# AI Project Report – Leak Weak Chatbot

Subject: Artificial Intelligence (Code 843)

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## 1. Project Title

Leak Weak – A Menstrual Health Chatbot

## 2. Problem Statement

Many girls and women face challenges in accessing accurate and private information about menstruation. Social taboos, embarrassment, or lack of proper education lead to confusion, poor hygiene practices, and anxiety.

## 3. Users/Stakeholders

• Teenagers and young girls  
• Women of reproductive age  
• Parents and caregivers  
• Teachers, counselors  
• NGOs promoting menstrual hygiene

## 4. Objectives

• Provide private and trusted answers to menstrual health questions  
• Empower users with accurate knowledge  
• Promote hygiene and break taboos around menstruation

## 5. Features of the Chatbot

• Understands and answers common period-related questions  
• Works via simple web interface (Dialogflow)  
• Gives personalized answers in a friendly tone  
• Available 24x7, no embarrassment or judgment

## 6. AI Used

• Natural Language Processing (NLP): To understand user questions  
• Dialogflow platform: To create and train the chatbot using intents and responses

## 7. Data Used

• Pre-written Q&A dataset about menstruation (10+ topics)  
• Questions include hygiene, pain relief, irregular periods, food, mood swings, etc.

## 8. Solution/Working

• The chatbot is created using Google Dialogflow  
• Users type a question like “What can I do for cramps?”  
• The chatbot detects the intent and replies with a trained answer  
• Easy to use, even for first-time users

## 9. SDG Goals Aligned

• Goal 3 – Good Health and Well-being  
• Goal 4 – Quality Education  
• Goal 5 – Gender Equality

## 10. Future Scope

• Support for regional languages  
• Voice-based interaction  
• Integration with mobile apps and smart assistants  
• Connect with doctors or health portals

## 11. Testing & Feedback

• The chatbot was tested by 3 users  
• They found it helpful, simple, and informative  
• Feedback: Add more topics like PCOS and hygiene during travel

## 12. User Responses (Screenshots)

(\*Attach 2–3 screenshots of the chatbot answering questions in Dialogflow here\*)

## 13. Reflection (Teamwork)

I worked individually but learned how to:  
• Use Dialogflow and create AI-based chatbots  
• Write meaningful responses for users  
• Think like a developer and a user at the same time

## 14. Individual Reflection (What I learned)

This project taught me how AI like NLP can help solve real-life problems. I now understand how chatbots work and how they can provide privacy and support, especially for sensitive topics like periods.