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SUMMARY OF THE PROJECT

The Front Desk System is a web-based application designed to streamline patient queue management and appointment scheduling at a clinic. It enables front desk staff to efficiently handle walk-in patients, manage appointments, and track patient progress. Key functionalities include:

- Queue Management: Assigning queue numbers to patients, updating their statuses (e.g., waiting, with doctor, completed), and managing the queue efficiently.
- Appointment Management: Booking, rescheduling, and canceling appointments, viewing available doctors and their time slots, and updating appointment statuses.
- Doctor Profile Management: Adding, editing, and deleting doctor profiles, including details like specialization, location, gender, and availability.
- · Authentication: Secure login functionality using JWT for system access.

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TECH STACK

NestJS: Node,js framework for building scalable serverside applications.

Next.js: React framework for server-side rendering and static web pages.

JWT Authentication: For secure login and authorization.

TypeORM: ORM for managing MySQL database interactions.

Tailwind CSS: For responsive and efficient UI styling.

MySQL: Database to store user, doctor, and appointment data

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MODEL:-

- Represents the database structure and handles data logic.
- Entities like User, Doctor, Appointment, and Queue are managed using TypeORM.

MVC ARCHITECTURE

CONTROLLER:-

- Handles user requests and orchestrates actions between the Model and the View.
- Examples:
 - QueueController: Manages requests for queue operations.
 - AppointmentController: Handles appointment-related requests (e.g., booking, rescheduling).
 - AuthController: Manages authentication tasks.

VIEW:-

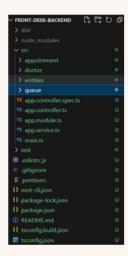
The user interface, built using Next.js and styled with Tailwind CSS, includes:

- Queue Management Page: Displays the patient queue and their statuses.
- Appointment Management View: Lists available doctors and facilitates appointment actions.
- Login Page: Secure authentication interface.

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Screenshot of backend running successfully

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Screenshot of the folders in backend

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```
C:\Users\xolom\front-desk-frontend>npm run dev

> front-desk-frontend@0.1.0 dev

> next dev --turbopack

APort 3000 is in use, trying 3001 instead.

A Next.js 15.1.3 (Turbopack)

- Local: http://localhost:3001

- Network: http://192.168.29.68:3001

/ Starting...

/ Ready in 1003ms
```

Screenshot of frontend running successfully

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SAMPLE SCREENSHOTS OF OUR RESULTS Login Email Password Login Login page (test image)

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Backend (SQL)

Manage Doctors karun - neurosurgeon

Frontend display

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Thank you very much!



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