Abstract
Aprima is a healthcare software solutions company who is dedicated to "leveraging information technology to make it easier for physicians to practice medicine and run their businesses." Their solutions include Electronic Health Record (EHR), Practice Management (PM), and Revenue Cycle Management (RCM).

We were tasked with brainstorming, designing, and implementing an iPad app for patients to fill out questionnaires provided to them by their physicians in the office. The patient signs in with their predetermined username and password and is then presented with a list of questionnaires assigned to them by their physician. The patient may then fill out the questionnaires one by one, reviewing their answers as they finish each survey. The questionnaires are then reviewed and accepted by the physician’s office and integrated with Aprima’s other software solutions such as the EHR.

Architecture
Ionic Framework
Ionic is a framework used to create hybrid apps, apps that are developed using Javascript, HTML, and CSS which can then be rendered by a mobile operating system such as iOS. We chose to use this framework to develop our app because we believed it offered the maximum amount of versatility.

AngularJS
AngularJS is a structural framework for dynamic web apps. It extends the functionality of HTML's syntax to allow you to express one’s application's components clearly and succinctly. We chose to use AngularJS not only because it is recommended by the Ionic Framework, but also because it makes programming dynamic apps fun and easy.

Material Design
Material design is a design language created by Google. It is a comprehensive guide for visual, motion, and interaction design across all platforms and devices. We chose to use Material Design in our app because we believed it was the best way to give our app a clean and intuitive user experience.

Impact
Efficiency. The app will make it easier and faster for patients to complete any and all paperwork their physician provides to them.

Convenience. It will also make it easier on the physicians, as all of their client’s data will automatically be sorted and filed using Aprima’s other solutions.

Choice. Due to our design decision to develop the app using the Ionic Framework, we provided Aprima with the power of choice. If they so choose, they may easily make the app more accessible by compiling our code to work with the Android OS as well.

Results

Summary
Over the course of the semester, our team made consistent and steady progress while building the app. Through guidance from Matt and Devon from Aprima, we were able to make quick work of design decisions for the software and the user interface.

Overall, our decision to focus on the user experience while using the app has had the biggest impact on the app itself. The app is simple to use, easy on the eyes, and uncomplicated in nature.

We would like to thank our faculty advisor, Professor Ovidiu Daescu, for all of his encouragement and kind words. We would also like to voice our appreciation for our sponsors from Aprima, Matt Spradley and Devon Gilbert, for their support and counsel during the semester.

As a result, our app is slated to be released by Aprima in production.

Thank you for reading!