

SJSU

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Team 5

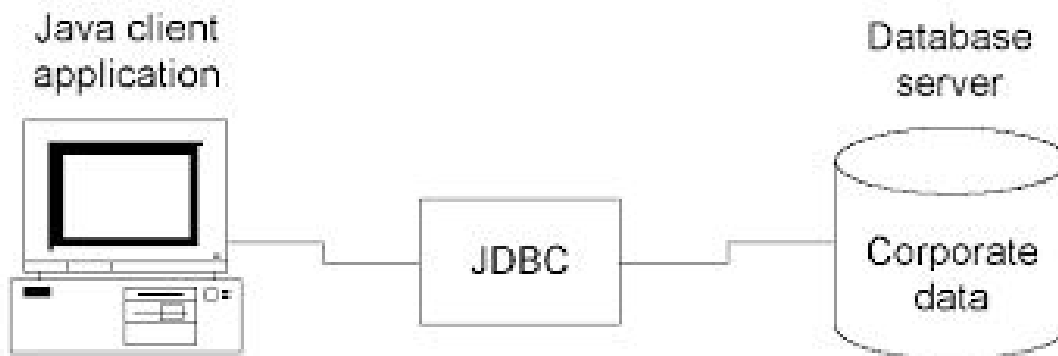
CS157A Section 08

## Project Description

This project will be a database application that is based in the Hospital domain. The goal of this hospital database application is to provide a convenient way to record and manipulate data in the hospital system. Hospitals will be able to easily organize their employee and patient data. This application will also be designed so that only those who are authorized to access certain information (e.g., the type of drug that is given to patients) are able to do so. This application will also provide a user-friendly interface that is clear and intuitive.

## System Environment

### Structure of the System



Source:- <http://www.upi.pr.it/docs/easfg/easvrfgp27.htm>

### Hardware and Software used

- MySQL server

### RDBMS

- MySQL Community Server 8.0.20

#### Application Languages

- Java 8, Java EE 7, HTML, CSS, Javascript, XML, SQL

### **Functional Requirements**

#### How users will access the system

The system provides functionality for multiple types and subtypes of users: Doctors Patients Supervisors Secretary and Nurses. some of the requirements for this project include: giving patients the capacity to see their medical records and doctor's notes, giving the doctors the ability to see their patients' records, enabling doctors to insert data about their patients, and giving full access to supervisors only. also creating a secure database so that patients' information is not being accessed by unauthorized people, including different institutions.

#### Describe each individual function, functional process and I/O

Functions:

Doctors

- Access their own patients' information
- Enter test results
- Enter own notes
- Order tests and drugs

Patients

- Access their own medical histories
- Access the doctor's notes
- Access doctor orders and lab results

Supervisors

- Access all patient histories

- Access all doctors' notes
- Access information about the drug, lab results of all patients
- Add and remove patients from the database

#### Front desk

- Access to the patients' and doctors schedule

#### Nurses

- Enter patients medical data including blood pressure, heart rate, and weight
- Access to the patients' and doctors schedule