In this project you will design and implement a database application. You will work in groups of two or three students. The project is carried out several main steps:

1. Conceptual design using the E-R model. Specification of some of queries and transactions for your system.

2. Translation of the E-R model into the relational model. Refinement of the design (into at least 3NF schemes, preferably BCNF or 4NF schemas). Complete specification of queries and transactions for your system.

3. Implementation: Creation of database tables, data entry, design and implementation of queries and transactions, and Web-based interface design.

Your final report should contain (1) The final ER design, (2) The final relational design, including listing of all tables (schemas), keys, and data dependencies, (3) Data (current at demo time), (4) Queries and application programs. (5) You should also indicate, for each member of the group, which parts/tasks were implemented by that member.

Your system should be easy to use. I should be able to check your project by going to the home page of your system. If possible, each team will demonstrate their project online. All members of the team should be present at the time of demonstration.

THE PROBLEM:
You are to design and implement a “Medical Information System”. Different systems will be designed by teams, such as information systems for (1) a hospital, (2) a doctor or group of doctors, (3) a pharmacy, and (4) a medical laboratory.