ODOO X NIRMAN 2025

- Subtitle: Innovation for Atmanirbhar Bharat
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PROBLEM STATEMENT

- Chosen Problem: Telemedicine App for Rural Healthcare
- Problem Analysis:
- - Rural areas often lack access to quality healthcare services.
- - Long-distance travel for medical consultations is a challenge.
- - A telemedicine app can bridge the gap by connecting patients with doctors remotely.
- Target Audience: Rural patients, healthcare professionals, and local health organizations.

SOLUTION OVERVIEW

- Solution Summary: A telemedicine app enabling video consultations, medical records management, prescription tracking, and appointment scheduling.
- Approach:
- - Use modern technologies like WebRTC for video calls and Firebase for real-time data.
- - Ensure user-friendly design for accessibility in rural areas.
- Uniqueness: Combines multiple features like video calls, record management, and payment integration in one platform.

FRAMEWORKS AND TECHNOLOGIES

- Tech Stack:
- - React Native (Frontend)
- - WebRTC (Video Calls)
- - Firebase (Chat and Real-Time Data)
- Reasoning for Choice:
- - WebRTC for seamless video communication.
- - Firebase for scalability and real-time updates.
- Challenges:
- - Ensuring low-latency video calls in remote areas.
- - Building an intuitive UI for non-tech-savvy users.

FEASIBILITY AND IMPLEMENTATION

- Implementation Feasibility:
- - Technologies chosen are well-documented and developer-friendly.
- - Scalable architecture to accommodate growing user base.
- Effectiveness:
- - Provides timely medical advice, reducing unnecessary travel.
- - Centralized platform for managing patient records and appointments.

UI/UX MOCKUP

- Wireframes or Mockups: Include sketches of:
- - Home Screen with options for consultation, appointments, and records.
- - Video call interface.
- User Flow:
- - Register/Login > Select Service > Connect with Doctor > Consultation Summary.
- Accessibility: Simple navigation with localized language support.

BUSINESS SCOPE AND USE CASES

- Use Case Scenarios:
- - A farmer consults a doctor for medical advice without traveling to the city.
- - Patients receive prescriptions and follow-up reminders through the app.
- Market Need:
- - High demand for accessible healthcare in rural India.
- - Growing adoption of telemedicine post-pandemic.
- Revenue Model (Optional): Subscription-based or pay-per-consultation.

SYSTEM DESIGN AND ARCHITECTURE

- System Overview:
- -Frontend: React Native.
- - Backend: Firebase.
- - Video Calls: WebRTC integration.
- - Real-Time Data: Firebase.

CODING APPROACH

- Development Methodology: Agile development with iterative sprints.
- Coding Standards:
- - Regular code reviews.
- - Automated testing for ensuring app reliability.

CONCLUSION

- Summary: The telemedicine app addresses rural healthcare challenges by providing accessible, real-time medical consultations and management features.
- Future Scope:
- - Integration of AI for diagnosis support.
- - Expansion to include multi-language support.
- Call to Action: Invite feedback and collaboration opportunities.

THANK YOU