

Med Scribe Pro
Online Medical Prescription Application

Team Members

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Project Goals:

The overall goal of this project is to plan and implement an online application that allows Doctors, Patients, and Pharmacist to share important medical information via secure online databases. Our main goal is to manage medical prescriptions by allowing Doctors to write digital prescriptions assigned to a patient and Pharmacists to read the prescription of a particular patient. There will be three distinct user groups in this system (*Doctors, Pharmacists, and Patient*) each of which will have its own features and user interface.

The Doctors Group will have the following features:

- Allow Doctors to write Digital Prescriptions that are linked to a Patient ID.
- Allow Doctors to view and add to a Patients Electronic Medical Record (EMR).
- Allow Doctors to attach documents to a Patient's EMR. (*X-Rays, Cat Scans, etc.*)

The Pharmacist Group will have the following features:

- Allow Pharmacists to read Digital Prescriptions based on a Patient ID.
- Allow Pharmacists to see all medications a Patient is currently on. (*If a bad combination is found it can be flagged*)
- Allow Pharmacists to attach notes to a prescription.
- Send Automated Emails to Patients containing Medical Instructions about medications they have been prescribed (*also attach any Pharmacists notes*).

The Patient Group will have the following features:

- Allow Patients to update their personal information.
- Allow Patients to read and print their Electronic Medical Records (EMR).
- Allow Patients to access information about medications they've been prescribed.
- Allow Patients to give Doctors access to their Electronic Medical Records (EMR).

All three of these user groups would work in tandem via a database. Each user group should have a different user layout to perform to meet that particular groups needs. We plan to use Joomla (*An Open Source Content Management System*) as a starting point for this project so we can worry less about small details such as login management and focus more on the core requirements of the system. As well as the Joomla CMS, we will be primarily writing the code using php, mySQL, html, xml, and css languages.

Motivation:

Our motivation for this project is to help the medical industry. Currently medical prescriptions are hand written and are often filled incorrectly due to being misread or poor handwriting. The Med Scribe Pro Software solves this problem and implements many other useful features, such as the ability to automatically flag medications that may not work together.

The Med Scribe Pro Software can be easily integrated into any medical office. Because Med Scribe Pro is an internet application the only requirement of the client is any computer with an internet connection. Therefore cross platform communication amongst the system is possible.

Med Scribe Pro has the ability to be expanded and continually updated. In the future it could be updated to allow Doctors to keep their appointments in an integrated appointment manager. Future Updates could allow Pharmacies to keep track of inventory, and allow patients to find the best rates on medications based on their insurance plans.

Currently our team members have backgrounds in web development, databases, medical history, and software applications. Med Scribe Pro allows our team to pursue our individual strengths while providing the opportunity to learn and engage with other useful development techniques throughout the process of this project.

Project Milestones

Milestone 1: Create the Requirements, Design, and Test Documentation.

Milestone 2: Create and Structure the Databases that will be used for this system.

Milestone 3: Implement, test and demo the Prescription Function for both Doctors and Pharmacists

Task Matrix (Milestone 1)

Task	Alijawaad	Josh	Mohammed	Sultan
Requirements	15%	15%	15%	55%
Design	15%	55%	15%	15%
Test Design	40%	10%	40%	10%

"I have discussed with the team and approve this project plan. I will evaluate the progress and assign a grade for each of the three milestones."

- Signature: _____ Date: _____