

CHITKARA UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY, PUNJAB

Hack With Her 4.0 Hackathon with edifecs

Project Abstract

Project Title: SheCura – AI-Powered HealthTech for Women

Problem Statement

Women's healthcare is often generalized, leading to gaps in early diagnosis, personalized treatment, and mental well-being support. Issues like menstrual health tracking, reproductive care and mental health support lack comprehensive digital solutions that are user-friendly, accessible, and data-driven. Many women experience delays in diagnosis for conditions like PCOS, endometriosis, gestational diabetes and postpartum depression due to a lack of tailored tools. The absence of an AI-driven, holistic health platform limits proactive healthcare interventions, leading to long-term complications.

Relevance to Theme

SheCura is a technology-driven solution specifically designed for women's health, aligning perfectly with the HealthTech for Women theme. Our solution integrates AI, data analytics, and intuitive UI/UX to provide women with personalized health insights, early warning systems, and mental wellness support.

Solution Overview

SheCura is a web-based platform developed using HTML, CSS, JavaScript, Node.js, Flask, and Python, offering:

- ✓ **AI-Powered Symptom Analysis** - An intelligent chatbot that analyses symptoms related to menstrual health, reproductive issues, and chronic diseases, offering tailored recommendations.
- ✓ **Smart Health Dashboard** - A visually engaging UI displaying menstrual cycle tracking, hormonal fluctuations, and health trends.
- ✓ **Data Privacy & Security** - Secure encryption protocols ensuring user data is safe and confidential.
- ✓ **Admin authorisation** - A secure and role-based access system allowing admins to manage content, users, and platform settings efficiently.
- ✓ **Maternity centres around you** - A location-based feature that helps users find nearby maternity centres for prenatal and postnatal care.
- ✓ **Premium plans for communicating with chatbots** - Exclusive subscription plans providing enhanced AI-driven chatbot interactions for personalized health guidance and support.

Feasibility

Built using widely adopted technologies (HTML, CSS, JavaScript, Node.js for frontend, Flask & Python for backend AI models), **SheCura** is practical and scalable. The AI chatbot utilizes NLP and ML models to improve responses over time. The project is designed to be low-cost, easy to deploy, and accessible via web & mobile platforms, making it feasible for global adoption.

This innovation is not just about tracking—it's about transforming how women access and manage their health