DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Smart Toddlers Disease Prediction

PRESENTED BY:

D NANDITHA
NAVYASHREE M
VARSHINI B N

Under the Guidance
Prof. Abhilash T P

Table of Contents

Symptoms of **congenital heart defects**

Rapid breathing

Pale grey or blue skin color

Swelling the legs or stomach

Tiredness during feedings

Poor weight gain

Introduction

1. Challenge: Parents often struggle to identify baby illnesses early and find safe, reliable treatment options quickly.

2. Solution: This system allows parents to input baby symptoms and receive possible disease predictions with recommended medicines, Ayurvedic remedies, home treatments, and baby care products along with doctor recommendation .

Purpose:
To help parents easily identify possible baby illnesses based on symptoms and provide safe and effective treatment options including medicines, home remedies, and Ayurvedic care.
To guide parents on when to seek medical help, ensuring better baby health and peace of mind.

Signs and Symptoms of Baby Blues:

- Sadness
- Anxiety
- Mood swings
- Crying
- Loss of appetite
- Irritability
- Reduced concentration
- Feeling overwhelmed

Newborn Baby Diseases

Problem Definition

Parents often find it hard to understand their baby's symptoms and decide the right treatment. Without easy access to expert advice, they may delay care or use unsafe remedies. This can lead to worsening health or unnecessary doctor visits. There is a need for a simple system that helps parents quickly identify possible diseases and suggests safe, effective treatments at home.

Objectives and Scope

Objectives:

1. The main objective of this system is to help parents quickly identify possible diseases in their babies by entering symptoms.
2. It aims to provide safe and effective treatment options, combining modern medicines, Ayurvedic remedies, and home care tips, while also guiding parents.

Scope:

1. Covers common baby diseases and symptoms like cough, fever, skin rashes, etc.
2. Includes a database of allopathic medicines, Ayurvedic treatments, home remedies, and baby care products.
3. Designed as a mobile/web app accessible to parents anytime.

Neonatal abstinence syndrome (NAS)

- Tremors
- Irritability
- Poor feeding
- High-pitched cry
- Poor sleep
- Increased muscle tone
- Tachypnea
- Nasal stuffiness
- and more...

Project Methodology

1. Understanding the problem:
Find out what problems parents face when their babies are sick and what information they need to help their babies.

2. Collecting Information:
Gather facts about common baby illnesses, symptoms, medicines, Ayurvedic remedies, and home treatments from trusted sources.

3.Designing the System:
Plan how the app or website will look and work so parents can easily enter symptoms and get advice quickly.

4.Building the System:
Create the part that matches symptoms to possible diseases and suggests treatments. Make sure it works smoothly.

5.Testing the System:
Try out the system with real user and expert to check if it gives correct advice and easy to use.

Implementation Step-by-Step Process:

Collect & Prepare Data: Gather verified information on baby symptoms, diseases, and treatments; clean and organize it for effective use.
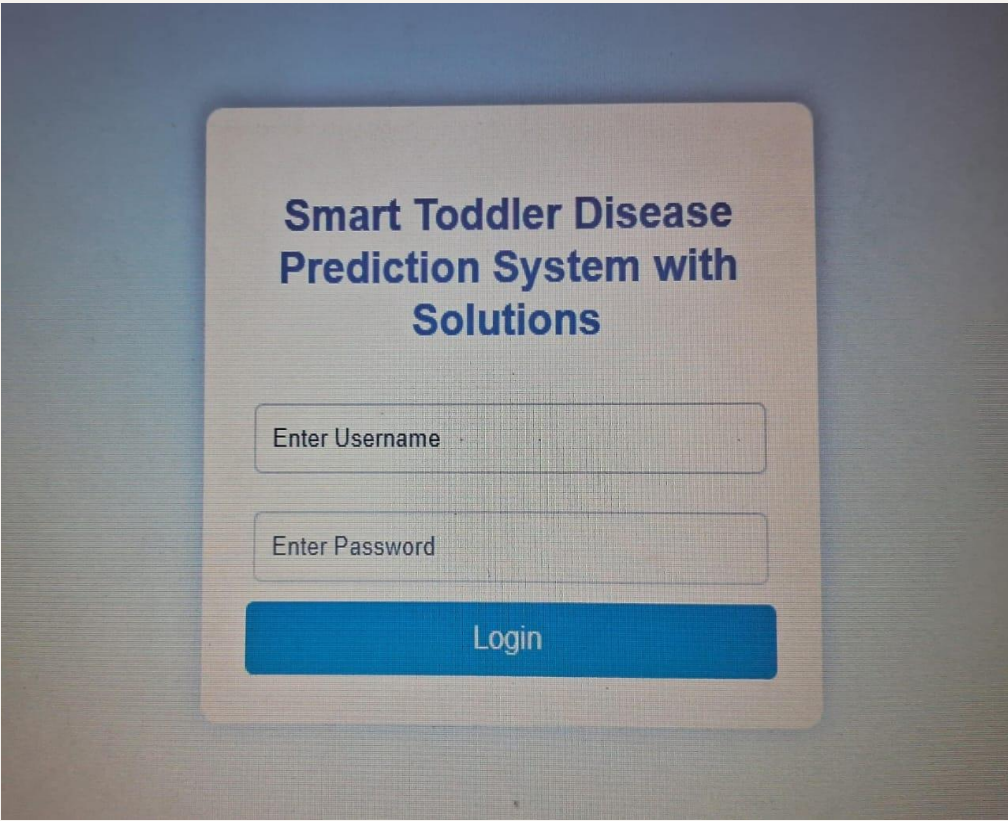
Build User-Friendly Interface: Design a simple app or website where parents can easily input symptoms and get results.

Develop Prediction System: Create an algorithm that accurately matches symptoms to possible diseases using rules or AI models.
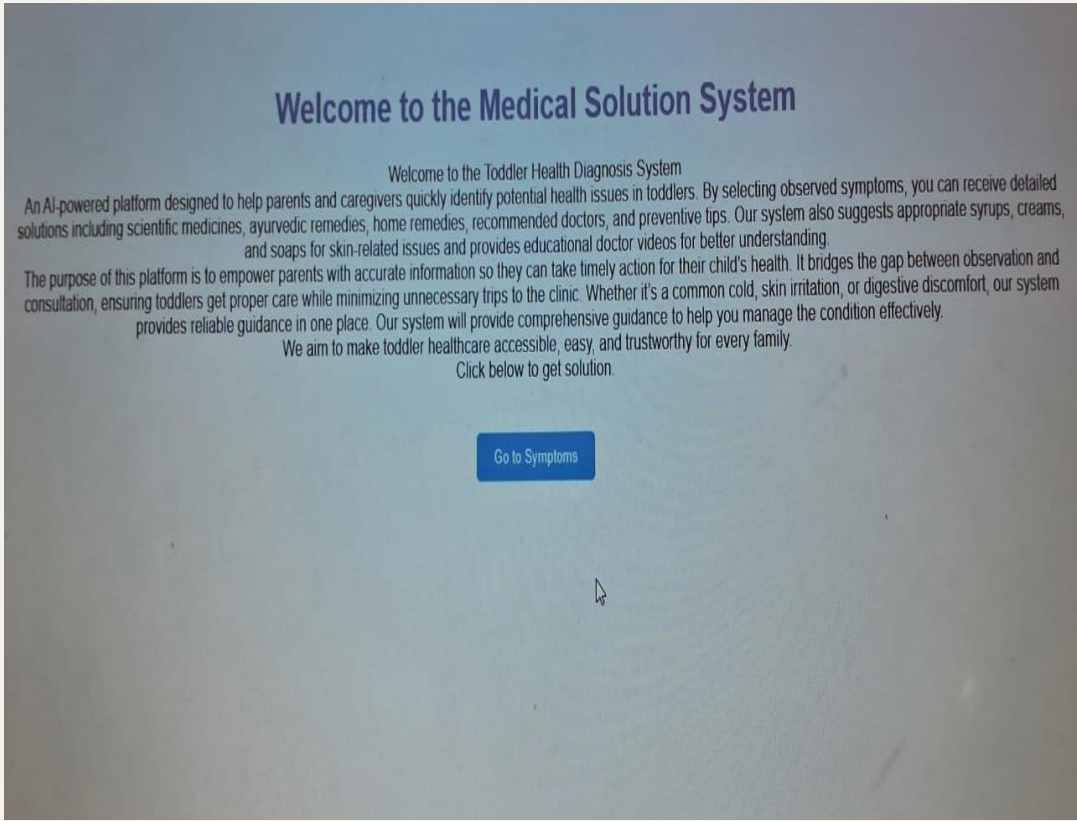
Provide Safe Recommendations: Link disease predictions to suitable medicines, Ayurvedic remedies, and home treatments with clear instructions.

Test & Improve Continuously: Validate accuracy and usability with experts and users, then regularly update the system based on feedback.
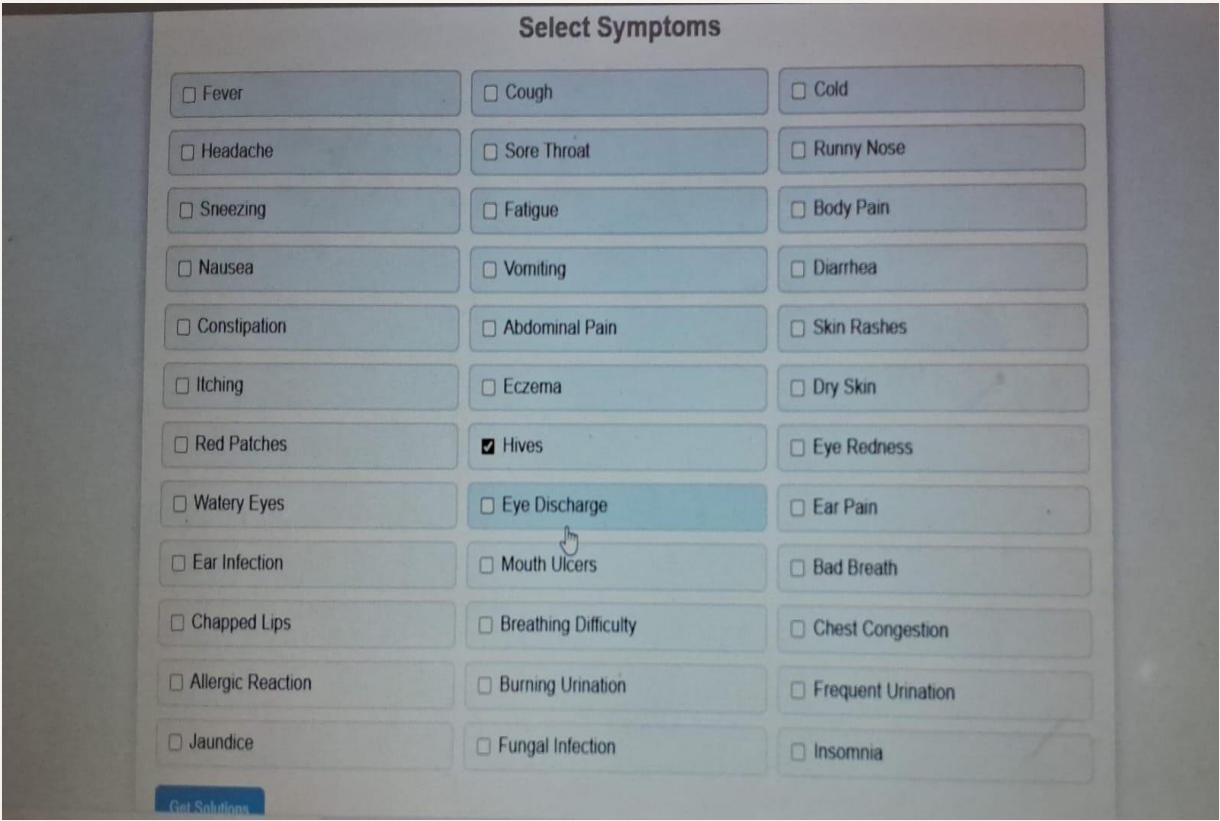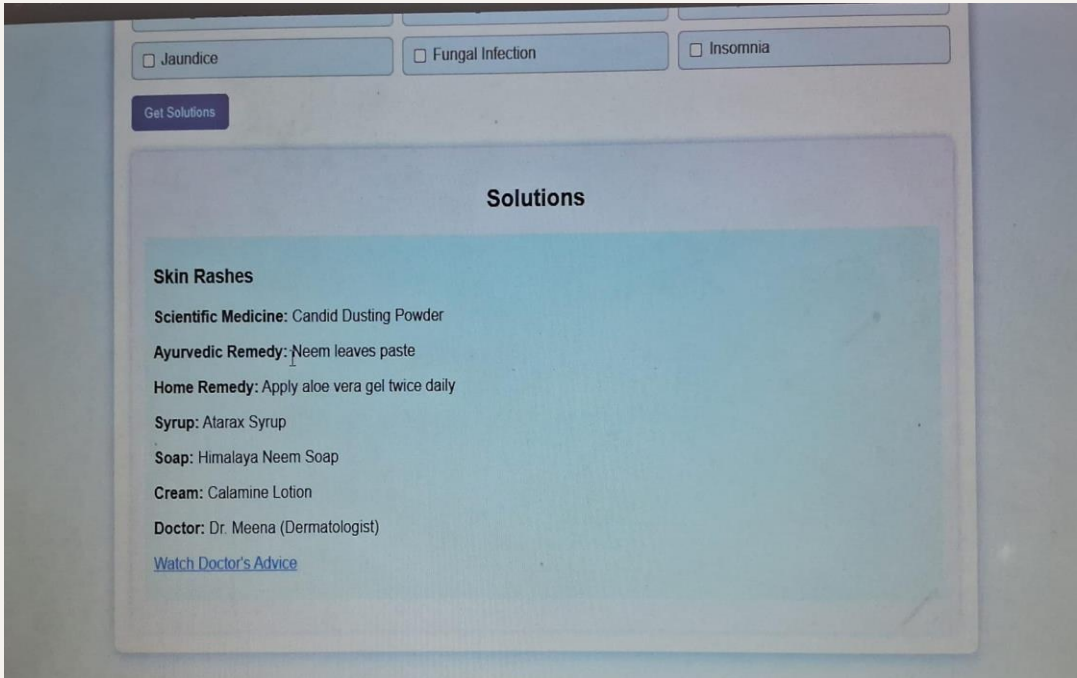
Work Flow

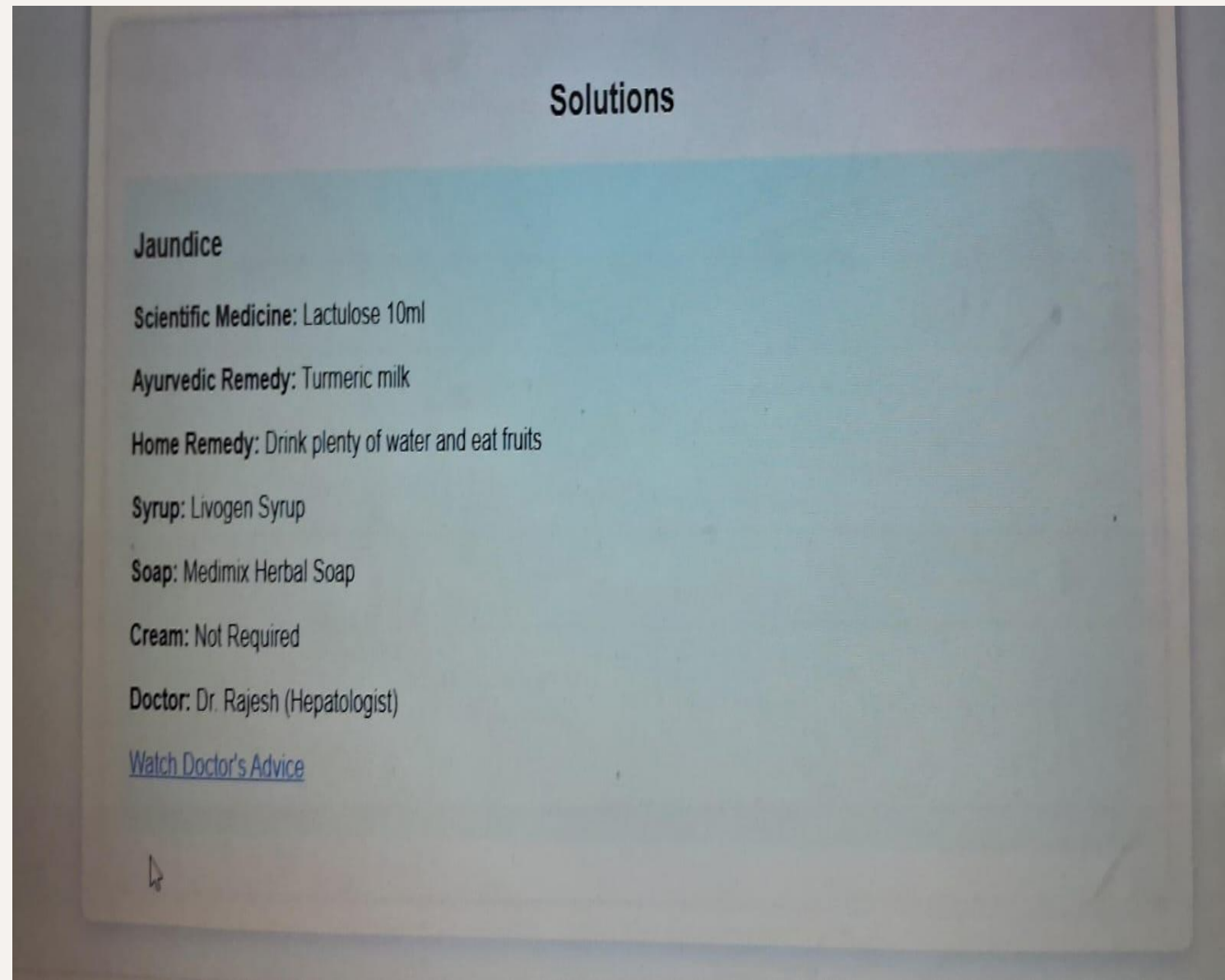Step- 1

Step- 2

Step- 3

Step- 4

Results

Fig. 1.1

The image (fig1.1) shows Jaundice is a condition that occurs when there is too much bilirubin in the blood, which makes the skin and eyes look yellow. It can be treated in different ways such as taking scientific medicines like Liv.52 or Livokas Tonic, ayurvedic remedies like turmeric milk, and home remedies such as drinking plenty of water and eating fresh fruits. Syrups like Livgan can also be helpful, and maintaining a healthy diet supports faster recovery. Consulting a doctor is always important to get the right treatment and avoid further complications.

Results

Solutions

Burning Urination

Scientific Medicine: Ciprofloxacin 500mg

Ayurvedic Remedy: Cranberry juice

Home Remedy: Drink plenty of water

Syrup: Urovit Syrup

Soap: Not Required

Cream: Not Required

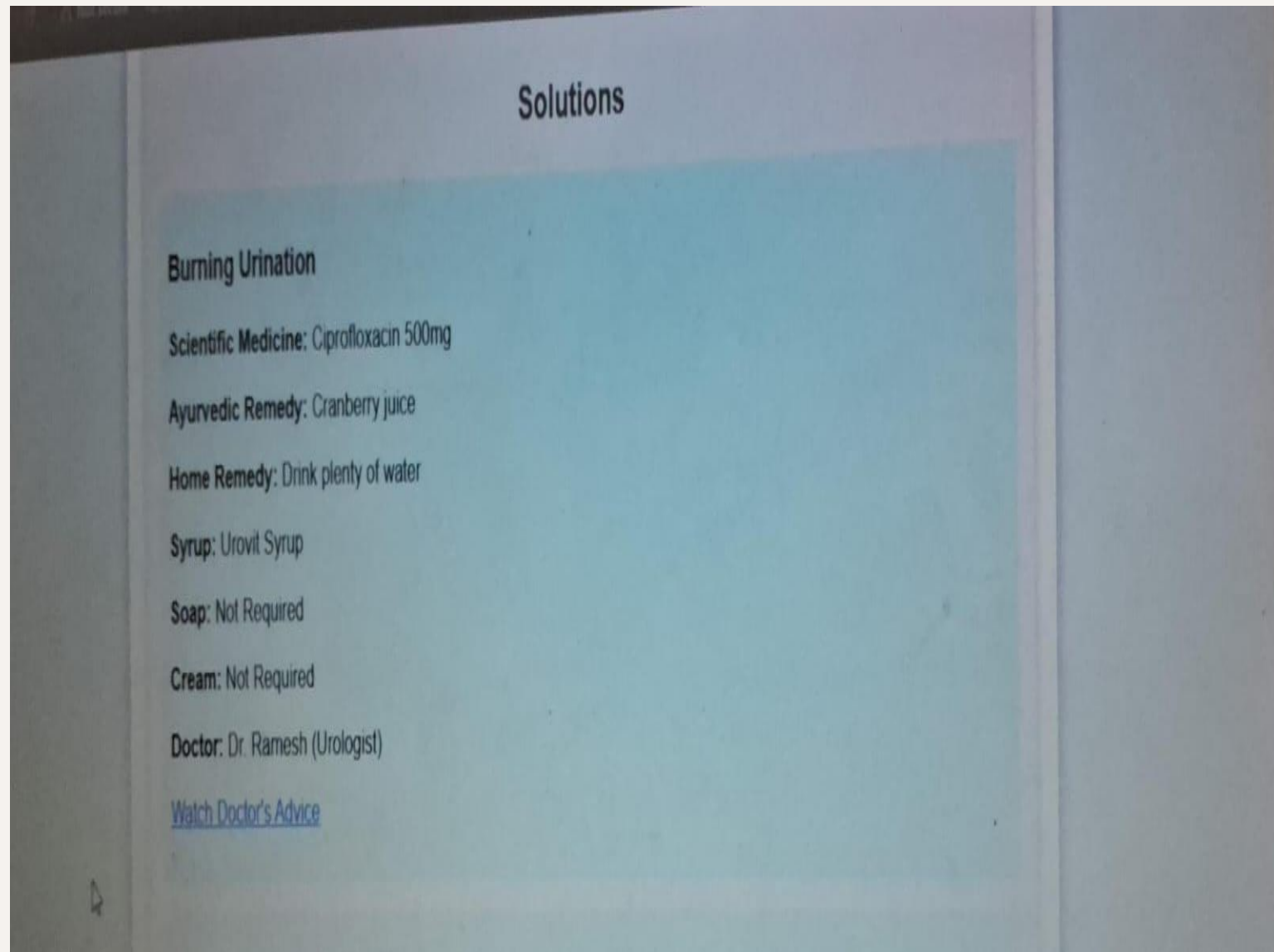**Doctor:** Dr. Ramesh (Urologist)

Watch Doctor's Advice

Fig. 1.2

The image fig(1.2) displays the Burning sensation is one of the common symptoms seen in jaundice, which occurs due to improper functioning of the liver. This discomfort can be managed by taking proper medication such as allopathy, homeopathy, or ayurvedic remedies like turmeric milk. Along with medicines, simple lifestyle changes such as eating a light diet, avoiding spicy and oily food, and maintaining good hydration also help in reducing the burning sensation. Consulting a doctor is important for proper treatment and long - term relief.

Conclusion:

Summary of Key Points:

The Smart Toddlers Disease Prediction & Remedy Recommender helps parents find possible health issues in babies by checking symptoms. It gives safe treatments using modern medicine, Ayurvedic tips, and home remedies. This helps parents treat minor problems at home and know when to see a doctor. The system aims to improve baby health, reduce doctor visits, and ease parent worries.

Significance of the Study:

- Helps parents know what wrong in their baby quicky and how to care them.
- Stops small problems from getting worse and reduces trips to the doctor.