

Mobile Survey Application - myEczema

Partners Connected Health (PCH) chose ObjectFrontier to deliver a contemporary mobile application to support parents and guardians of children with pediatric eczema. The application enables parents to gain a thorough understanding of the disease's major characteristics, including symptoms, severity ranges, population demographics and more. The first release of the myEczema application provides the foundation for further research and collaboration on treating pediatric eczema.

Working closely with Partners Connected Health, the OFS team designed and delivered a hybrid mobile app using the Ionic framework.

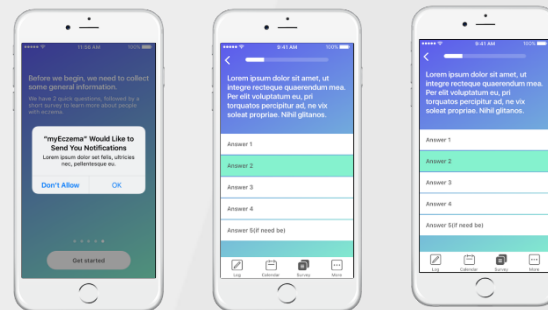
Business Benefits:

PCH and the National Eczema Association benefit from...

- Greater connection with parents of pediatric eczema patients
- Better understanding of the overall condition attributes and severity against various criteria such as number of children, demographics, age, etc.
- Improved collaboration on treatment and severity conditions
- A foothold on enhanced patient care

Parents and guardians of children with eczema benefit from...

- Insight to their children's eczema conditions
- Effective treatment plans and guidelines
- Improved disease management



Key Highlights

- **Treatment Plans** - OFS created screens and UX to enter treatment information.
- **Resources Pages** - Resources Pages are hard-coded with a static link to external websites for more information. Websites open outside the app.
- **Push Notifications** - We implemented a **push notification** to send reminders for the survey based on the last entered survey date and used the AWS SNS service to generate notifications.
- **Special Features** - Screens for **QOL Survey** and **Itch Survey** have photo attachment, free text journal-type entry, and flagging for **Itch Survey** responses.
- **"Itchiness" Severity Rating** – A calendar view shows the latest itch rating and attachments.
- **Reporting** - The app generates CSV files on certain data attributes from DynamoDB.
- **Documentation** - This prepares minimum details of the architecture, platform, instance, interfacing and database.
- **APIs via AWS Mobile Hub** – OFS implemented AWS Mobile Hub components to develop APIs for the app.
- **Authentication** - Endpoint creation is authenticated using IAM based on the Cognito user pool.
- **Survey Management** – We created screens to view **terms and conditions**, credit for Partners, and NEA with NEA's contact information.
- We created screens to view survey status
- We created ARN endpoints for SNS **notification** from the APP

Technologies

- AWS - Cognito, DynamoDB
- UI Frameworks - Ionic 1.X (Cordova), AngularJS
- Languages: HTML5, JavaScript, CSS
- Supported platforms: iOS 8+, Android 4.4+