Healthcare Expert System

## Rule-Based Diagnosis Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Symptom ↓ / Rule → | R1 | R2 | R3 | R4 | R5 |
| Chest pain | 0 | 0 | 0 | 1 | 0 |
| Cough | 1 | 0 | 0 | 1 | 0 |
| Diarrhea | 0 | 0 | 0 | 0 | 1 |
| Fatigue | 1 | 0 | 0 | 0 | 0 |
| Fever | 1 | 1 | 0 | 0 | 1 |
| Headache | 0 | 0 | 1 | 0 | 0 |
| Joint pain | 0 | 1 | 0 | 0 | 0 |
| Rash | 0 | 1 | 0 | 0 | 0 |
| Sensitivity to light | 0 | 0 | 1 | 0 | 0 |
| Shortness of breath | 0 | 0 | 0 | 1 | 0 |
| Stiff neck | 0 | 0 | 1 | 0 | 0 |
| Vomiting | 0 | 0 | 0 | 0 | 1 |
| Diagnosis | Flu | Dengue | Meningitis | Pneumonia | Food Poisoning |

## Rule-Based Medication Recommendation Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Condition ↓ / Rule → | MR1 | MR2 | MR3 | MR4 | MR5 |
| Disease | Flu | Flu | Dengue | Dengue | Meningitis |
| Age group | adult | child | adult | child | adult |
| Medication | Paracetamol and rest | Children's Tylenol and fluids | Hydration and Acetaminophen | Hydration and Pediatric Paracetamol | Immediate hospitalization and IV antibiotics |