

INFO 5100 Final Project Proposal

-----Hospitalization Management System

Background:

As the hospital information construction process proposed by New Medical Reform continues to deepen, Electronic medical record system, as an important tool to promote medical reform and improve hospital management and service level, is widely used, at the meantime, received more and more attention. In the current hospitalized electronic medical record system, there are many deficiencies, such as incomprehensive functional modules, inflexible display interface, weak quality control links, limited information retrieval and analyzing capability and so on, which is difficult to meet their clinical business needs and has a certain impact on the overall development of the hospital. In view of this situation, this project optimize the original hospitalized electronic record system.

Project Description:

According to user needs, the actual hospital business content and processes, the system design guidelines is determined, at the same time, the function of hospitalized electronic medical record system is analyzed from the aspects of business module and role definition. Finally, the Hospitalization Management System designs from the system function module, system database and other aspects.

Model Description:

Role:

1. System Administrator

Attributes: User Accounts, Person Information.

Function: CRUD operations for person and user accounts, lab examinations, and wards (patients living in hospital)

2. Doctor

Attributes: Belonging Departments, User Account, Person Information.

Function: Medical Record, Doctor's advice, Manage patients' status

3. Nurse

Attribute: Belonging Department, User Account, Person Information.

Function: Manage ward, Assign beds

4. Pharmacy

Attribute: User Account, Person Information, Medicine Directory.

Function: CRUD operations for all medicines, assigning machines for doctors for specific treatments.

5. Lab Assistant

Attribute: User Account, Person Information.

Function: Conduct medical examination and technologies operations.

6. Patient

Attribute: User Account, Person Information(can edit)

Function: Make an appointment, Check personal information

Relationship between models:

Eco-System

Human Resource Enterprise

-- Admin Organization

Doctor Enterprise

-- Various Department organization's(surgical, internal medicine, ENT)

Nurse Enterprise

-- Nurse Organization

Pharmacy Enterprise

-- Pharmacy Organization

Patient Enterprise

-- Patient Organization

Lab Enterprise

-- Lab Organization