

# LITERATURE SURVEY

Conducting a literature survey for a project like CURA Healthcare Service, which focuses on implementing a prior appointment feature in healthcare, involves exploring existing research, technologies, and trends pertinent to healthcare appointment systems and patient experiences. Below is a summarized overview of the literature survey:

## 1. Healthcare Appointment Systems:

- Investigate challenges and inefficiencies of conventional healthcare appointment systems.
- Examine research on the impact of appointment systems on patient satisfaction and healthcare service efficiency.

## 2. Patient Centric Healthcare Technology:

- Review literature emphasizing the significance of patient centric healthcare technologies in enhancing overall patient experiences.
- Analyse case studies or research showcasing successful implementations of appointment scheduling solutions in healthcare.

## 3. User Interface and Experience in Healthcare:

- Explore studies on designing user-friendly interfaces for healthcare applications.
- Investigate the importance of positive user experiences in healthcare technology adoption.

## 4. Realtime Information Systems in Healthcare:

- Review literature on the benefits and challenges of Realtime information systems in healthcare.
- Explore how Realtime systems influence patient outcomes and satisfaction.

## 5. Healthcare Data Security and Compliance:

- Investigate studies on data security and privacy concerns in healthcare technology.
- Examine the impact of regulatory frameworks like HIPAA on healthcare technology design and implementation.

## 6. Mobile Health (mHealth) Solutions:

- Explore research on the role of mobile health applications in enhancing healthcare accessibility and patient engagement.
- Investigate the utilization of mHealth solutions in appointment scheduling and patient communication.

## 7. Impact of Technology on Doctor Patient Relationships:

- Review studies on how technology, including appointment scheduling systems, affects the doctor patient relationship.
- Explore challenges and benefits associated with technology mediated communication in healthcare.

8. Electronic Health Records (EHR) Integration:

- Explore literature on integrating appointment systems with electronic health records.
- Investigate the contribution of seamless data flow between appointment systems and EHR to comprehensive patient care.

9. Machine Learning and Predictive Analytics in Healthcare:

- Investigate research on employing machine learning and predictive analytics to optimize healthcare appointment scheduling.
- Explore how these technologies enhance the accuracy of doctor availability predictions.

10. Global Healthcare Technology Trends:

- Review literature on emerging trends in global healthcare technology, especially those related to patient centric services and appointment scheduling.

The purpose of this literature survey is to build a solid comprehension of the current knowledge and technologies within the field, which will inform the design and execution of the CURA Healthcare Service project. Moreover, it aims to recognize any existing gaps in the literature that the project can fill or enhance.