

# E-Healthcare Management System

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## 1 Outline

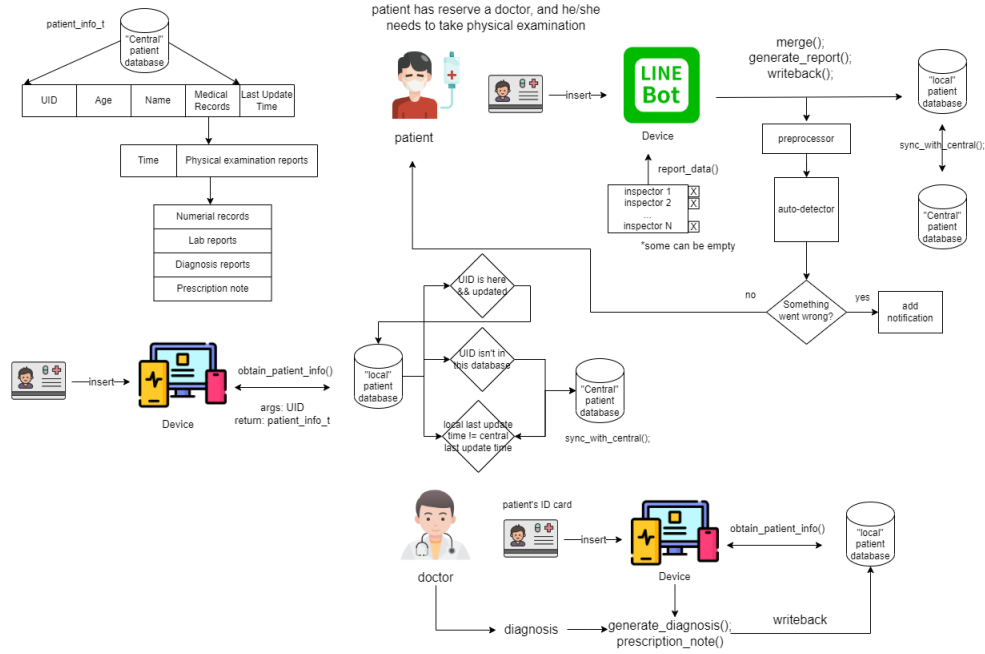


Figure 1: A simple example of outline.

## 2 Features

With this E-healthcare management system, the hospital/clinic can easily sync the information of patients with other health systems, manage the information of patients. For patients, the patient can do most of the things online, for example, make a doctor appointment, look up the medical records and prescriptions, and obtain the physical reports at home. Even more, the system use machine learning to detect the abnormal data in the reports, notify the patient to prevent the disease becoming worse. To conclusion, the major features of the system can be summarized as followings:

- Automatically sync the information of patients between different health systems by using local and central database.

- Facilitate the accessing of medical records and prescriptions, for both doctors and patients.
- Introduce the automatic disease detectors by leveraging machine learning and big data.

### 3 Methodology

#### Database

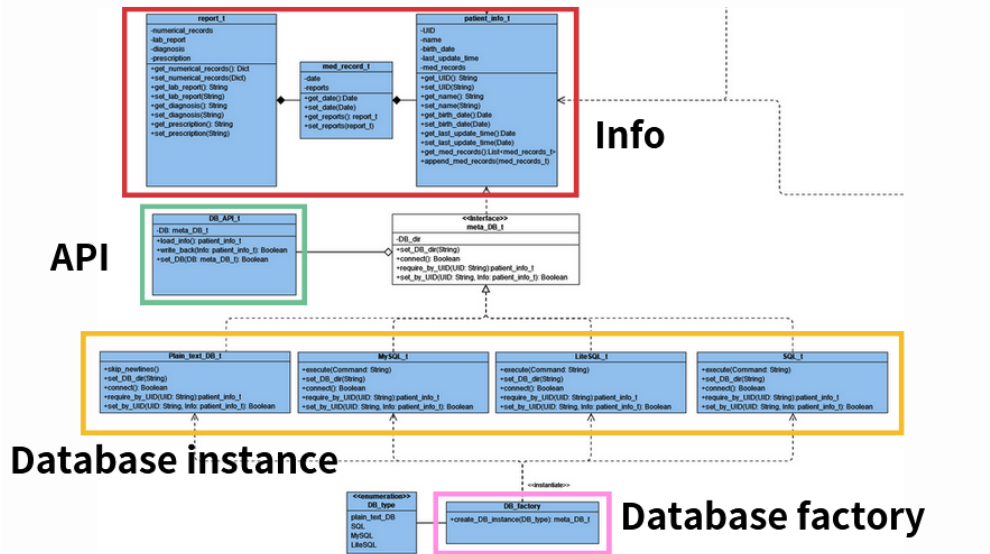


Figure 2: The UML of the whole database.

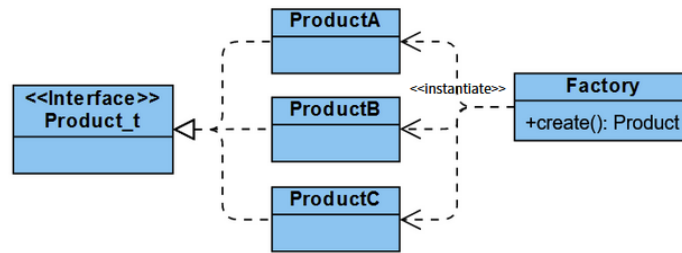


Figure 3: The UML of a simple factory.

#### 4 Code

#### 5 Conclusion

#### 6 Contribution