Abstract
The goal of this project is to develop a new patient Web portal that customers of Aprima Medical Software Inc. can provide to their patients to view information like their appointments, medications, and allergies. A similar solution from Aprima already exists, which they include in their sales package to their clients. However, the existing portal looks dated as its user interface has not been updated in a few years. This team’s job was to update the user interface of the existing patient portal using new Web technologies like HTML5 and Angular JS. Aprima as a company is also moving towards a single backend in REST that provides the information for their various frontend interfaces such as its patient Web Portal and a mobile Web app.

Results
Below are two screenshots of the system. The demographics screenshot displays the information of the patient using the application.

Architecture
This project will create a positive impact for all the parties involved: Aprima, the doctors, the patients, and the UTDesign team working on this project. Doctors would benefit from the Web Portal by allowing them to interact with their patients easily without having to tell the patient to come in for a visit. They would also benefit financially through the MU (Meaningful Use) funding that the government gives physicians for using web portals. The patients would benefit by having a direct online messaging system to interact with their physician. They also have an easy way to see their information, like their allergies and upcoming appointments. Aprima benefits by having a modern and useful web portal that they can sell. As for us the UTDesign students, the earned value for us would be to learn the plethora of Web technologies that were used for this project.

Impact
The ubiquity of the internet led to the creation of Aprima’s first Web Portal which allowed patients to have easier access to their information without having to call or go to the doctor’s office. Each patient’s personal portal will be unique, accessible via a username and password. Since there is already a working Web Portal built in ASP.NET, Aprima’s main goal for this project was to re-do it and make it more user-friendly. We replicated all the features on the current Web Portal into the new one. Through the HTML5 MU2 compliant Web portal, Aprima wants to provide patients of their corporate clients with a smart and intuitive Web application. Patients will be able to access their electronic medical records through this Web portal. By using an Angular JS foundation with a REST API as the back-end structure and the front-end was HTML5 and CSS with Bootstrap.js for the implementation of this project, the Web portal will be made accessible through any platform while still providing the same user experience. This project incorporates Aprima’s existing modules to the Web portal.