Abstract
This project was supported by Aprima to develop a mobile patient web portal. Aprima had a web portal that can be accessed by patients via the web which allows actions such as managing personal data, viewing prescription information, viewing appointment information, etc. But this portal was not optimized for mobile devices. As mobile devices are increasingly becoming more and more common place, more patients want to access the web portal using mobile devices. The purpose of this project was to optimize this portal for mobile access without the need for a separate code base to reach each mobile platform (e.g. iOS and Android.) This was accomplished using the Bootstrap library and Less.js to alter how the site is shown depending upon the device that the client uses to access the web portal.

Results
Below is a an example before and after of the mobile optimization.

Summary
The project improves mobile user experience by using Bootstrap and Less.js to customize the view presented to the user depending upon the width of the users device. This prevents the need to create separate mobile applications for each mobile platform on the market while still providing mobile users with a fully featured application.