Team 5

Hospital Management System

Our Team Members

1. **Goutam NT :** Developed and managed the server-side logic, database integration, and API creation for the system.

2. **Varsha Kamath :** Responsible for backend functionalities, data handling, and ensuring secure and efficient server operations.

3. **Devaki Kotturthi :** Designed and implemented the user interface to ensure an intuitive and responsive experience.

4. **Kedhar Reddy :** Developed engaging and user-friendly frontend components for smooth user interactions.

5. **Ankita Sinha :** Created and managed the administrative dashboard for hospital management and analytics.

6. **Harshini Pothireddy :** Worked on designing and optimizing the dashboard for efficient hospital data visualization and management.
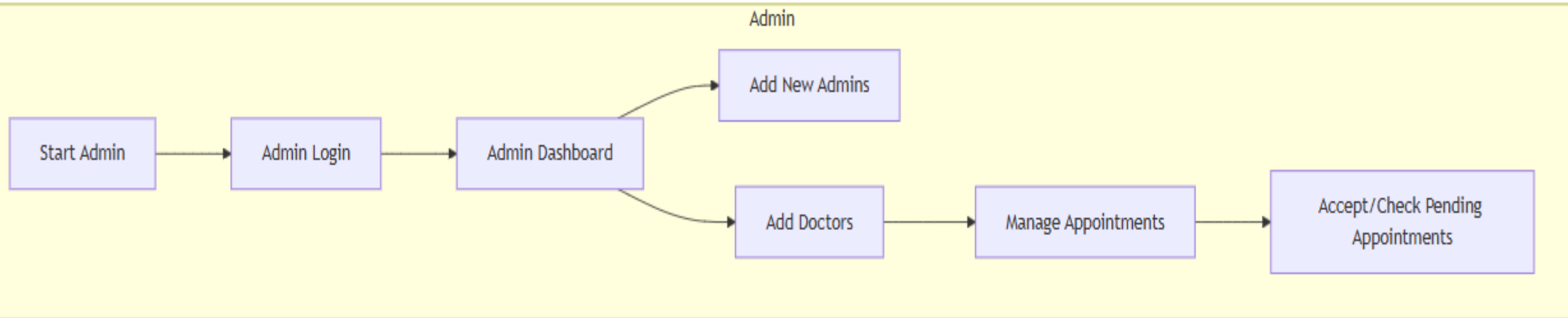
About Hospital Management System

- Our Hospital Management System is built using the MERN (MongoDB, Express.js, React.js, Node.js) stack, ensuring a modern, scalable, and efficient platform.

- It streamlines critical hospital functions such as patient registration, appointment scheduling, medical records management, billing, and staff coordination.

- The system provides real-time updates, secure data handling, and a user-friendly interface to improve workflow and patient care.

- Leveraging cutting-edge technologies, it enables hospitals to enhance operational efficiency, reduce paperwork, and deliver exceptional healthcare services with ease and reliability.
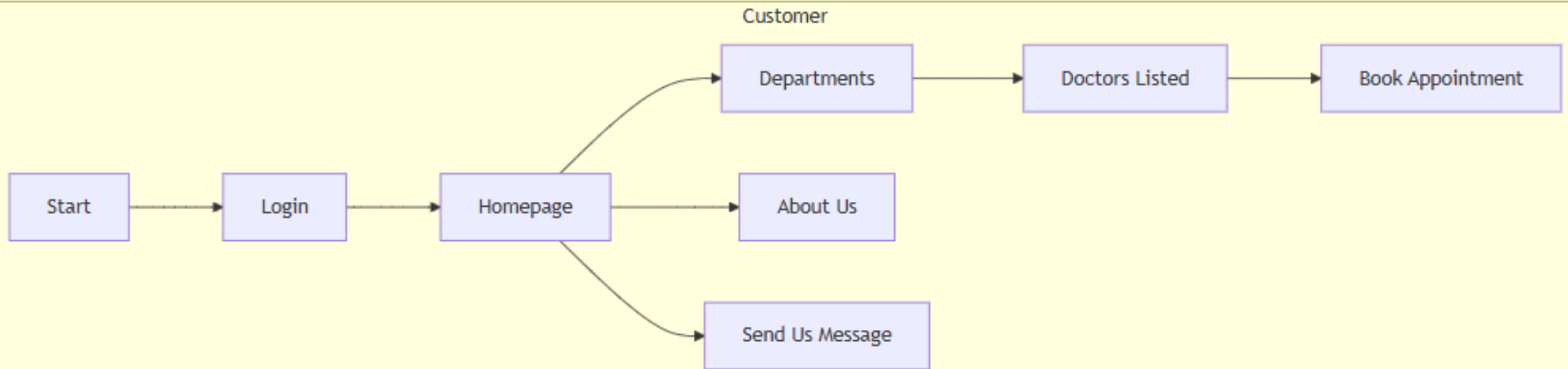
Technologies Used

1. **Mongo DB:** A NoSQL database that stores hospital data in flexible, JSON-like documents, enabling scalable and efficient data management.

2. **Express JS:** A lightweight web application framework for Node.js that simplifies server development and handles routing, API creation, and middleware integration.

3. **React JS:** A powerful JavaScript library for building dynamic, responsive, and user-friendly interfaces for hospital staff and patient portals.

4. **Node JS:** An open-source server environment that allows running JavaScript on the server side, facilitating fast and scalable backend development.

5. **JavaScript:** The core programming language used across the entire stack for both client-side and server-side development.

6. **HTML/CSS:** Markup and styling languages used to structure and design the user interface of the application.

Workflow of the Project

Admin Use

Customer Use

Challenges faced

- The challenge was to provide seamless navigation so that when users click on a certain department, they are instantly shown relevant doctors.

- Ensuring quick and dynamic loading of doctor details based on department selection was a key requirement.

Screenshots

ZEECARE
MEDICAL INSTITUTE

LOGIN

Sign In

Please Login To Continue

Enter Your Credentials to Proceed

Email

Password

Confirm Password

Not Registered? Register Now

Login

HomePage

Departments

Departments

PEDIATRICS

ORTHOPEDICS

CARDIOLOGY

NEUROLOGY

Book an appointment

ZEECARE
MEDICAL INSTITUTE

LOGIN

Department: Orthopedics

Dr. Lee

Specialization: Bone & Joint Specialist

Experience: 12 years

Dr. Kim

Specialization: Sports Injuries

Experience: 9 years

Book an Appointment

Future Enhancements

•Online Payment Integration

Allow secure online payment for consultations.

•Appointment Reminders & Notifications

Send automated appointment reminders via email or SMS to reduce no-shows and keep patients informed.

•Video Consultation Feature

Incorporate live telemedicine consultations for remote diagnosis and treatment.

Conclusion

Our hospital management system successfully integrates backend and frontend functionalities, providing an efficient platform for seamless healthcare operations.

It enhances user experience and streamlines hospital processes for better patient care.

THANK YOU