CODECELIX - Project Requirement Document (PRD)

Client: MedLink Health Center

Project: Online Appointment & Clinic Management System

Deadline: 2 Weeks

1. Project Overview

MedLink is an online appointment and clinic management system designed for healthcare providers. The platform allows patients to book appointments, doctors to manage schedules, and administrators to monitor activity in a simple, modern web interface built using the MERN stack.

2. Project Objectives

• Build a secure, role-based platform for patients, doctors, and admins. • Implement CRUD operations for appointments, doctors, and patients. • Enable appointment booking and cancellation functionality. • Provide dashboards with relevant statistics. • Deliver a polished, deployable MERN stack web application within 2 weeks.

3. Key Features

• **Patient Side:** Registration, login, view doctors, book and cancel appointments. • **Doctor Side:** Login, view daily schedule, update availability, mark appointments completed. • **Admin Dashboard:** Manage doctors, patients, and appointments with simple analytics. • **Optional Enhancements:** Email/SMS notifications, prescription uploads, search and filter options.

4. Suggested Tech Stack

Layer	Tools
Frontend	React.js + Tailwind CSS
Backend	Node.js + Express.js
Database	MongoDB (Mongoose ORM)
Auth	JWT
Hosting	Vercel (Frontend) + Render/Railway (Backend)
Optional	Cloudinary (Uploads), Recharts (Analytics)

5. 2-Week Timeline

Week	Focus	Deliverable
Week 1	Setup project, authentication, models, basic booking	Working CRUD + login/signup

| Week 2 | Dashboard, analytics, deployment, UI polish | Fully functional clinic management demo |