Homeopathic Management System
(Project proposal)

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1. Introduction:

Homeopathy is a holistic system of medicine based on the principle of 'like cures like'. Despite its growing popularity, many homeopathic clinics still rely on manual record-keeping, leading to inefficiencies in managing patient data, prescriptions, and medicine stock. This proposal presents the development of a Homeopathic Management System (HMS) aimed at digitizing the entire clinic workflow including patient handling, case taking, appointments, prescriptions, inventory tracking, and administrative reporting.

2. Problem Statement:

Manual handling of clinic operations in homeopathic practice results in time consumption, data inconsistency, and a lack of centralized information. Paper-based records are not only prone to loss and damage but also make it difficult to retrieve historical case data efficiently. There's a need for a web-based, role-managed digital solution that improves patient experience, doctor efficiency, and clinic productivity.

3. Proposed System:

The proposed Homeopathic Management System will consist of the following features:

- Online patient registration and digital case history management
- Appointment booking with calendar view
- Detailed case recording based on homeopathic methodology
- Prescription generation and history tracking
- Inventory module for medicine stock management
- Role-based access for Doctor, Admin, Receptionist, and Pharmacist
- Report generation for patient visits, medicine usage, and clinic operations

4. Survey Analysis:

A survey was conducted with local homeopathic practitioners and their assistants. The results indicated that:

-85% of clinics still use manual record-keeping
- 75% face difficulty in recalling patient history during follow-ups
- 90% are interested in using a digital system to manage appointments and prescriptions
- Primary concerns included ease of use and data privacy

5. Modules and Sub-modules:

1. User Authentication
   - Login/Register
   - Role-based access control

2. Patient Management
   - Add/Edit/Delete patient profiles
   - View case history

3. Appointment Scheduling
   - Book/Reschedule/Cancel appointments
   - Doctor's calendar integration

4. Prescription Management
   - Homeopathic remedy selection
   - Dosage and follow-up tracking

5. Inventory Control
   - Medicine stock monitoring
   - Notifications for low stock

6. Reporting & Admin Panel
   - User roles management
   - Reports: patient visits, medicine usage, appointments

6. Primary Actors:

- Doctor: Handles patient cases, prescribes treatment
- Receptionist: Manages appointments, registers patients
- Pharmacist: Monitors and updates medicine stock
- Admin: Controls system roles, overall monitoring

7. Tools & Techniques Used:

- Programming Language: JavaScript (Node.js, React.js)
- Frameworks: Express.js, Tailwind CSS
- Database: MongoDB
- Authentication: JWT, Two-Factor Authentication
- Tools: GitHub, VS Code, Postman, Figma (for UI Design)

8. Process Model & Design Approach Used:

- Software Process Model: Agile
- Design Methodology: Modular design, Iterative development
- UI/UX Prototyping with user feedback
- Continuous testing (TDD) and integration

9. Project Plan:

Phase	Duration	Activities
Planning	1 Week	Requirement gathering, surveys
Design	2 Weeks	Wireframes, database schema, flow design
Development	4 Weeks	integration of modules
Testing	2 Weeks	Unit tests, bug fixing
Finalization	1 Week	Deployment, documentation
Presentation	1 Week	Report submission and viva preparation