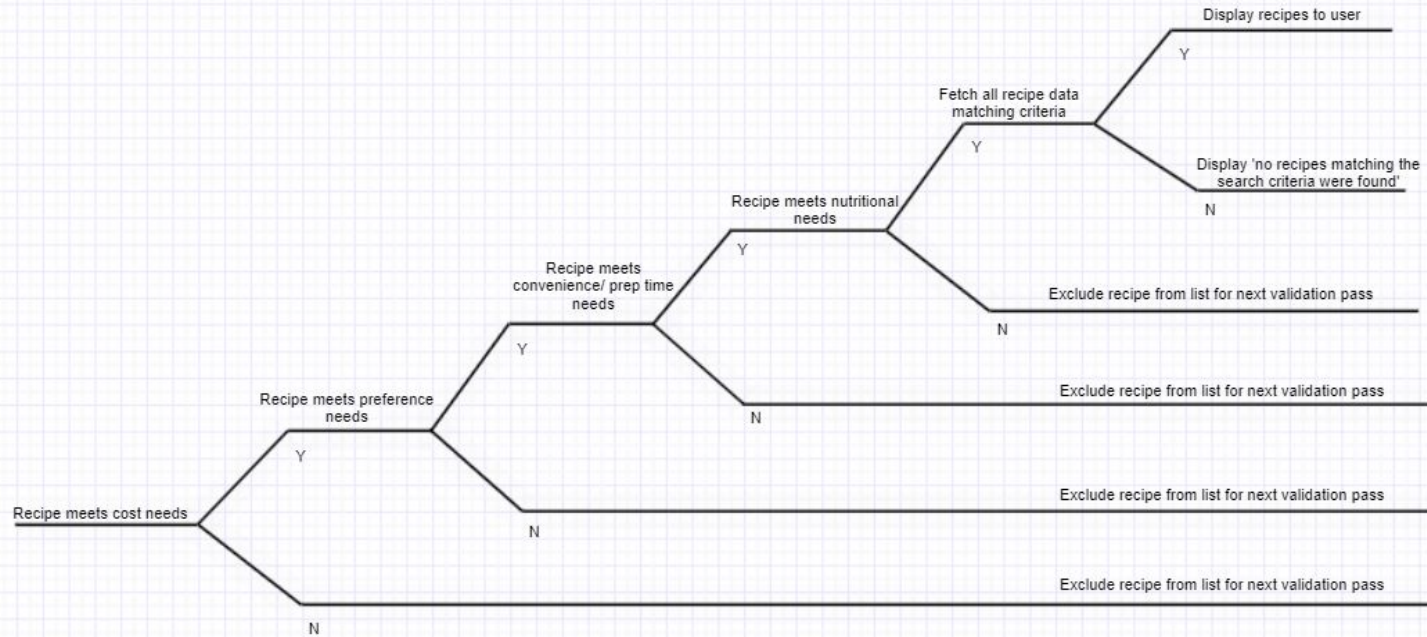


Search and add recipe to user's meal plan

Search Recipe - Decision Table

Condition	Rule 1	Rule 2	Rule 3	Rule 4	Rule 5
Recipe meets all needs	F	F	F	F	T
Recipe meets nutritional requirements (Calories, nutrient composition)	F	F	F	T	
Recipe meets convenience requirements (Prep time, cooking time, etc)	F	F	T		
Recipe meets all user preferences (likes, dietary restrictions, allergies)	F	T			
Recipe meets cost needs	T				
Outcome					
Display searched and filtered recipes to user					X

Search Recipe - Decision Tree



Add preferences

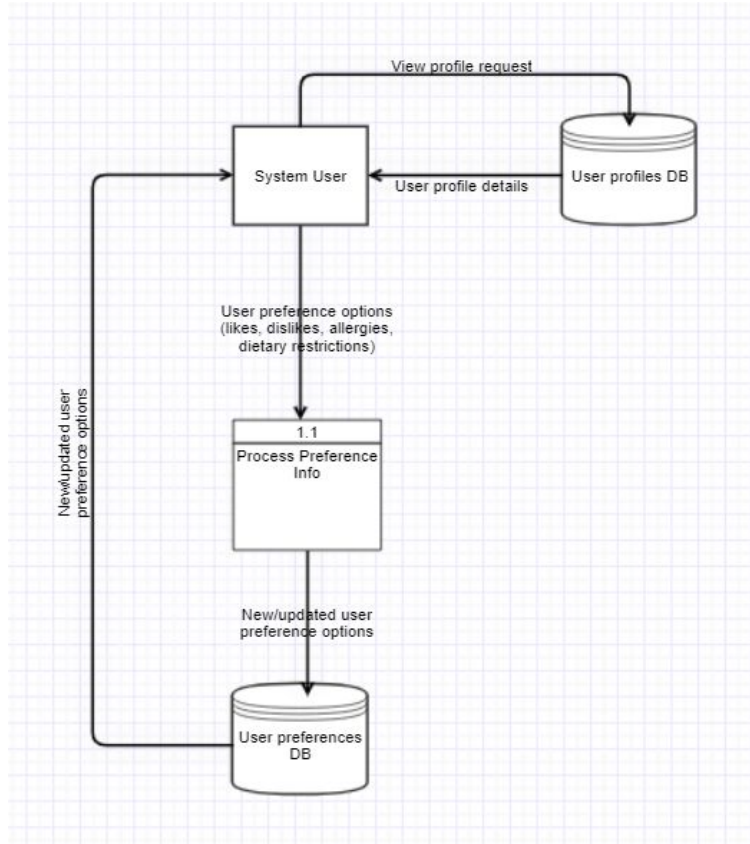
In the nutrition management system, the 'add preferences' function will enable users to add detailed preferences to their personal profile. They will have the option of entering preferences such as dietary restrictions, allergies, likes, and dislikes.

Users have the ability to add these preferences on their personal profile page. All types of preferences will be optional.

If a user has preferences listed on their account, any searches and recommendations to them will yield results while keeping the preferences in consideration.

Preference 'rules' are hard and fast as a user should not be recommended something that is not good for their health, or for that matter something they dislike.

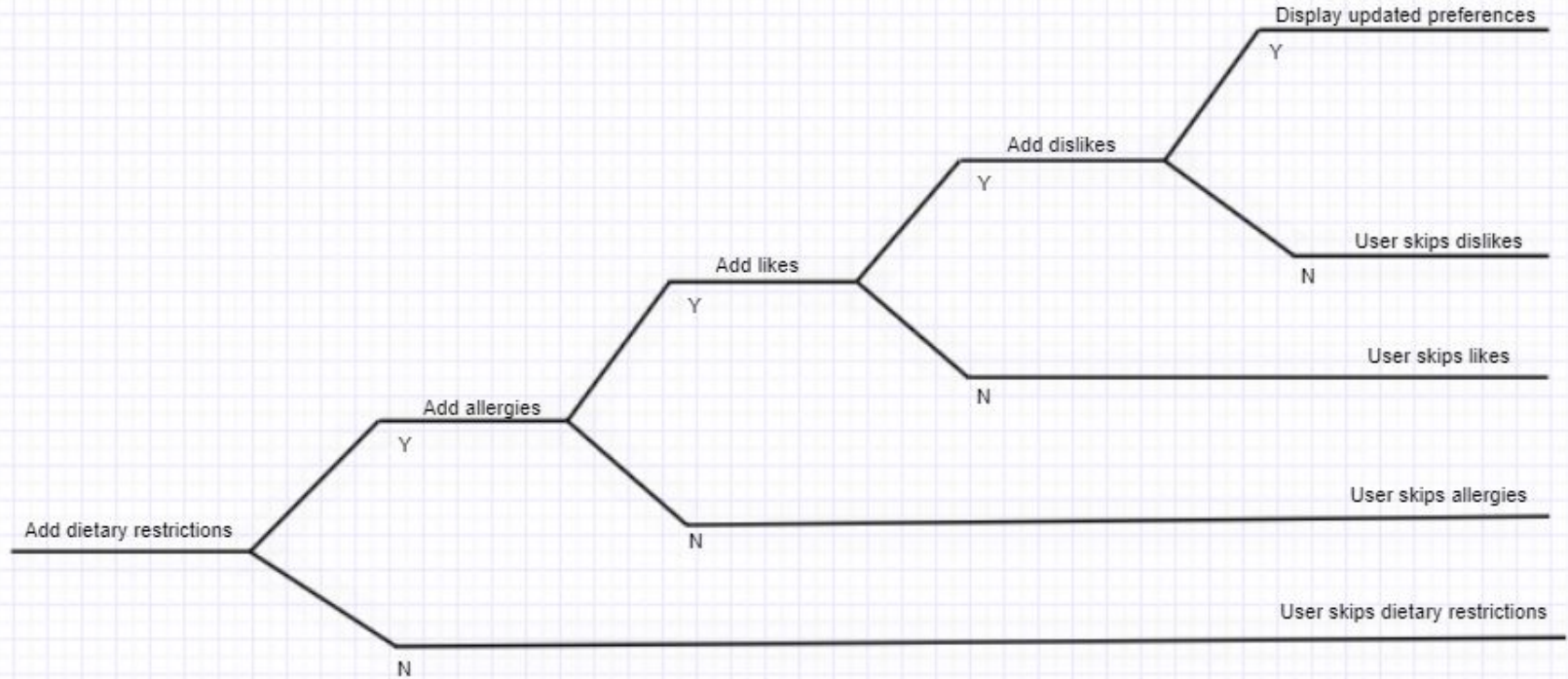
Add preferences - DFD



Add preferences - Decision Table

Condition	Rule 1	Rule 2	Rule 3	Rule 4
Add dietary restrictions	T	T	T	T
Add allergies		T	T	T
Add likes			T	T
Add dislikes				T
Outcome				
Skip dietary restrictions section				
Skip allergies section	X			
Skip likes section	X	X		
Skip dislikes section	X	X	X	
Display updated user preferences	X	X	X	X

Add preferences - Decision Tree



Thank you