

Team Statement

Health Track is a health care web application designed for a small team consisting of a medical clinic, a nursing staff, a pharmacy and a two person lab. The application will work with a menu interface to access databases consisting of patient records, physician schedules, lab and pharmacy orders, insurance billing and equipment maintenance. Data will be ordered in a relational database to ensure physician-patient relationships are maintained.

Performance

The system should be able to respond to all transactions between the user and the application within 5 seconds. All logged information should only need to be entered once and proliferate throughout the appropriate parts of the database. The application will be web based.

Varying levels of security access dictate the amount of information that can be seen. A password is required on every login. On a transaction, the application will label and log the transaction with the user's name, date and time, check for errors before a user can continue, and process names in cases of special characters.

Specific System Requirements

General Health Track Framework	<ul style="list-style-type: none">● Access subsystems from a Main Menu● Manage logon process● Allow system-level authorized users to maintain and reset user information● User information:<ul style="list-style-type: none">○ User name○ User employee number○ Job title○ Password○ Allowed subsystems
Electronic Patient Record	<ul style="list-style-type: none">● Maintain patient information, healthcare encounters per patient/physician●

Physician Scheduler	<ul style="list-style-type: none"> • A calendar manages the physician schedule: <ul style="list-style-type: none"> ◦ Let user block time by half hours, or more (Half days) • Search for next available time slot depending on type of visit • Within reason, if there is no time slot other physicians can be prompted at request of user
Lab Order Tracking	<ul style="list-style-type: none"> • Manage information on all lab tests ordered by physicians • Search can be done by patient name, date ordered or performed, or by ordering physician • Can send users urgent messages if immediate attention is required based on results
Pharmacy Order Tracking	<ul style="list-style-type: none"> • Manage information on all prescriptions ordered by patients • Can receive prescription information by prescription ID or patient name
Insurance Billing	<ul style="list-style-type: none"> • Used to bill patients/insurance carriers, including appointments, lab work and prescriptions • Maintains information of each insurance carrier • Users can request monthly invoices be mailed to the patient/insurance carrier
Equipment Inventory	<ul style="list-style-type: none"> • Maintain information on medical equipment <u>owned or leased</u> • User maintained list of typical problems reported for vendor analysis and problem facilitation • User defined list of vendors of the vendors the equipment was purchased or leased from

*A print function must be available for every part of the system, printing will work slightly differently depending on the system, as certain systems may require more in depth print functionalities