

# Department of Computer Science & Engineering

## PSIT Kanpur

### Major Project Proposal (2021-22)

Project ID: **22A02**

Project Supervisor:

**Dr.Satyasundara Mahapatra**

Project Title:

**Hospital Record Management System**

Project Domain:

1. **Web Application/Web Services**
2. **SQL Database**
3. **Python**

Abstract:

Medical conditions in countries like India aren't quite impressive. Improvements are needed in almost every corner to tackle the massive population's health issues.

One of the most time and energy-consuming processes that every hospital faces is tracking the patient's records. Even a small public hospital indulges with hundreds of patients every single day. But do they have accurate data about every single person who comes for a visit(besides those ill-treated paper notes)? Not only this, having specific information (like the medication history, health tracking over time, serious allergies) of patients will help the doctors in providing precise treatment without wasting any time.

For easy collection of patient's data we've taken a small initiative. An easy yet innovative solution known as "Hospital Record Management System".

Hospital Record Management System is a project that can be easily set in any medical organization. In normal words, each hospital will have their database in the system, and every doctor will be able to track the complete record of a particular patient. This management system will help the patients as well (besides getting accurate treatment). There's no need for a patient to take care about his medication slip anymore.

If adopted correctly, this management system can turn out to be a revolution for medical organizations.

To establish the Hospital Record Management System, we've decided to build a web application. The conclusion is pretty clear, they're easy to use, anyone can easily access, and it will not take time to adopt the technology.

The application will be accessed by hospital staff(admin branch), doctors, and patients as well.

In our project we are handling patients sensitive data which may be vulnerable to theft .To tackle it we provide Double check biometric security system which will include:-

- I. Patient's fingerprint
- II. Doctor's fingerprint
- III. All the data transfer will be end to end encrypted for avoiding MITM attacks

**Tools/ Technology Used:****1. Hardware Specification:**

- **Operating System:** Windows 7 (32/64) or higher
- **Processor:** Intel Dual Core 1.5 GHZ or higher
- **RAM:** 4GB
- Biometric Reader

**2. Software Specification:**

- Platform Independent
- Visual Studio Code
- Browser (IE9+/Chrome 50+)

**Group Details:**

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