Section B: Problem Analysis

Classes	Attributes	Method
UserInfo	- Name - Age - Gender - phone number - email	- displayInfo()
MedHistory	- exist disease - medicine - allergic	
Symptoms	- Fever - Cough - Sore Throat - Nausea and vomiting - Watery stool - Diarrhea - Muscle pain - Cough up blood - Chest pain - Redness - Red spot - Swelling - Blister - Headache - Neck pain - Stuffy nose - Shortness of breath - Rapid breathing	
Disease	- Diarrhea - Malaria - common cold - TB - Pneumonia - Influenza - Cellulitis - Chicken Pox - Migraine - Food Poisoning - Asthma	- getDisease() - setDisease() - displayDisease()
Suggestions	- Suggested_Medicine - Nutritional_Advice - Clinic	- description() - getDescription() - display()
Suggested_Medicine	- medicine - duration	- display()
Nutritional_Advice	- mealSuggest	- display()

	- mealAvoid	
Clinic	- state - stateName - clinicName - availability - clinic_number	- display()

Associations

Composition	**Aggregation**
UserInfo and MedHistory	Symptoms and Disease
Both classes are highly dependent on each other, if another user is using the system, the medical history of the previous user will be deleted.	One symptom doesn't belong to only one type of disease. For Instance, fever could be a symptom of the common cold but also can be a symptom of chicken pox. Therefore, aggregation is suitable for this relationship.

Inheritance

Parent class	**Child classes**
Suggestions	- Suggested_Medicine - Nutritional_Advice - Clinic
All three classes in the child class provide the suggested treatment plan for the user and all three have the same attributes for the disease name to suggest the treatment plan.	