

# Project Overview

## Online Medical Profile

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# Project Description

A system that centralizes patient medical records allowing patients to have one medical profile that includes all their medical history and allows them to share it with doctors that they visit.

Similar to Electronic Medical record (EMR) softwares being used in most hospitals today, it will allow doctors to view and edit medical records but it will be a system that is not limited to a specific hospital or country but can be used by patients and doctors internationally.

Like any type of data gathered, patient data can be very useful to help us understand the nature of some illnesses, we aim to explore ways to use that data to find trends across similar patients that might help doctors in learning from mistakes or possibly finding cures to certain diseases while respecting the laws set to protect patient records and confidentiality.

## Competition

### Oscar EMR

**Website:**

<http://oscar-emr.com/>

**Demo:**

<https://www.youtube.com/watch?v=DGqDUcCNww0>

**Description:**

OSCAR is an open-source electronic medical record software that is advertised to be secure, cost-effective, and feature-rich. This software includes many useful features for doctors to provide a more rich experience for patients such as scheduling, billing, medication registry, and patient records. The strength of Oscar is that it provides a wide ranging amount of features in just one software.

At its core OSCAR is a software with the doctor as the primary focus. What we offer is a software where both the patient and the doctor will be the focus. Patients will have an electronic medical record that is accessible at any time and can be presented to any doctor. Instead of having multiple features that are less developed, our target will be on having a full-fledged patient record with an intuitive and modern user interface which OSCAR does not currently provide.

# OpenMRS

**Website:**

<http://openmrs.org/>

Demo: <https://demo.openmrs.org/openmrs/login.htm>

Username: admin

Password: Admin123

**Description:**

OpenMRS (Open Medical Record System) is an open source medical record system platform for developing countries. The focus is on improving the lives of underprivileged people worldwide through health care service and advocacy.

The software platform enables the design of customized medical records systems with no need of programming knowledge. "The system is based on a conceptual database structure which is not dependent on the actual types of medical information required to be collected or on particular data collection forms and so can be customized for different uses."

**Our offer:**

OpenMRS allows one to create a complete software medical platform which stores patient information such as diagnosis, tests and procedures. What we propose is more patient oriented in that they carry their medical history with them. In cases where a patient is visiting a new doctor or in emergencies their history will be available. OpenMRS does not offer this feature.

# Telus EMR

**Website:**

<https://www.telushealth.co/health-solutions/electronic-medical-records/products/mobile-emr/>

**Demo:**

Telus EMR Mobile - App Demo

<https://www.youtube.com/watch?v=j7nilzHf9lE&feature=youtu.be>

**Description:**

The Telus EMR Mobile application enables medical professionals (e.g. physicians, pharmacists, etc.) to upload patient photos, access patient medical profiles and history, manage visit notes, and schedule appointments. The application is convenient because it offers a "anywhere,

anytime" experience via mobile devices. It is meaningful because professionals are provided with essential patient information that leverage their ability to take care of patients. It is also secure because the solution does not permanently store patient information locally on devices. Finally, the product is user-friendly because patient data is clearly and concisely presented across all mobile operating systems.

While Telus is the largest EMR provider in the country and appears to be a strong competitive with its Telus EMR Mobile solution, Telus fails to offer a patient-first experience. In addition to offering the same ideal characteristics, our proposed project will first and foremost focus on giving patients ownership of their medical records. In fact, our product may be viewed as something similar to a "medical passport". Telus EMR Mobile has scaling issues because of the overhead in cases where medical information needs to be shared between doctors of different hospitals or clinics.

## Our Stakeholder

Our stakeholder is Antony Robert, an emergency medicine resident at McGill University Health Center. For more information please consult on Antony's LinkedIn profile:

<https://www.linkedin.com/in/antony-robert-69719b6/>

## Experience

Antony believes that technology can be used to solve some of the major problems with our health system and provide a better experience for patients. He started his career as a software developer but was eager to learn about the challenges that face the medical world. He did his masters in Biomedical engineering at Ottawa University and was an active member of the tech community. Having been part of several medical related startups, he decided that he needed an insider prospective and enrolled in the faculty of medicine at McGill university.

## Why is the stakeholder interested in us?

Antony currently works closely with the departments that handles patient medical records at McGill university and identified that the system currently in place for storing medical records is highly inefficient and a source of problems for doctors that currently use it. He is looking for a product to that will help solve some of the issues that are present with the current health system and is interested in exploring new ways of tackling these issues.

# Research

## Search terms:

- Open Source medical software
- Online Medical records
- Electronic Medical records
- Laws for protecting Patient records
- HIPPA
- PHIPA
- HIPPA vs PHIPA
- medical software record
- Sap healthcare
- Quebec Medical Services
- Mobile health records
- How to access RAMQ medical records?
- How to verify certified doctors?

## Pages examined:

- 1 [Personal Health Information Protection Act \(PHIPA\)](#)
- 2 [HIPAA \(Health Insurance Portability and Accountability Act\)](#)
- 3 [Medical Records: How to Get Access](#)
- 4 [Electronic Medical Record \(EMR\) used in canada](#)
- 5 [RAMQ: Health Insurance & Medical Services](#)
- 6 [Telus Electronic Medical Records \(EMR\)](#)
- 7 [Board Certified Doctors](#)
- 8 [Healthcare Datasets](#)
- 9 [Quebec Health Records](#)
- 10 [HIPAA for Professionals](#)
- 11 [Open Source Electronic Health Record](#)
- 12 [United Medical Information and Analytical System of Moscow](#)
- 13 [Microsoft Amalga](#)
- 14 [cottagemed](#)

- 15 [popHealth](#)
- 16 [Debian Med](#)
- 17 [Hospital OS](#)
- 18 [GNU HEALTH](#)
- 19 [agfa impax](#)
- 20 [Computer Stored Ambulatory Record](#)
- 21 [THIRRA Electronic Health Records Systems](#)
- 22 [EPIC](#)
- 23 [Going Mobile: How Mobile Personal Health Records Can Improve Health Care During Emergencies](#)
- 24 [My Medical](#)
- 25 [Healthpek](#)