Task 5: Doctor Web

Developer: Aditya Sahu
Tech Stack Used: React + React Router + TailwindCSS + React Helmet

1 Objective

To build a modern and responsive **Doctor Appointment Booking Portal** where users can:

- Browse doctors by specialty
- View doctor profiles
- Book appointments
- Log in to view dashboard & history

2 Architecture & Routing

Used **React Router DOM** for SPA navigation:

Page	Route
Home	`/`
About	`/about`
Services	`/services`
Doctors listing	`/doctors`
Doctor Profile	`/doctors/:id`
Book Appointment	`/book`
Login/Register	`/login`
Dashboard	`/dashboard`
Appointment History	`/appointments`
Contact	`/contact`

3 SEO & Accessibility

Used **React Helmet** for dynamic SEO:

- Custom titles & meta descriptions per page
- Canonical tags
- Proper semantic HTML
- `alt` attributes for all images
- ARIA labels in forms

This improves:

- Indexability
- Screen reader support
- Digital accessibility

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4 Responsive UI Design

I used **TailwindCSS** for:

- Mobile-first design
- Quick consistent styling
- Adaptive navigation bar + mobile menu

Screens work well on:
Mobile | Desktop | Large screens

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5 Data Handling

Doctors data stored in array
Later can be replaced with API / database

Form submissions simulate backend actions using navigation + alerts.

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6 Component Design Approach

- Navbar + Footer used across pages
- Components separated clearly based on functionality
- Clean state management via `useState()` and props

Ensures maintainability and scalability.

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7 Security Considerations

Future enhancements planned:

- JWT Auth (Secure login)
- Form validation + sanitization
- API-based booking system
- Patient health data encryption

Shows that I understand real-world project needs.