

Hospital Management System Proposal

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April 22, 2024

1 Introduction

The Hospital Management System aims to provide a comprehensive solution for managing various aspects of hospital operations, including patient appointments, telemedicine, medical records access, analytics, and more.

2 Key Features

2.1 Appointment Scheduling

- **Anmelden:** Allow patients to register and log in to the system.
- **Terminvereinbarung:** Provide a booking calendar for scheduling appointments, with a focus on usability (Unique Selling Proposition - USP).
- **Auslastung:** Monitor and analyze appointment scheduling to optimize resource utilization.

2.2 Telemedicine

- Provide telemedicine functionalities for remote consultations and patient monitoring (USP).

2.3 Medical Records Access

- Allow patients to access their medical records, including prescriptions from past visits.

2.4 Analytics

- Implement analytics tools to analyze hospital operations and patient data.

2.5 Search

- Implement a search feature to quickly locate patient records, treatments, and other information.

2.6 Treatments

- Manage treatments, including medications and procedures.

2.7 Patient Profiles

- Maintain comprehensive patient profiles with information on medications, allergies, and doctor preferences (though not currently utilized).

2.8 Doctor Profiles

- Manage doctor profiles with capabilities such as prescribing medications, ordering treatments, and patient discharge functions (for patient use).

3 Implementation Plan

1. **Backend Development:** Utilize Java and the Spring Framework to develop a RESTful API for handling backend functionalities.
2. **Frontend Development:** Use Angular to create a dynamic and user-friendly frontend interface for interacting with the system.
3. **Integration and Testing:** Integrate the frontend and backend components, and conduct thorough testing with mock data to ensure functionality and reliability.

4 Conclusion

The Hospital Management System will streamline hospital operations and improve patient care by providing efficient appointment scheduling, telemedicine capabilities, easy access to medical records, and comprehensive analytics tools.