



HackOrbit 2025

Apex Pioneers

THEME & PROBLEM STATEMENT

Theme: Healthcare Technology

Problem Statement: Bridging the Gender Gap in Digital Healthcare.

Despite growth in health tech, women's healthcare is often underserved by digital tools that are generic, opaque, and male-biased. Most AI-based tools today fail to address the specific needs of female users as they:

- Are not tailored to **female biology**, trained on gender-neutral or male-biased datasets.
- Rely on black-box machine learning models that don't explain their reasoning.
- Lacking in **personalization**, especially around key health issues.

As a result, millions of women struggle with:

- **Delayed diagnoses**
- **Lack of clarity** around symptoms and what they mean.
- **Limited access** to trustworthy, and privacy-conscious digital health tools.

PROPOSED SOLUTION

FemiVerse is a rule-based AI platform designed to deliver transparent, explainable, and personalized health insights tailored specifically to women.

In a world where most digital health tools are built on male-dominant data or one-size-fits-all ML models, FemiVerse tailors its approach specifically to conditions that uniquely or disproportionately affect women.

Instead of relying on black-box machine learning models, FemiVerse uses a clinical logic engine powered by if-then rules and expert-curated decision trees.

This ensures that every suggestion or outcome provided is:

- **Traceable** (users can see why they got that output),
- **Clinically grounded**, and
- **Customized** for symptoms commonly faced by women.

TECH STACK

LANGUAGES

- **TypeScript** – Strongly typed JavaScript
- **JavaScript (ES6+)** – Client-side interactivity
- **CSS (via Tailwind)** – Styling

• DEV TOOLS

- **ESLint** – Linter for consistent code style
- **Prettier** – Code formatter
- **Tailwind Animate** – Utility classes for animations
- **Vercel** – Deployment

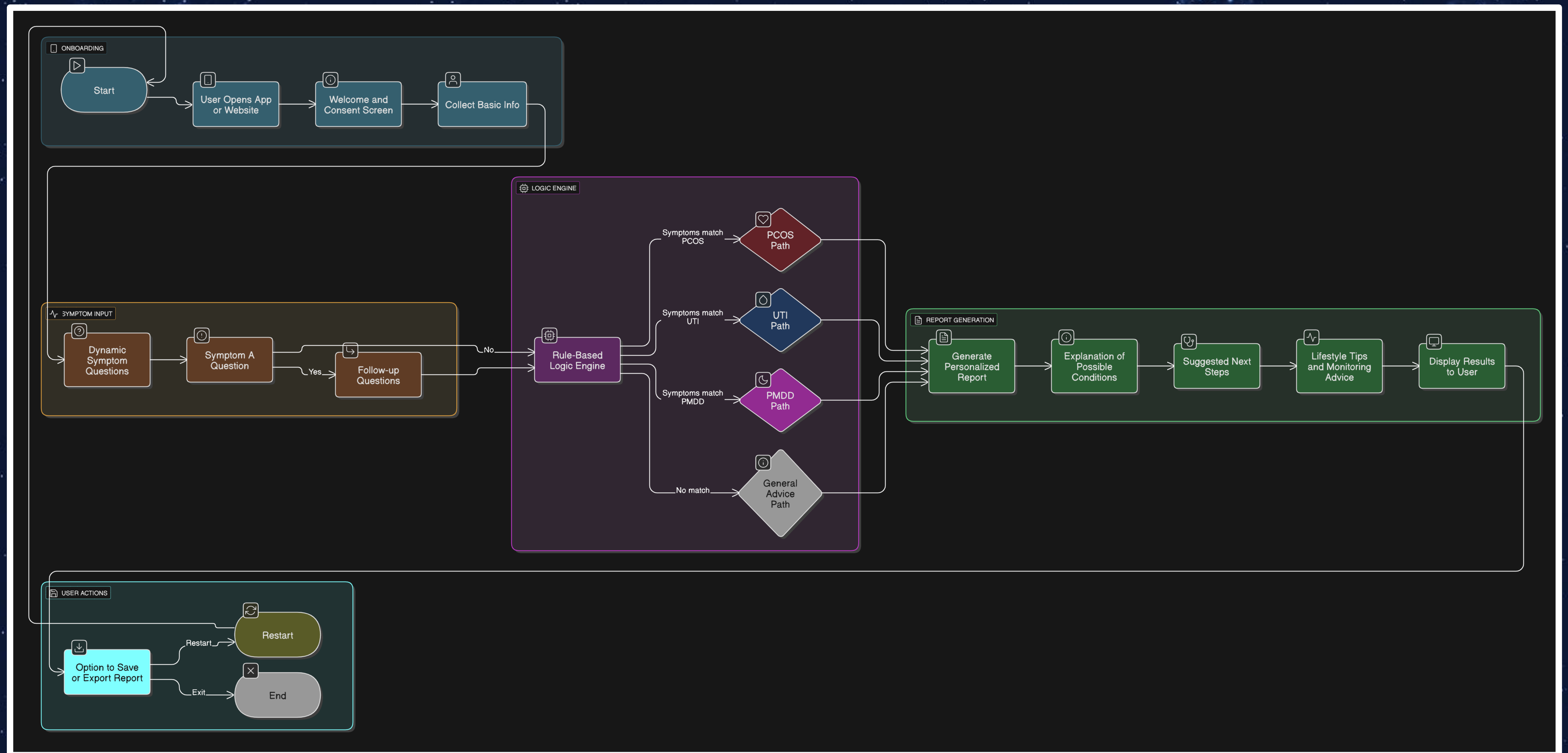
FRONTEND

- **Next.js 15**
- **React 18**
- **Tailwind CSS**
- **shadcn/ui**
- **Radix UI**
- **Lucide React**
- **Class Variance Authority (CVA)**

AI & LOGIC

- **Custom Rule-Based Engine** – Deterministic symptom logic (non-ML)
- **Google Gemini API** – Conversational AI capabilities

FEMIVERSE WORKFLOW DIAGRAM



Live Preview of FemiVerse: [Prototype — FemiVerse](#)

FEATURES AND NOVELTY

1. **Female-Centric Symptom Checker**: Intelligently guides women through potential health conditions like PCOS, PMDD, and more.
2. **Explainable Decision Logic**: No guessing. Every output comes with a plain-language explanation, empowering users with understanding, not just suggestions.
3. **Personalized Reports**: Provides clear next steps, suggested tests, and lifestyle tips.
4. **User-Friendly Interface**: Minimalist, intuitive UI built with Tailwind and accessible components.
5. **Privacy-Focused**: No sign-in required, no tracking, and all data stays on the user's device.
6. **Secure AI Integration**: Uses Google Gemini with local API key handling, no server storage.

DRAWBACK AND SHOWSTOPPERS

1. Limited Condition Coverage:

Only supports a defined list of women's health issues (e.g., PCOS, PMDD), which may not cover all symptom variations or overlapping conditions.

2. Not Suitable for Emergencies:

It is not built to handle urgent or life-threatening conditions, which may mislead users in critical situations.

3. No Long-Term Tracking:

Due to its session-based and privacy-first design, the platform doesn't store user history, trends, or progress over time.

1. Fragmented Female Health Data Standards:

Lack of global standardization for female health data complicates building universally accurate medical rules.

2. Device & Browser Compatibility Issues:

Modern tech stack may cause compatibility issues on older devices and browsers.

3. Maintenance Complexity:

Scaling and maintaining extensive rule logic becomes increasingly complex and error-prone.

APEX PIONEERS

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Thank you