

# Denver Care Project - Backend Features & Specifications

This document outlines the backend architecture, features, and technical specifications of the Denver Care project.

## Core Features

- User Authentication & Authorization (JWT-based)
- Doctor Registration & Management
- Patient Registration & Management
- Appointment Scheduling System
- Medical Records & History Storage
- Payments & Billing Management
- Admin Panel for system oversight
- Cloud-based Image & File Uploads (Cloudinary)
- Secure Password Hashing (bcrypt)
- Email Notifications & Alerts

## Technical Specifications

Technology	Specification
Backend Framework	Node.js with Express.js
Database	MongoDB with Mongoose ODM
Authentication	JWT (JSON Web Tokens)
Password Security	bcrypt for hashing
File Storage	Cloudinary Integration
API Architecture	RESTful APIs
Deployment	Cloud-ready (supports Docker/Heroku/AWS)
Error Handling	Centralized error middleware with custom responses
Validation	Validator.js & Mongoose schema validation
Logging	Integrated request & error logging
Scalability	Modular services with future support for microservices