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Finals Report

**Hospital Portal System Report**

By facilitating online communication between patients and their physicians, the Hospital Portal System significantly enhances the management of patient records at healthcare institutions. The essay explores the code's structure, features, and the reasons behind its development in great detail.

**Functionalities**

Through specialized interfaces, the system enables the easy insertion of both patients and doctors. Pass requests to add physicians and patients are handled by the do\_GET function in portalServer.py. Ensuring data integrity is performed by the scheduleAppointment function in portalDatabase.py during database insertion.

One important feature that is included in portalServer.py through the do\_GET and do\_POST methods is the ability to schedule appointments. When it comes to foreign key constraints, the scheduleAppointment function in portalDatabase.py makes sure that appointments are inserted securely.

Patient data and appointment details may be seen with ease using the do GET function in portalServer.py. Through the getAllPatients and getAllAppointments functions in portalDatabase.py, the presented data is retrieved from the database.

When a patient is ready to be discharged, the discharge date can be changed in the database. In portalServer.py, the do\_GET function processes discharge requests, but in portalDatabase.py, the dischargePatient method changes the records.

While the system is useful enough as it is, it may be much better with future updates that prioritize security:Only authorized staff should be able to access and edit patient data and appointments. One way to do this is by implementing a user authentication system.

Optimizing a database is an ongoing procedure. As the amount of data continues to grow, future efforts may focus on: - Query Optimization: By studying and improving database queries, system performance may be improved.

In conclusion, with its all-inclusive solution for medical record management, the medical Portal System accomplishes all project requirements. Working together on the project helped us overcome obstacles and learn a lot about how to better organize our code and construct our databases.