Bharat Ayush - Complete Product Documentation

Overview

Bharat Ayush is a comprehensive digital health platform focused on Ayurvedic medicine and traditional healing practices. The platform consists of multiple interconnected components designed to serve both end-users and healthcare practitioners.

Product Components

1. Website

Purpose: Marketing and informational website for Bharat Ayush

- **Repository**: https://github.com/worklikeanmol/BharatAyush_Website_Version
- **Technology**: Static website
- **Deployment**: AWS Lightsail

2. Web Application

Purpose: Main application platform for users to access Ayurvedic health services

Backend

- **Repository**: https://github.com/curveaiAdmin/bharat-ayush-backend
- **Technology Stack**:
  - Python FastAPI
  - Langchain
  - Google Generative AI
  - Pydantic
- **Deployment**: AWS Lightsail

Frontend

- **Repository**: https://github.com/curveaiAdmin/bharat-ayush-frontend
- **Technology Stack**:
  - React
  - Vite
- **Deployment**: AWS Lightsail

3. WhatsApp Bot

Purpose: Conversational AI bot for health consultations via WhatsApp

- **Repository**: https://github.com/worklikeanmol/healing-bot-main

- **WhatsApp Number**: 9211509307

- **API Provider**: Meta WhatsApp Business API (Anmol's Account)

- **Testing Deployment**: Heroku (https://bharatayush-bot-5937349caaa3.herokuapp.com/)

4. Practitioner CRUD Platform (BPMS)

Purpose: Backend management system for healthcare practitioners

- **Repository**: https://github.com/worklikeanmol/practitioner-crud-platform

- **Technology**: Web-based CRUD application

- **Deployment**: AWS Lightsail

Infrastructure & Deployment

AWS Lightsail Configuration

- **Instance Name**: Ubuntu-1

- **Specifications**:
  - 4 GB RAM

  - 2 vCPUs

  - 80 GB SSD

- **Region**: Mumbai, Zone A (ap-south-1a)

- **Static IP**: 15.206.254.112

- **Private IPv4**: 172.26.13.69

- **Public IPv6**: 2406:da1a:ae7:b900:9e03:b82c:611c:d827

- **Instance Status**: Running

- **Networking**: Dual-stack

Domain & Networking

- **Static IP Address**: 15.206.254.112

- **Backend API Endpoint**: https://backend.bharatayush.ai/docs

Database & Storage

Primary Database

- **Service**: Supabase

- **Account**: info@curveai.io

- **Security**: MFA Enabled

- **Type**: PostgreSQL-based cloud database

Caching & Session Storage

- **Service**: Upstash Redis
- **Account**: info@ curveai.io
- **Security**: MFA Not Enabled
- **Type**: Redis cloud service

AI & Machine Learning

Language Model

- **Provider**: Google Generative AI
- **Model**: Gemini 2.0 Flash
- **Account**: Anmol's Account
- **Integration**: Via Google GenAI API

Payment Processing

Payment Gateway

- **Service**: Razorpay
- **Environment**: Testing
- **Account**: Anmol Testing RazorPay API
- **Integration**: Payment processing for health services

API Documentation

Backend API Endpoints

Base URL: https://backend.bharatayush.ai

Note: For detailed API endpoints and count, please refer to the interactive documentation at:
https://backend.bharatayush.ai/docs

The backend provides RESTful APIs for:

- User authentication and management
- Health consultation services
- Practitioner management
- Payment processing
- WhatsApp bot integration

- Data analytics and reporting

Technology Stack Summary

Backend Technologies

- **Framework**: Python FastAPI

- **AI Integration**: Langchain

- **Language Model**: Google Generative AI (Gemini 2.0 Flash)

- **Data Validation**: Pydantic

- **Database**: Supabase (PostgreSQL)

- **Caching**: Upstash Redis

Frontend Technologies

- **Framework**: React

- **Build Tool**: Vite

- **Deployment**: Static hosting on AWS Lightsail

Infrastructure

- **Cloud Provider**: AWS Lightsail

- **Operating System**: Ubuntu

- **Reverse Proxy**: Nginx (implied)

- **SSL/TLS**: HTTPS enabled

Security & Access Management

Database Security

- **Supabase**: MFA enabled for enhanced security

- **Upstash Redis**: Standard authentication (MFA recommended for future)

API Security

- **HTTPS**: SSL/TLS encryption for all endpoints

- **Authentication**: Token-based authentication

- **CORS**: Configured for cross-origin requests

Monitoring & Maintenance

Instance Monitoring

- **Status**: Running

- **Health Checks**: AWS Lightsail built-in monitoring

- **Backup Strategy**: Database backups via Supabase

Development Workflow

- **Version Control**: Git repositories on GitHub

- **Deployment**: Manual deployment to AWS Lightsail

- **Environment**: Production environment on single instance

Contact & Support

Technical Contacts

- **Primary Developer**: Anmol

- **Organization**: CurveAI

- **Email**: info@ curveai.io

Service Accounts

- **WhatsApp Business**: Meta API via Anmol's account

- **AI Services**: Google Generative AI via Anmol's account

- **Payment**: Razorpay testing account via Anmol

- **Databases**: Shared CurveAI accounts

Last Updated: May 27, 2025 Documentation Version: 1.0