WIPRO NGA Program – EP_Java Fullstack Batch

Capstone Project Presentation – 11 July 2024

Project Title – AmazeCare HealthCare Application

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Agenda

- Introduction
- Scope
- Technologies
- Use case Diagram
- Modules (Role and Responsibilities)
- Screenshots
- Conclusion

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Introduction

Problem statement:

In this case study, we have design and developed a fullstack healthcare application called " AmazeCare" which aims to streamline patient management and improve healthcare services in a medical facility. The application will facilitate the interaction between patients, doctors, and administrative staff, ensuring efficient appointment scheduling, medical record management, and communication

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Scope

- **Efficient Appointment Booking:** Enable patients to schedule appointments online, reducing waiting times and improving overall patient experience.
- **Comprehensive Medical Records:** Store and manage patient medical records electronically for easy access by healthcare providers.
- **Real-time Communication:** Allow patients and doctors to communicate securely through the platform, enabling follow-up discussions and quick responses to queries.
- **Administrative Automation:** Simplify administrative tasks such as handling medical records, staff records.

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Technologies Used

- Frontend : Angular
  HTML
  CSS
  Bootstrap

- Backend : Java
  Spring Boot

- Database : Mysql

- Authentication : JSON Web Tokens(JWT)

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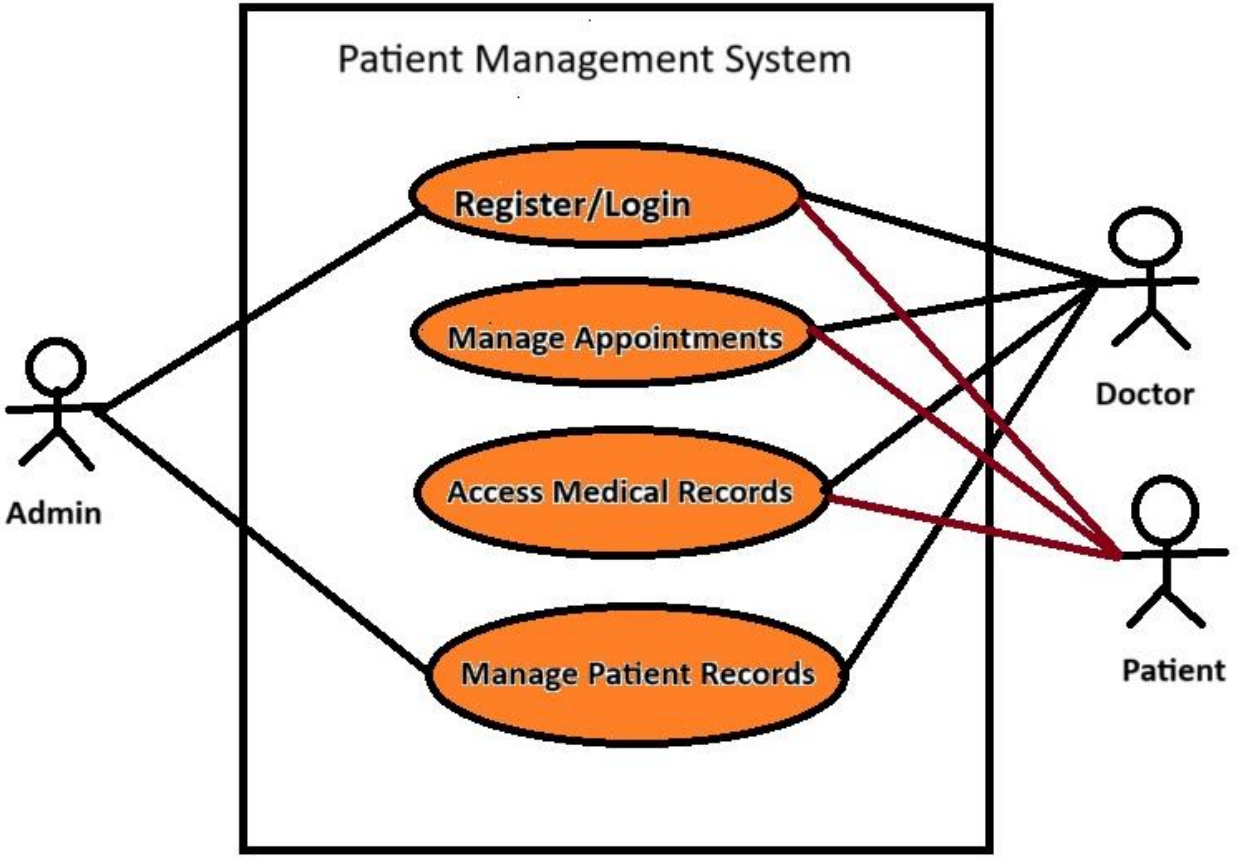
Use case Diagram



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Use Cases

Actor: **Patient**

- Use Case: Register as a new patient
- Use Case: Log in as an existing patient
- Use Case: Update personal information
- Use Case: Schedule Appointment
- Use Case: View Medical History
- Use Case: View Appointments
- Use Case: Cancel Appointment

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Actor: **Doctor**

- Use Case: Log In as an existing Doctor
- Use Case: View Appointments
- Use Case: Conduct Consultation
- Use Case: Update Medical Records
- Use Case: Prescribe Medications

Actor: **Administrator**

- Use Case: Log In
- Use Case: Manage Appointments
- Use Case: Manage Doctors
- Use Case: Generate Reports(As simple list view)

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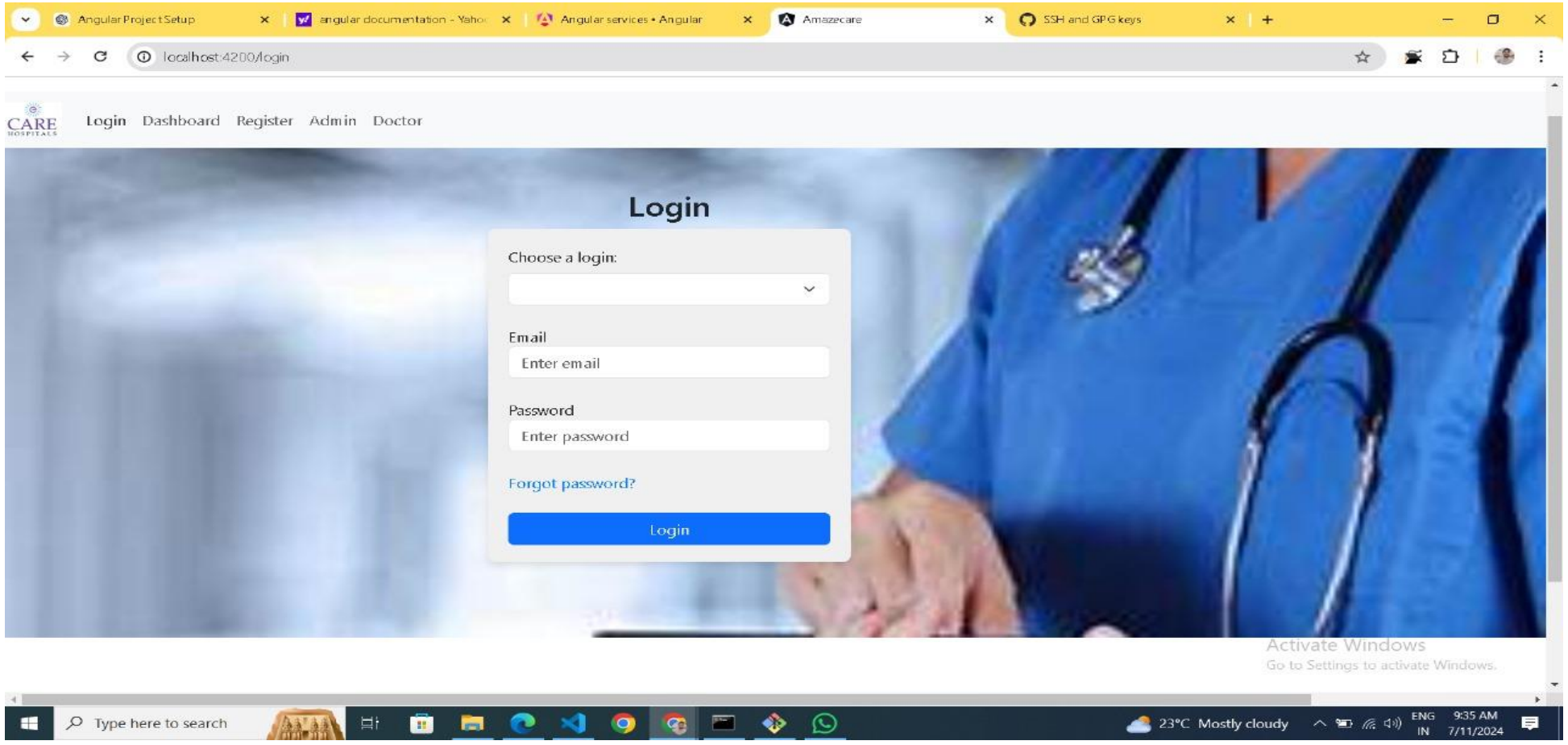
Screenshots



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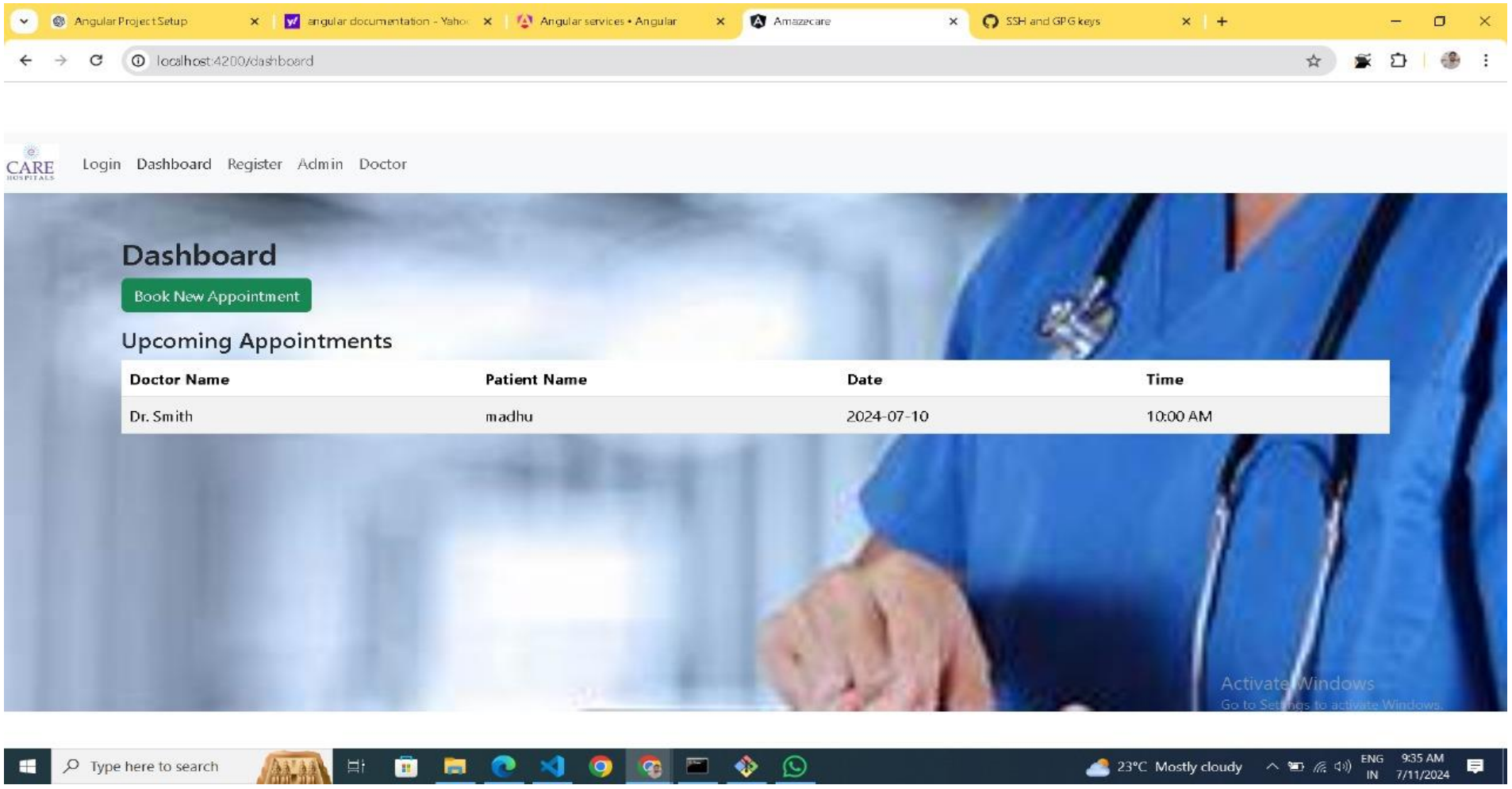

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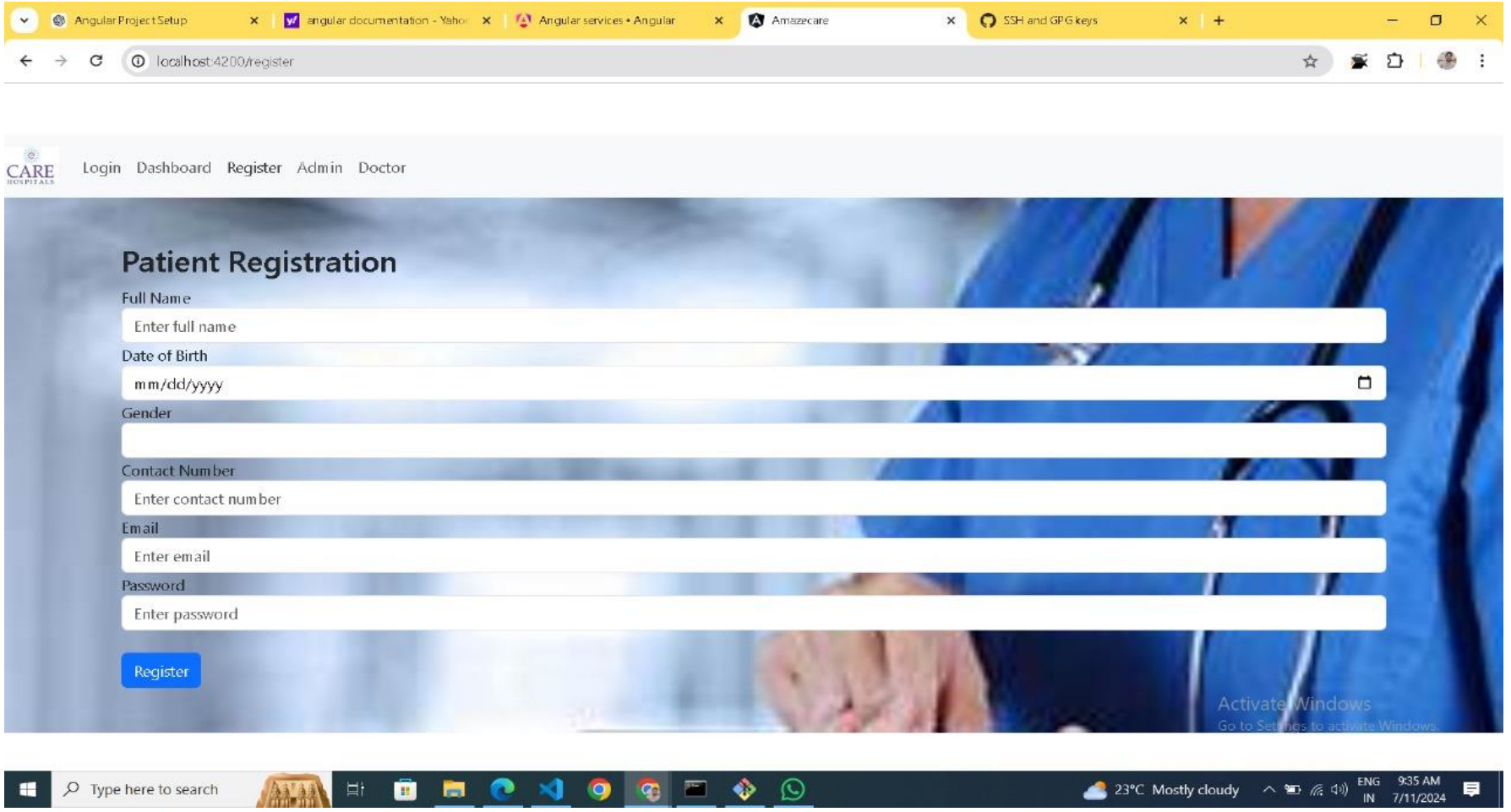

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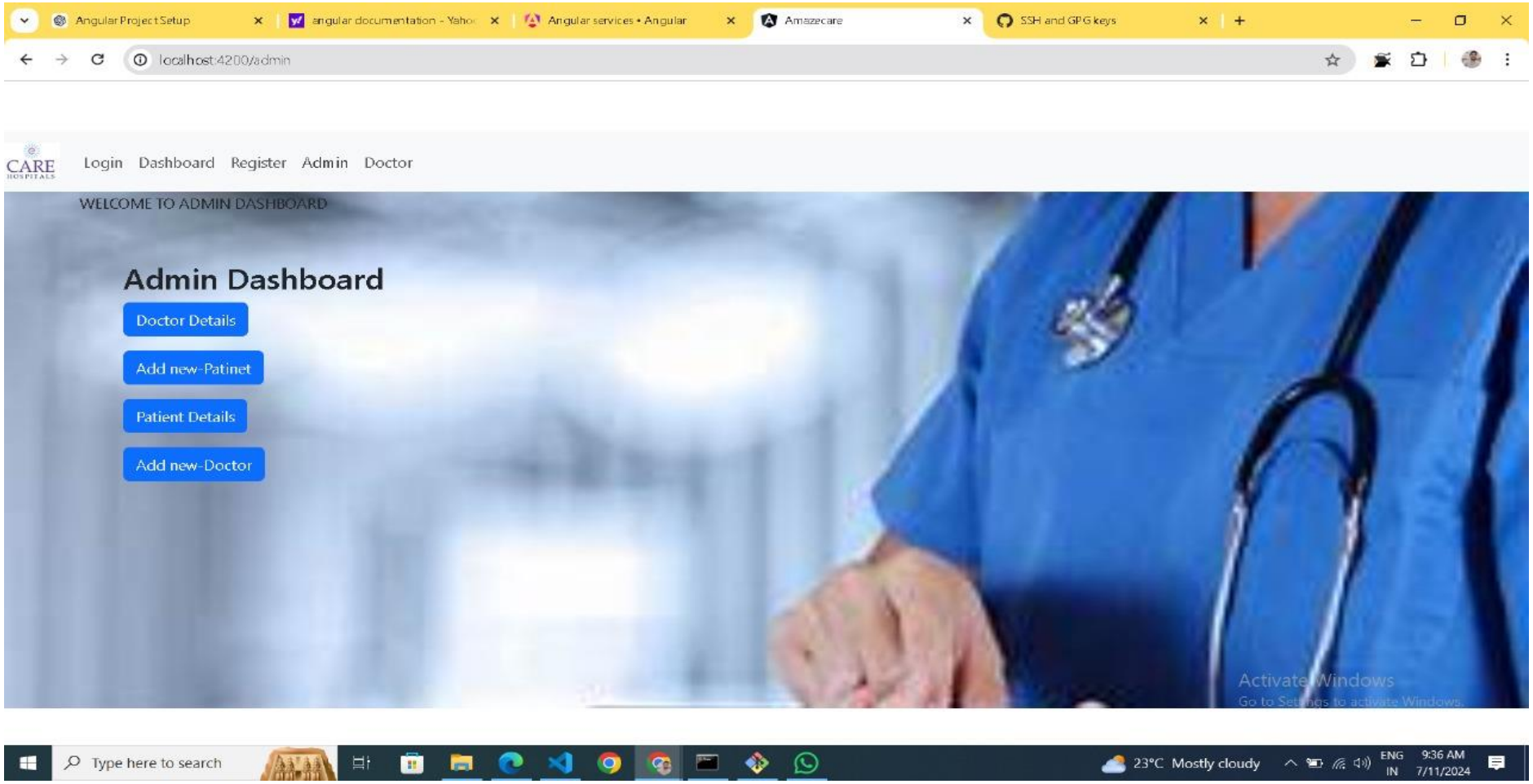

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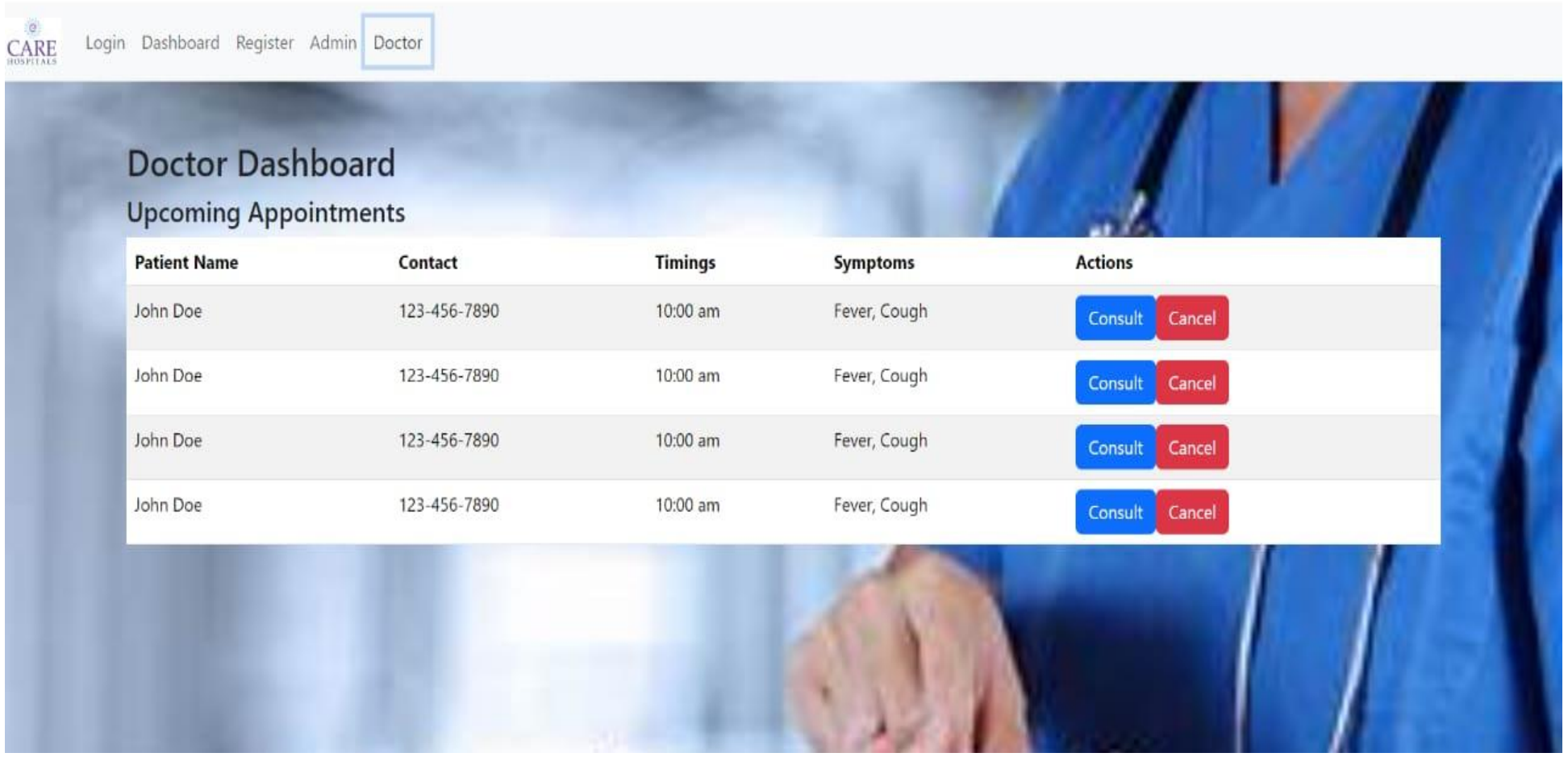

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Conclusion

In conclusion, the development of the hospital management system using a Java full stack approach has successfully addressed the key objectives of improving patient care and operational efficiency. Leveraging Java for backend robustness, along with a modern front-end framework, the system provides a seamless and responsive user experience. The integration of secure database management ensures reliable storage and retrieval of sensitive medical data.

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Thank You!

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