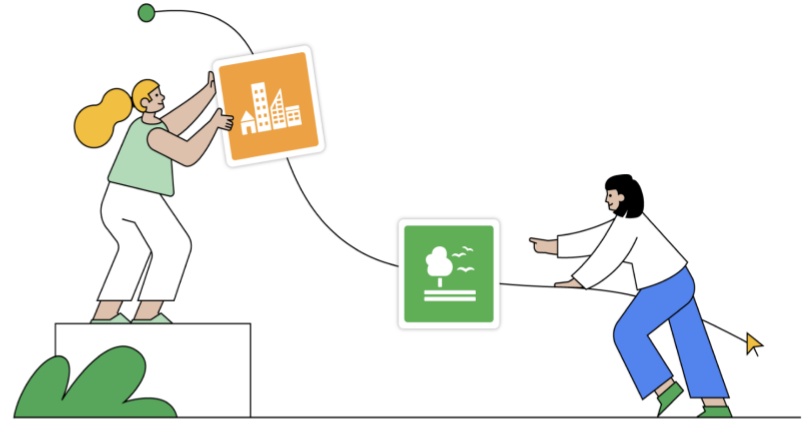


Solution Challenge



Team Details

- Team name:** Byte buster's
- Team leader name:** Priya
- Problem Statement:** lack of access to healthcare in underserved communities

Brief about your solution

◆◆ ****What is our solution?****

- An online healthcare platform that enables virtual consultations.
- Provides real-time medicine availability tracking.
- Reduces travel time and ensures accessible healthcare.

◆◆ ****How does it work?****

- Patients book virtual appointments with doctors.
- Doctors consult and prescribe medicine digitally.
- Medicine availability is checked via local pharmacy integration.

Opportunities

a. How different is it from any of the other existing ideas?

Built for rural users (not just another generic telemedicine app).

Works in low-internet areas (unlike apps requiring 4G).

Connects with local pharmacies & health workers.

AI-driven insights for early diagnosis.

Language & voice support for accessibility.

Potential to partner with NGOs & government programs.

b. How will it be able to solve the problem?

Eliminates travel for medical help.

Affordable & accessible for rural populations.

Works with low internet & simple interfaces.

Improves medicine access & emergency response.

c. USP of the proposed solution.

Designed for villages → No need for high-speed internet.

Affordable & accessible → Works on low-end devices with SMS support.

Connects local pharmacies & health workers → Ensures medicine availability.

AI-driven insights → Helps in early disease detection.

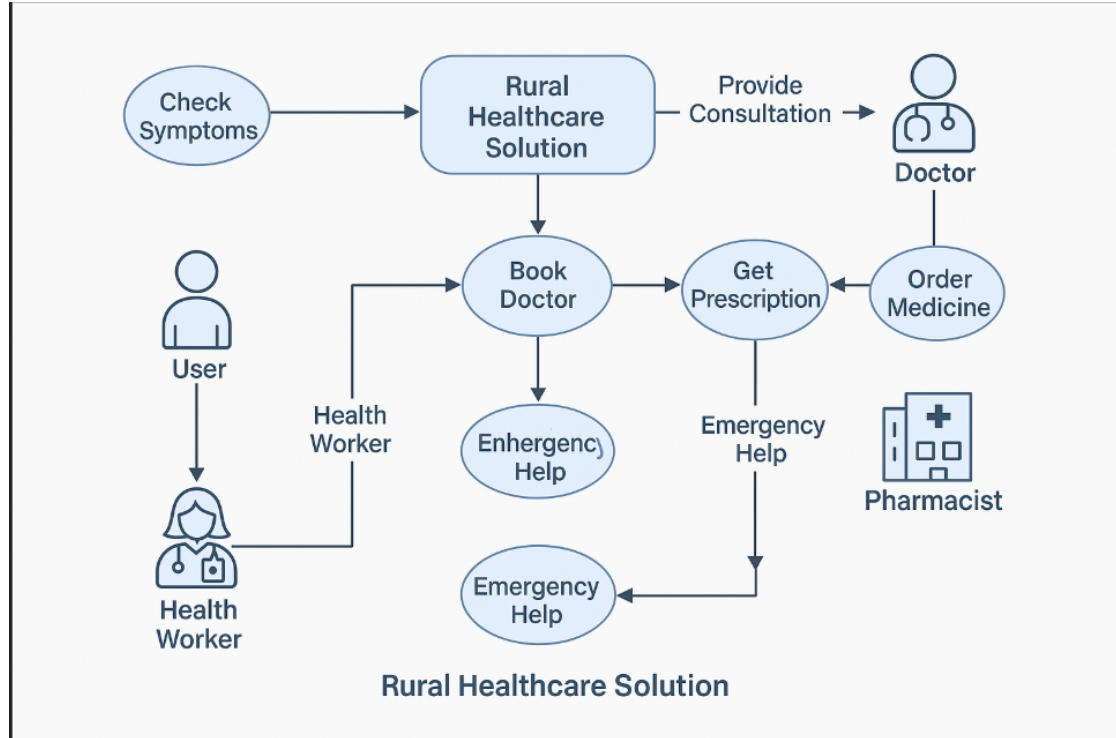
Multi-language & voice support → Inclusive for all users

List of features offered by the solution

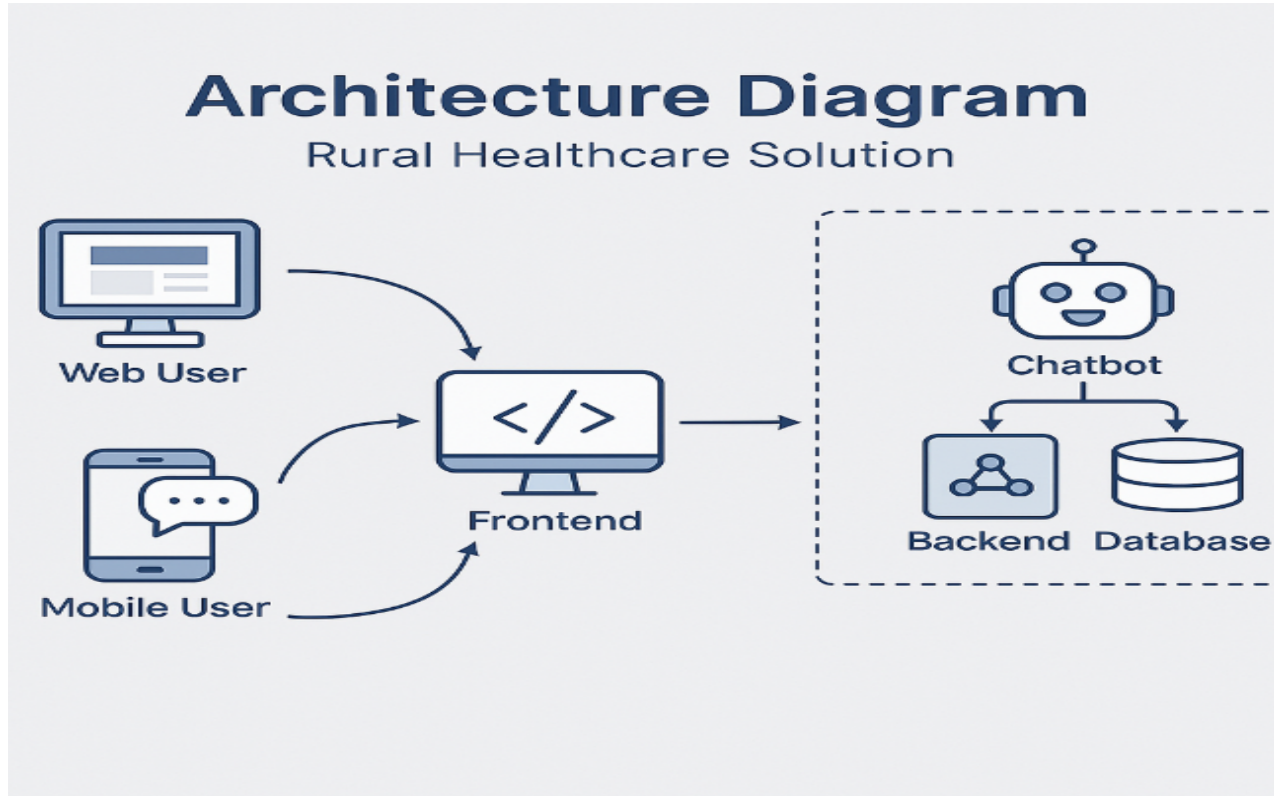
◆◆ **Features of Our Rural Healthcare Solution**

- ◆◆◆ **Virtual Doctor Consultation** – Video/audio calls, AI symptom checker, SMS-based booking.
- ◆◆◆ **Medicine Availability & Delivery** – Real-time stock updates, home delivery, refill reminders.
- ◆◆◆ **AI-Based Appointment Scheduling** – Smart scheduling, multi-language support, assisted booking.
- ◆◆◆ **Emergency Medical Assistance** – 24/7 helpline, hospital/ambulance locator, SOS button.
- ◆◆◆ **Community Health Worker & NGO Integration** – Local health worker assistance, NGO collaborations.
- ◆◆◆ **AI-Powered Health Insights** – Predictive analytics, health tips, early disease detection.
- ◆◆◆ **Multi-Language & Voice Support** – Local language & voice-based navigation for easy access.
- ◆◆◆ **Government Scheme & Insurance Integration** – Links to govt. schemes & Ayushman Bharat.

Process flow diagram or Use-case diagram



Architecture diagram of the proposed solution



Technologies to be used in the solution

🌀 Technologies Used in the Rural Healthcare Solution

1. Frontend (User Interface)

- **React.js** – For building an interactive web app.
- **React Native** – For cross-platform mobile app (Android & iOS).
- **HTML, CSS, Tailwind CSS** – For styling and responsiveness.
- **Redux / Context API** – For state management.

2. backend (Server & APIs)

- **Node.js with Express.js** – To handle API requests.
- **Django / Flask (Python Alternative)** – If AI/ML is involved.
- **GraphQL / REST API** – For seamless communication.

3. database & Storage

- **MongoDB / Firebase Firestore** – For storing patient & consultation records.
- **PostgreSQL / MySQL** – For relational data.
- **Cloud Storage (AWS S3, Google Cloud)** – For document uploads & prescriptions.

4. AI & Chatbot Integration

- **Google Dialogflow / Rasa** – For AI-powered chatbot.
- **TensorFlow / OpenAI API** – For AI symptom checker.

5. Authentication & Security

- **Firebase Authentication / Auth0** – Secure login & patient data access.
- **JWT (JSON Web Token)** – Secure API authentication.
- **End-to-End Encryption** – Protecting user medical data.

6. Telemedicine & Communication

- **WebRTC / Twilio / Agora** – For video/audio calls.
- **SMS API (Twilio, Vonage)** – For appointment reminders & alerts.
- **Push Notifications (Firebase / OneSignal)** – Instant health updates.

7. Deployment & DevOps

- **Docker & Kubernetes** – For containerization & scaling.
- **AWS, Google Cloud, or Azure** – For hosting services.
- **CI/CD (GitHub Actions, Jenkins)** – For smooth updates & deployments.

Snapshots of the MVP

Rural Healthcare Assistance

Providing healthcare solutions to underserved communities.

[Check Symptoms](#) [Book a Consultation](#) [Emergency Help](#)

Conversation with HealthBot

hi

B

I'm not sure, but I can help with healthcare queries!

Write your message here

Provide links to your:

1. GitHub Public Repository: [solution-challenger-/README.md at main · PRIYA-7814/solution-challenger-](#)
2. Demo Video Link (3 Minutes): <https://youtu.be/kN7oxbc54T8?feature=shared>
3. MVP Link: [React App](#)

TEAM MEMBER'S

PRIYA = TEAM LEADER(FRONTEND DEVELOPER)

PRANIT SHARMA = FRONTEND DEVELOPER

ROHIT DAHIYA= UI/UX DESIGNER



Solution Challenge



Thank you

