

Electronic Health Records Managment

for

Independent Health Care Service Providers

Requirements Engineers:

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1 Product Overview

We envision the creating of a Electronic Health Records Management System that empowers independent health care providers to effectively create, maintain and provide access to patient records. The System will push the ownership of medical records towards the patient. We see the ability to provide enhanced security that meets and excess Health Insurance Portability and Accountability Act (HIPAA) requirements without burdening the providers with excess legalese. We see the system as a way for providers to give patients ownership over their health records and inspire patient loyalty with easy-to-use public facing interfaces for patient applications (mobile applications/website access);

2 Stakeholders

2.1 Domain Viewpoint Hierarchy

2.2 Description of Stakeholders

2.3 Priority Stakeholders

- Independent Health Care Providers
System main customers
- Patients
Systems design goal to give patients ownership over medical records.
- Health Care Provider Office Personal
First point of contact with The System.

3 Operational Reference Model

Assuming that the best telescope for your work is one of the two 0.5 meters (CDK20N at Moore Observatory, CDK20S at Mt. Kent), you will have a choice of filters: Sloan filter set (g, r, i, or z), Johnson-Cousins (U, B, V, R, or I), color imaging (B, G, R, or clear), and narrow band (S [II], red continuum, H α , O[III]). Identify which filters are of interest.

A typical exposure time for a magnitude 12 star to about half saturation is 100 seconds, but it depends on the filter choice. Based on this, estimate how many exposures you will need, and what total time you require. In some cases, for example studying an eclipsing or variable star, or an exoplanet transit, you would use only one filter and make many measurements over a night. In others, you may make only a few exposures in each filter, and try many different filters. Changing filter sets takes an operator and several minutes, but changing filters within one set (e.g. a different Sloan filter) takes only a few seconds.

We have other telescopes that may be available at Moore Observatory this season. There is a wide field astrograph that has a field of view of 4° and is a fast $f/4$, especially good for

large nebula, comets, or surveys. A 14-inch (0.36 meter) Celestron telescope can be equipped with a fast camera for planetary imaging. A 27-inch (0.7 meter) corrected Dall-Kirkham is scheduled to be delivered to Australia this fall, although we are unsure of the actual date it could see light yet.

References

- [1] Jonay I. González Hernández, Pilar Ruiz-Lapuente, Hugo M. Tabernero, David Montes, Ramon Canal, Javier Méndez and Luigi R. Bedin, No surviving evolved companions of the progenitor of SN1006, *Nature*, **489**, 533-536 (2012).