



CODECELL-CMPN,VESIT

SYRUS HACKATHON 2025

Category Code: Open Innovation

Problem Statement Title: Empowering Women Through a Centralized Digital Platform

Team Name: \$ git commit -m "issues"

Institute Name: Vivekanand Education Society's Institute of Technology



Idea / Approach details (& implemented features)

Community Support

Discussion forums for *health, legal rights, and career growth* offer a safe space with **anonymous participation**, ensuring privacy and fostering a sisterhood no generic platform can match.

Financial Independence

AI-driven job matching and **freelance gig listings** tailor opportunities to women's skills and dreams, redefining economic empowerment with unmatched precision.

Health Tracking

Menstrual health tracking, self-defense resources, and mental health tools—designed for all tech levels—create a holistic, woman-focused wellness hub no other site rivals.

Safety & Legal Assistance

Anonymous domestic violence reporting, emergency alerts, and encrypted communication deliver unmatched safety and justice, protecting women with cutting-edge security.



Innovation (Showstopper)



Astitva stands out due to its all-in-one approach, combining safety, employment, health, and community support in a single platform tailored for women. Key innovative features include:



AI-Powered Chatbot

Provides **instant**, personalized responses to legal, health, and career queries, enhancing user support using **RAG**. Built with **Gemini AI**, uses **NLP** for **90%** accurate responses to legal/health queries.



Job Finder

A job finder for women helps women discover job opportunities tailored to their skills, preferences, and work conditions (e.g., remote, part-time, women-friendly workplaces).



Encrypted Privacy

Secure communication ensure user safety and trust, critical for sensitive issues like domestic violence. Features **end-to-end encryption** and **IP masking**, making it impossible to trace users even in high-risk situations.



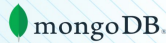
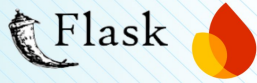
Real-time Mapping

Real-time mapping of essential resources, making help accessible even in urgent situations. **OpenStreetMap** integration pinpoints 200+ resources in 5 cities



Tech Stack

BACKEND



FRONTEND



◆ Backend

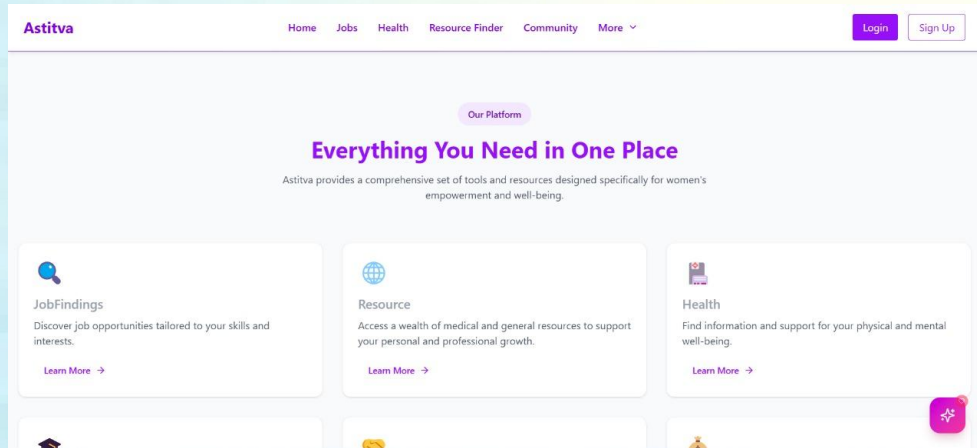
- Flask – Lightweight yet powerful, enabling rapid API development and seamless integration.
- Gemini AI – Provides smart chatbot assistance for legal, health, and career-related queries.
- MongoDB – NoSQL database ensuring flexible, scalable, and high-speed data storage.
- OpenStreetMap – Enables real-time geolocation mapping for finding shelters, job centers, and medical facilities.
- AWS – Cloud services for secure data storage, hosting, and high availability.

◆ Frontend

- React.js – Builds an interactive, dynamic, and scalable user experience.
- Tailwind CSS – Provides a sleek, modern, and mobile-responsive UI.
- Framer Motion – Adds smooth animations for an engaging and user-friendly interface.



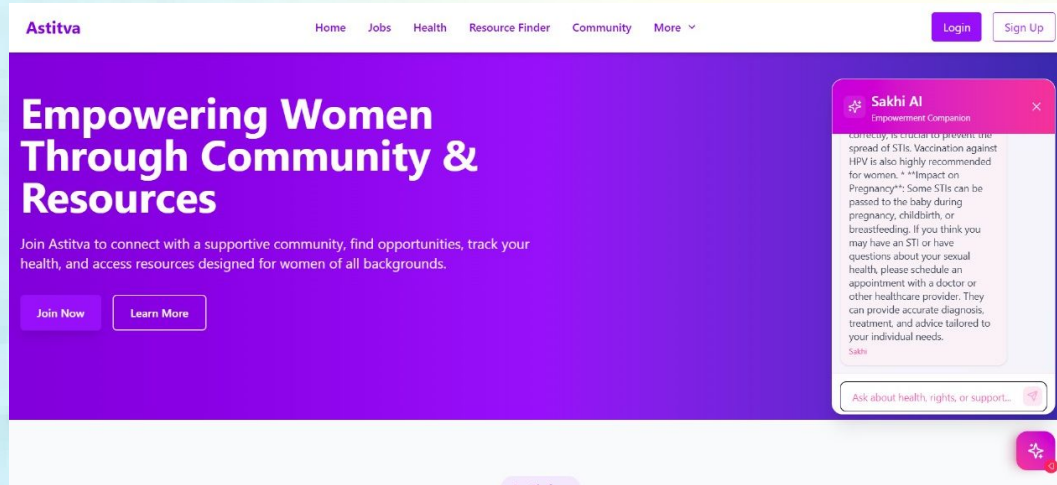
Implementation/Prototype/Use Case Diagram (screenshots)



- This section of Astitva highlights its key features, offering job opportunities, medical and general resources, and health support to empower women.
- The platform provides everything in one place for personal and professional growth.



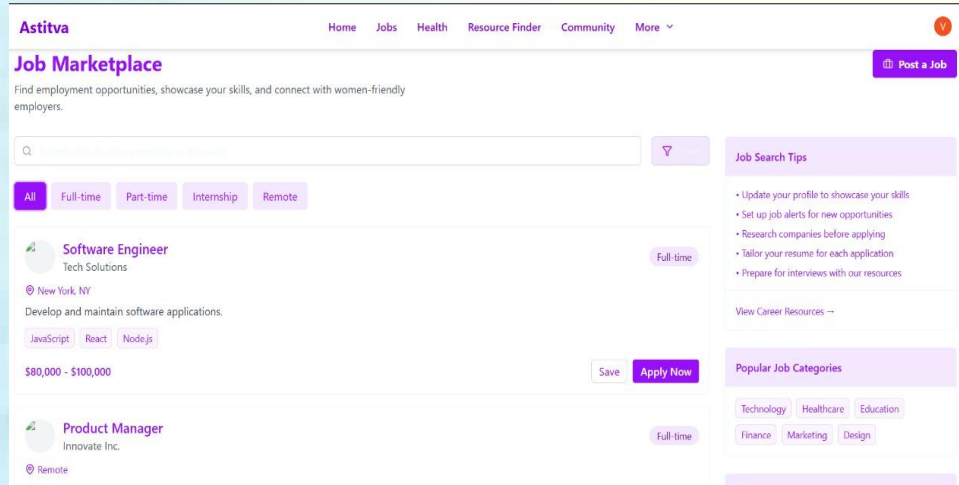
Implementation/Prototype/Use Case Diagram (screenshots)



- This is the homepage of Astitva, an AI-driven platform for women's empowerment. It features community support, job opportunities, health tracking, and resource access.
- A chatbot, Sakhi AI, provides guidance on health, rights, and support.



Implementation/Prototype/Use Case Diagram (screenshots)



The Job Marketplace section of Astitva is a dedicated platform for women to explore employment opportunities, showcase their skills, and connect with inclusive employers. It features:

- **Job Listings:** Various roles, including full-time, part-time, remote, and internships.



Implementation/Prototype/Use Case Diagram (screenshots)

Health & Wellness Dashboard

Track and analyze your health metrics in one place

Body Analysis

Age (yrs)

Weight (kg)

Height (cm)

Waist (cm)

Hips (cm)

Steps

Update Analysis

Normal weight

22.8

Low risk

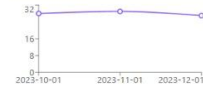
0.73

Cycle Tracker

Last Period

Cycle Length (days)

Next predicted cycle: 4/25/2023



Hydration



Symptom Tracker

Headache 20%



Cramps 10%

Headache 20%

Fatigue 10%

Mood Swings

% Activity



Weekly Steps Trend



The Health & Wellness Dashboard in Astitva helps women track key health metrics, including:

- **Body Analysis:** BMI & health risk calculation.
- **Cycle Tracker:** Predicts menstrual cycles.
- **Hydration Tracker:** Monitors water intake.
- **Symptom Tracker:** Logs cramps, headaches, fatigue, etc.
- **Activity & Steps Trend:** Tracks daily and weekly steps.



Implementation/Prototype/Use Case Diagram (screenshots)

Health & Wellness Dashboard

Track and analyze your health metrics in one place

Body Analysis

Age (yrs)

Weight (kg)

Height (cm)

Waist (cm)

Hips (cm)

Steps

Update Analysis

Normal weight: 22.8

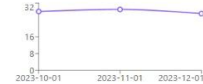
Low risk: 0.73

Cycle Tracker

Last Period

Cycle Length (days)

Next predicted cycle: 4/25/2023



Hydration



Symptom Tracker

Headache 20%



Cramps Headache Fatigue

Cramps Headache Fatigue

Cramps Headache Fatigue

Mood Swings

% Activity



Weekly Steps Trend

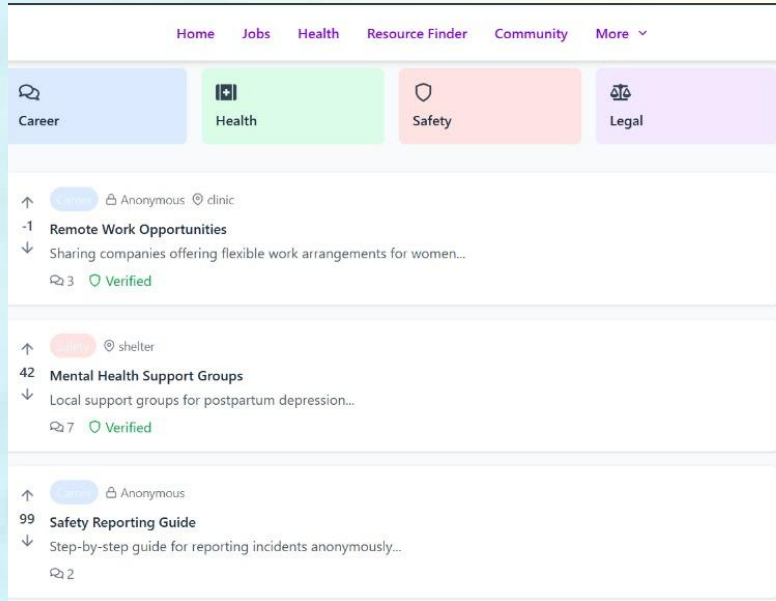


The Health & Wellness Dashboard in Astitva helps women track key health metrics, including:

- **Body Analysis:** BMI & health risk calculation.
- **Cycle Tracker:** Predicts menstrual cycles.
- **Hydration Tracker:** Monitors water intake.
- **Symptom Tracker:** Logs cramps, headaches, fatigue, etc.
- **Activity & Steps Trend:** Tracks daily and weekly steps.



Implementation/Prototype/Use Case Diagram (screenshots)



A safe space for women to discuss and access resources under Career, Health, Safety, and Legal categories.

- ✓ Users can post, comment, upvote/downvote
- ✓ Verified posts ensure credibility
- ✓ Anonymous posting for privacy
- ✓ Resource sharing on jobs, health, and safety



What We Have Implemented ?

1 Job Marketplace

- A platform for women-friendly job listings with search, filters, and category-based job postings
- Users can apply for jobs, save listings, and access career resources.

2 Health & Wellness Dashboard

- Body Analysis: BMI calculation and health risk assessment.
- Cycle Tracker: Predicts menstrual cycles based on user inputs.
- Hydration Tracker: Monitors daily water intake with progress indicators.
- Symptom Tracker: Logs health symptoms like headaches, cramps, and fatigue.
- Activity Tracker: Tracks daily and weekly steps with visualization.

3 Community & Resource Finder

- Discussion forums for knowledge-sharing and networking.
- Legal aid, emergency contacts, and geolocation-based safety resources.

4 Security & Authentication

- Firebase authentication for secure login via email/password & Google Sign-In.
- Encrypted communication for user privacy and safety.



Future Objectives

1. AI & Innovation

- Smarter AI support (Gemini)
- Predictive safety/health alerts

2. Revenue Streams

- Premium career services
- NGO/government partnerships

3. Scaling Impact

- Rural outreach via NGOs
- Government integrations

For every woman who joins Astitva, we unlock a ripple effect—stronger families, economies, and communities.

