

# A Rule Based System for Anticipating Chronic and Inflammatory Ailments Based on Symptoms

**Artificial Intelligence Lab: CSE 714** 

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### **Outline**

- Problem Statement
- ☐ Aims and Objectives
- ☐ Queries we've considered
- ☐ Core components
- Query Table
- □ Architecture
- Methodology
- Snapshots
- ☐ Future works

### **Problem Statement**

Due to ignorance and lack of understanding, the affected individual cannot recognize all of the signs that indicate that he seems to have a chronic and inflammatory condition.

Health checkups are getting expensive day by day.

Ignorance about the health.

Carelessness in eating.

# Aims and Objective

Promoting knowledge of the inflammatory and chronic illness.

Developing an approachable rule-based framework.

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Assist users in determining whether they have chronic and inflammatory conditions while they are at home.

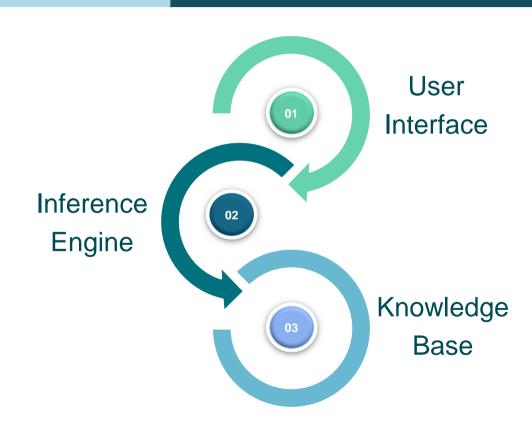


Sharing knowledge with a large population of individuals, whether or not the users have a sickness that is comparable to theirs.

### Queries we've considered



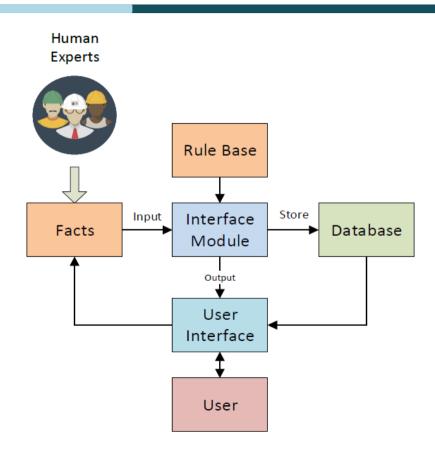
# Core components



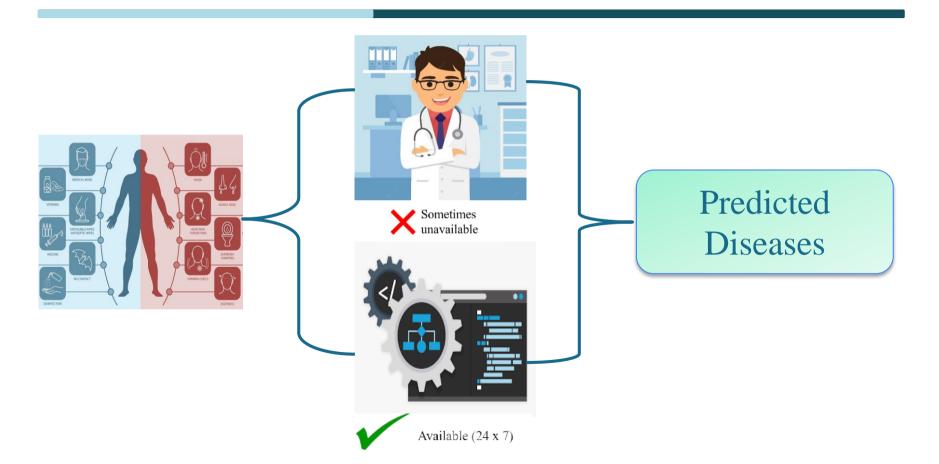
# **Query Table**

Symptom	Jaundice	Malaria
Itching	Y	
Vomiting	Y	Υ
Fatigue	Y	
Weight loss	Y	
High fever	Y	Υ
Dark urine	Y	
Yellowish skin	Y	
Chills		Y
Sweating		Y
nausea		Υ

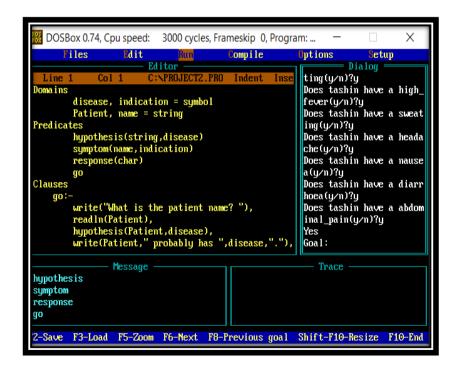
### Architecture

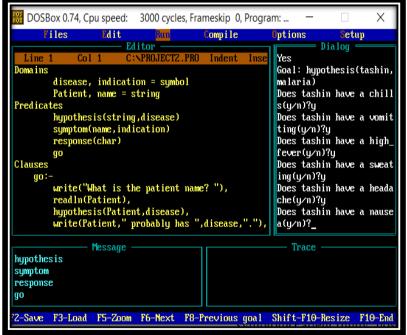


# Methodology



## **Snapshots**





### **Future Work**





Including recommendations for diet and medications



Adding more precise rules and information



Changing the prolog based expert system to ML based system

