



MOVE HEALTH DATA FORWARD CHALLENGE

DEPARTMENT OF HEALTH & HUMAN SERVICES

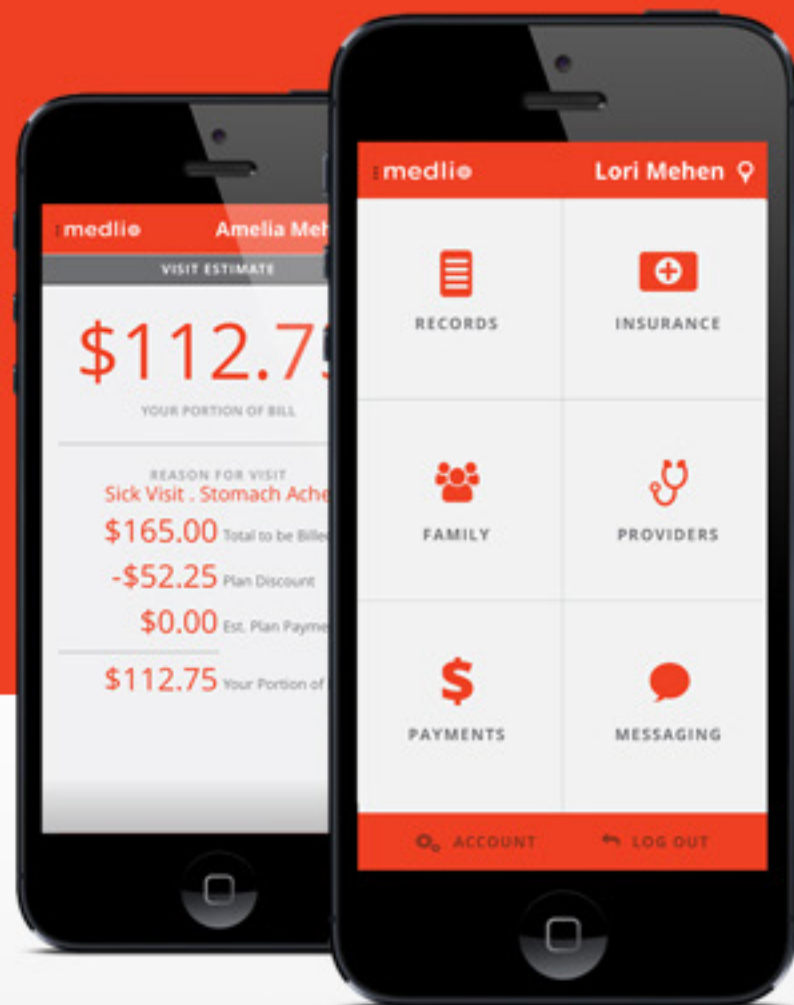
BRIEF DESCRIPTION OF PROPOSED SOLUTION

Medlio offers a digital check-in solution that allows consumers to use a smartphone-based “virtual health insurance card” application to complete the traditional check-in process. While the virtual health insurance card application supports digital check-ins to provider offices utilizing the Medlio provider application, it can also be used independently by consumers to access, aggregate, and manage both clinically-generated (EHR and patient portal data), as well as patient-generated data (wearables, consumer mobile app, as well as patient entered data and annotations to clinically-generated data).

Using the HEART WG implementation, we are allowing users to specify access authorization policies directly within the virtual health insurance card application. As the workflow screenshots highlight, this allows users to generate UMA profiles for providers, facilities, family members, and others, within the normal flow of the application. Furthermore, it allows users to easily define the scope of data being shared - from top-level general categories, such as immunization records, to discrete, granular level information, such as a specific medication. The user can also define date ranges of data to be shared, and can set the period during which data “requesters” can access the information, ranging from one-time to indefinite access, as well as a specific access termination date.

APPLICATION SUMMARY

Virtual Health Insurance Card for Digital Checkins

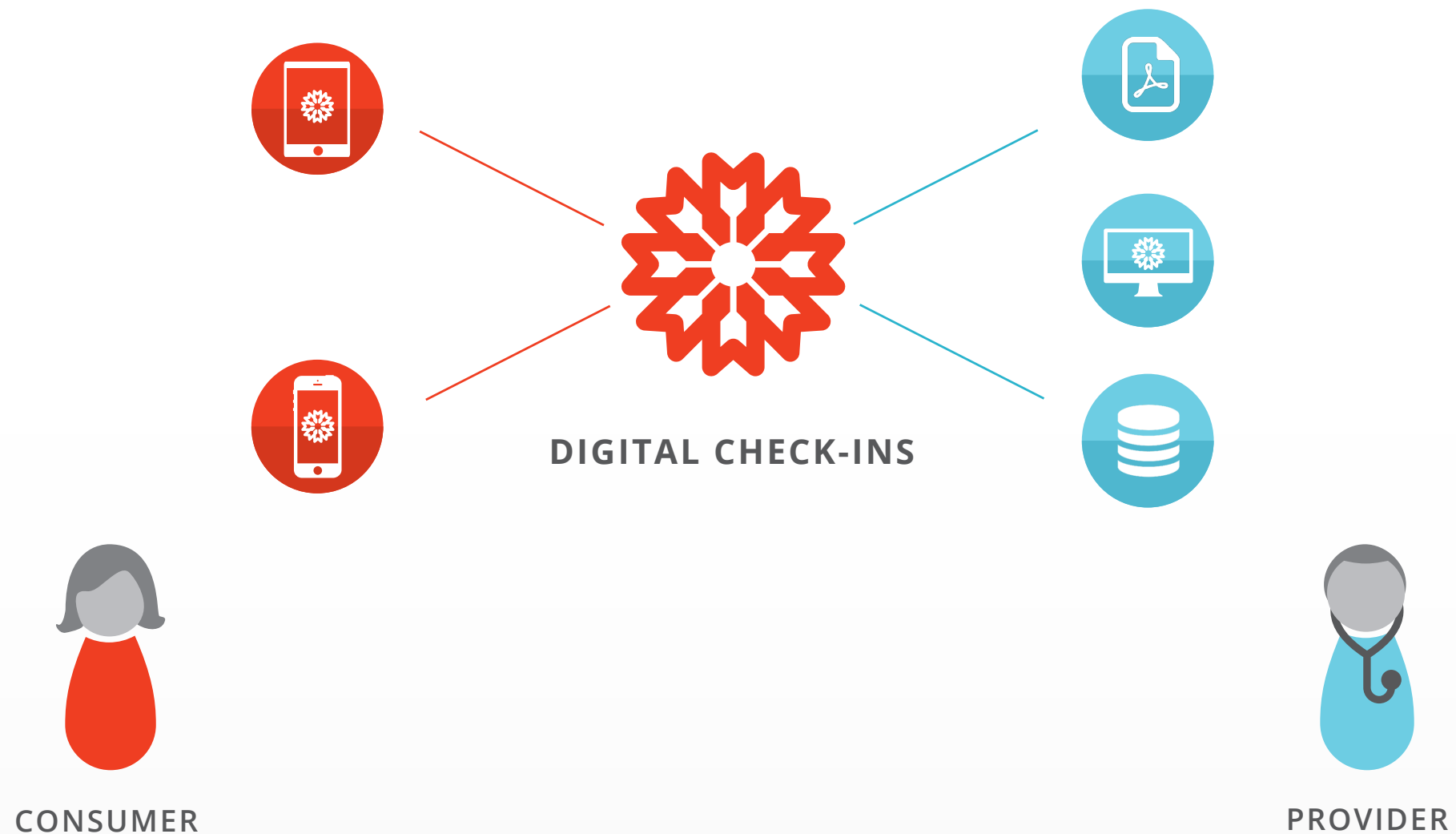


 PATIENTS



 PROVIDERS

ANTICIPATED BENEFITS/VALUE



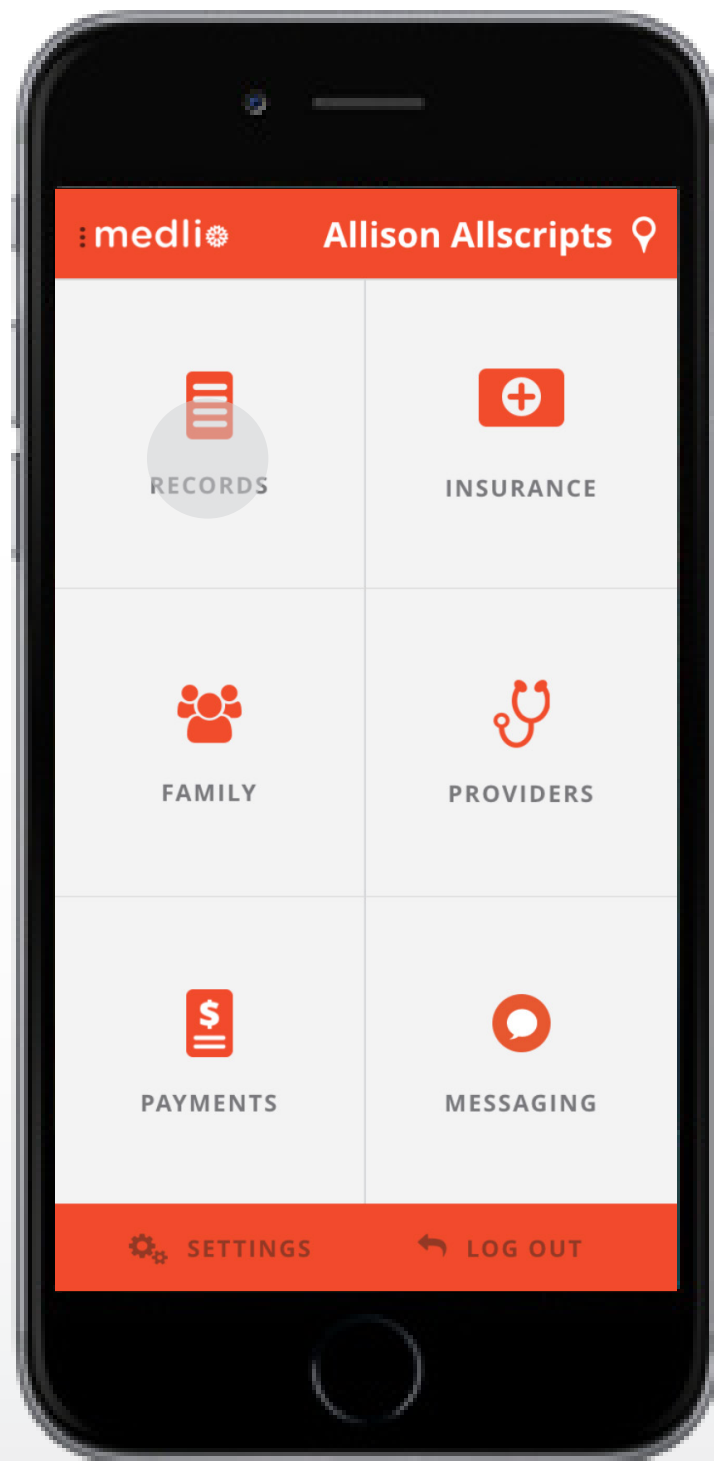
- + iPad or smartphone check-in
- + Clinical and patient-generated data
- + Virtual health insurance card
- + Up-front price transparency

= THRILLED (EXCEPT FOR THE FLU)

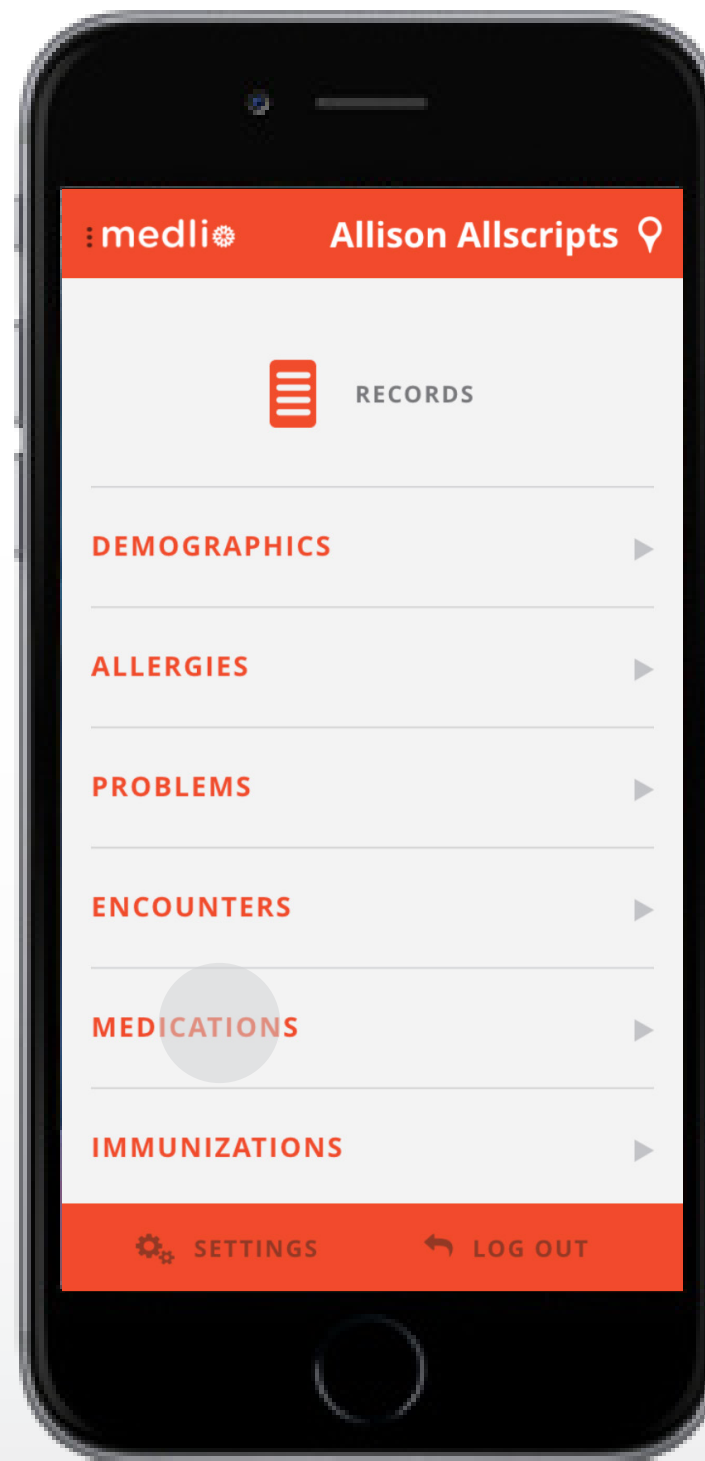
- + Legible, structured documents
- + Comprehensive data
- + Real-time eligibility & price transparency
- + Mobile payments

= HAPPY CAMPER

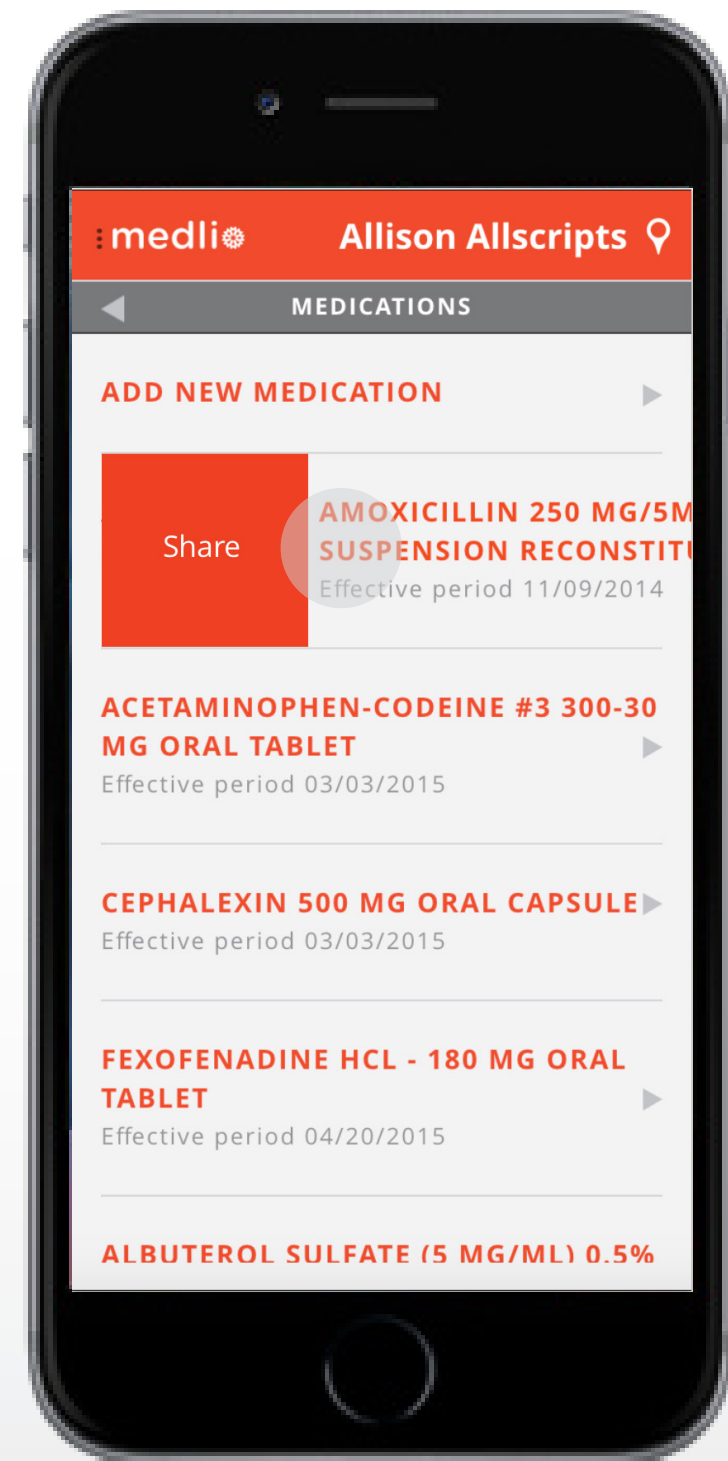
SPECIFIC MU3 COMPLIANCE: PATIENT ENGAGEMENT



Home Screen

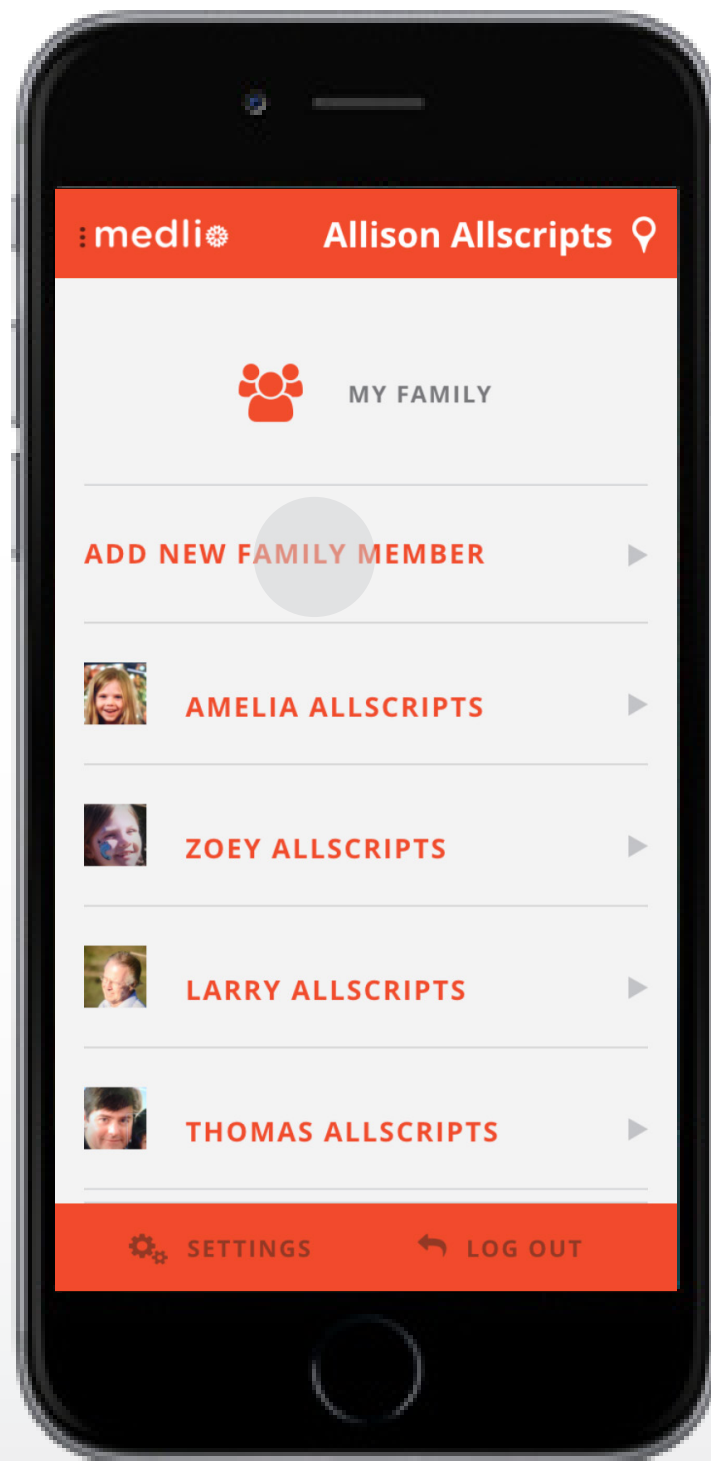


Records

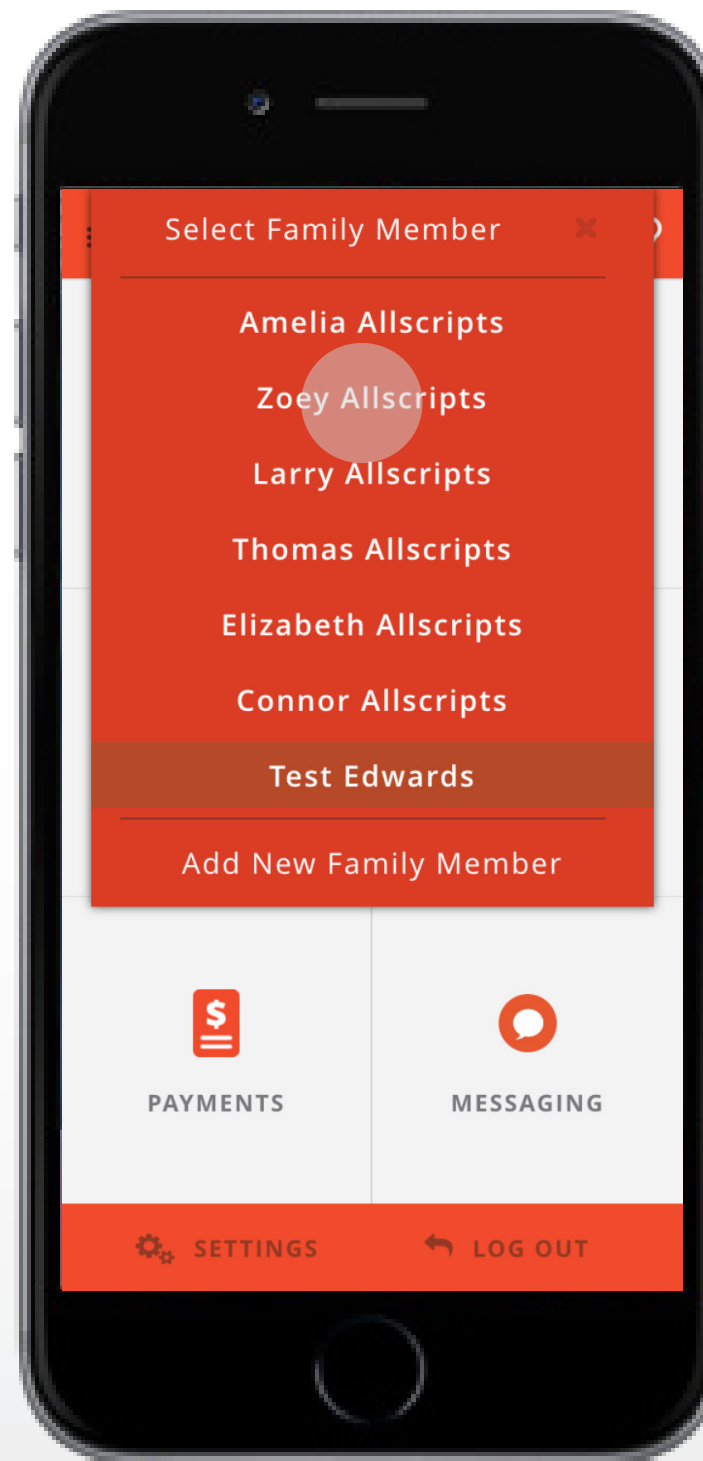


Medications

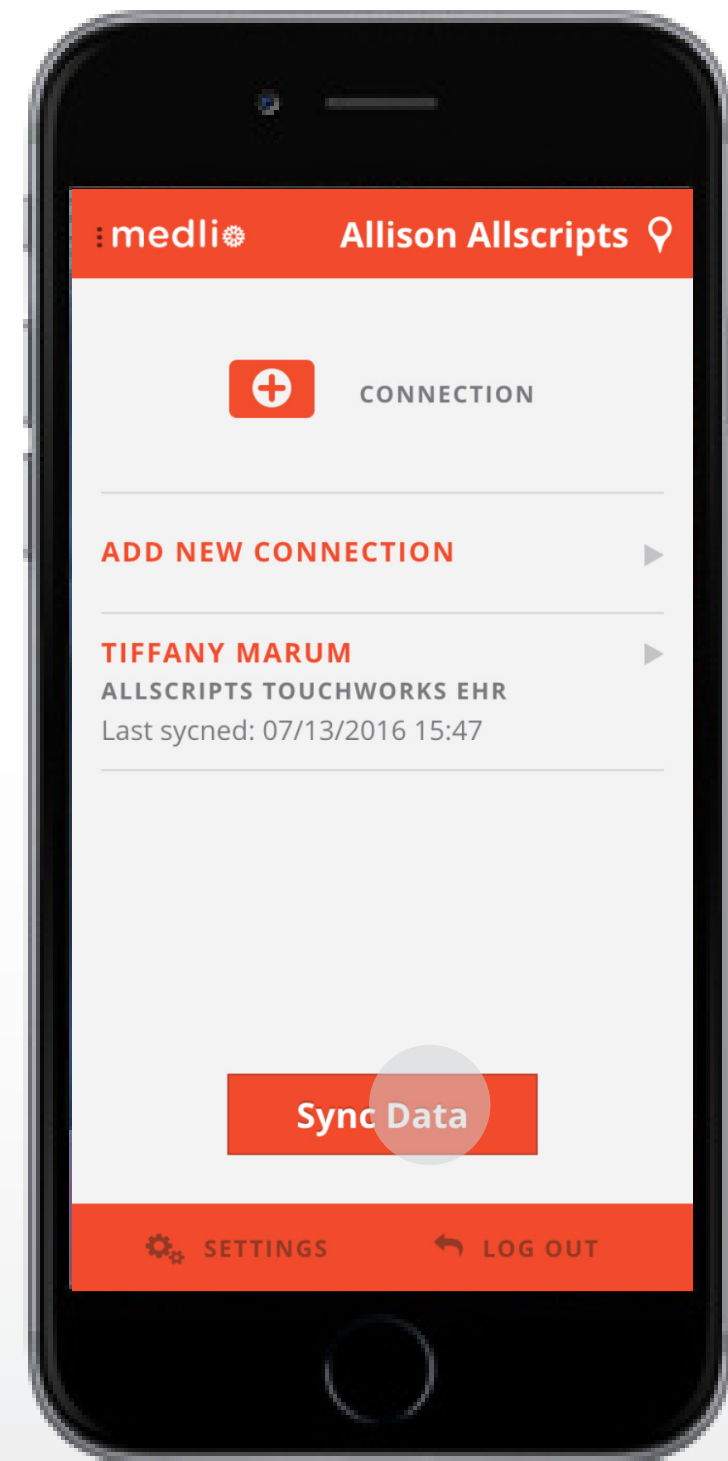
SPECIFIC MU3 COMPLIANCE: PATIENT ENGAGEMENT



Add family members
or care team

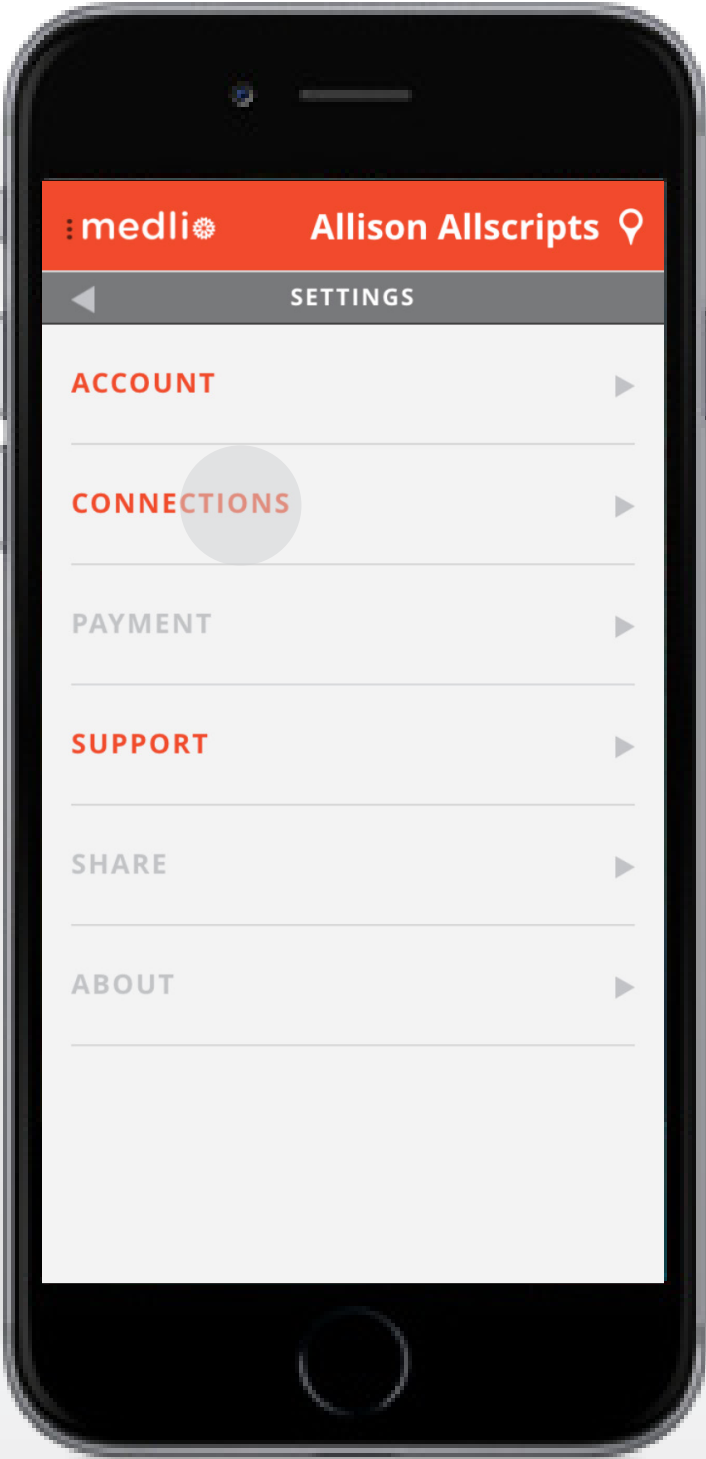


Tap to switch profiles

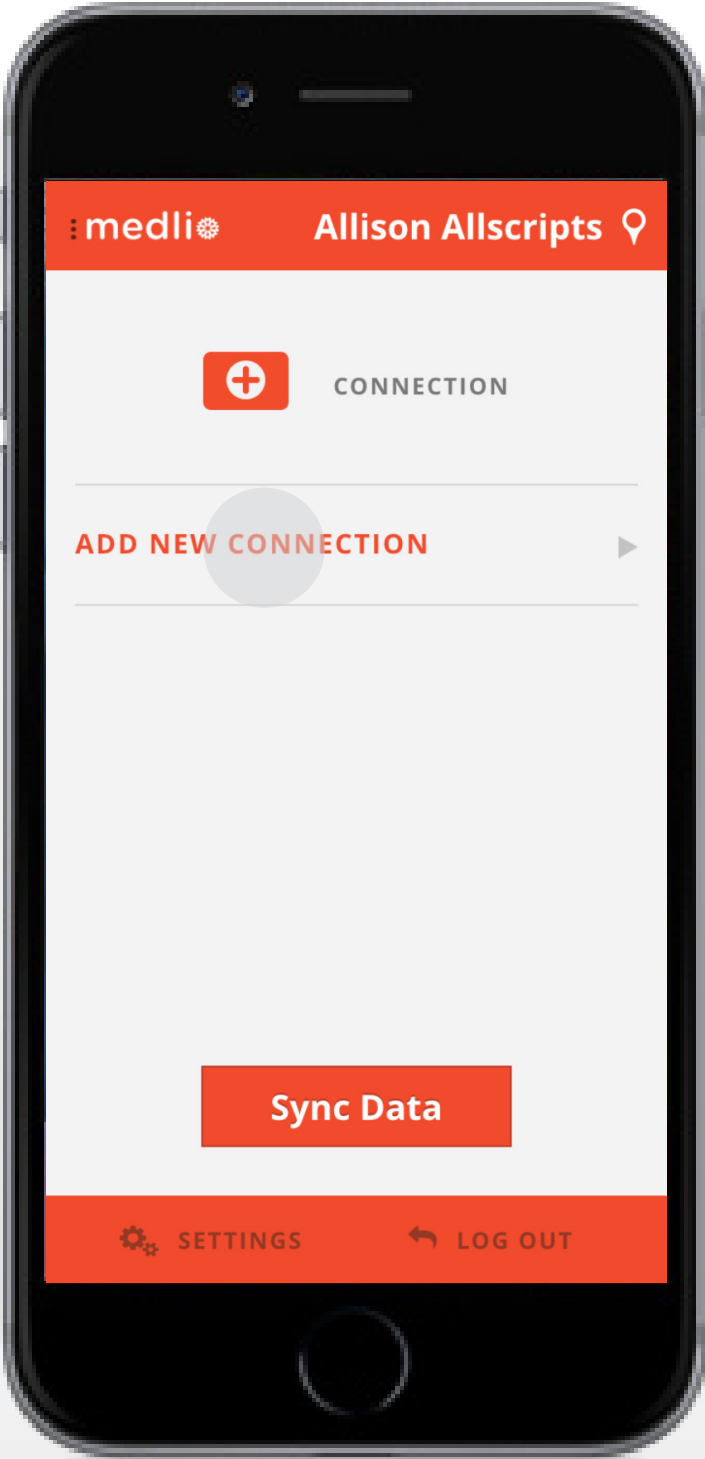


Request data connections/
Sync data

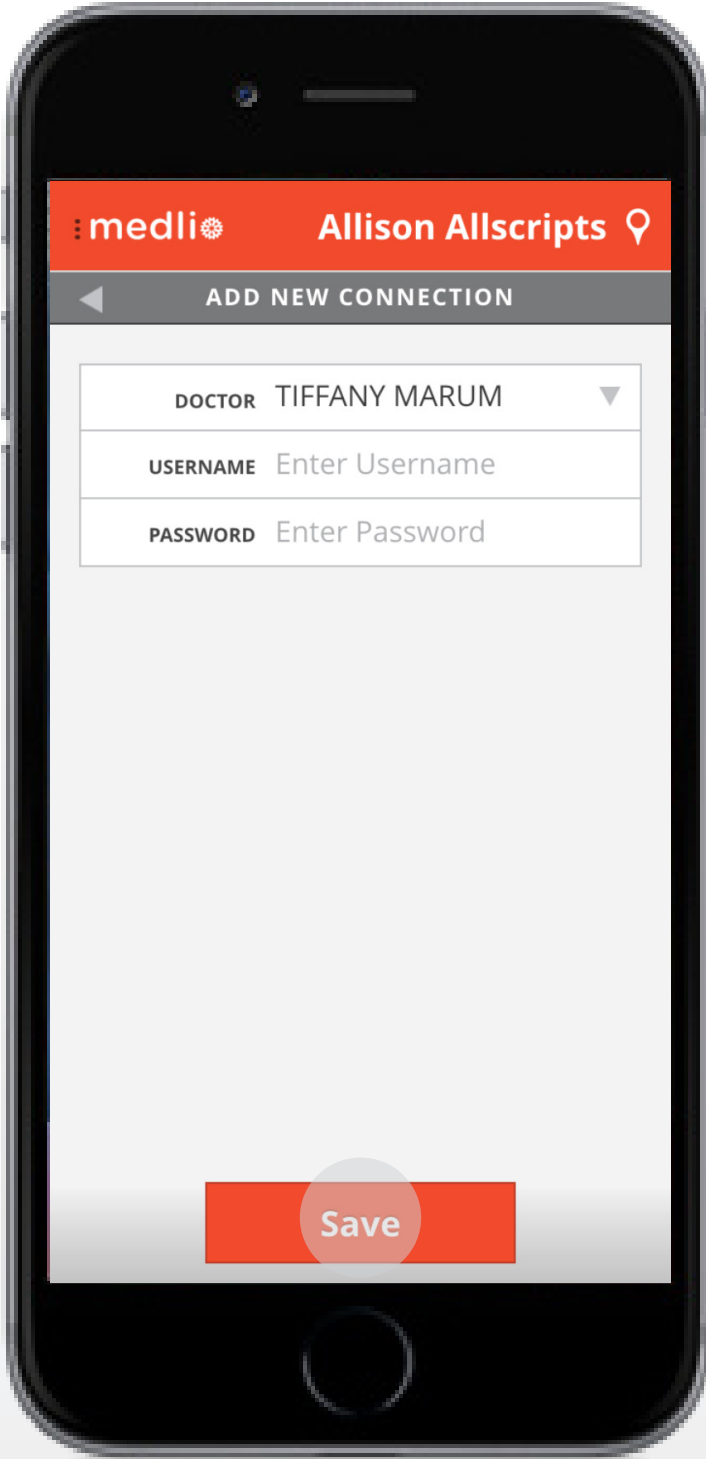
SPECIFIC MU3 COMPLIANCE: PATIENT SELECTION



Settings/Connections

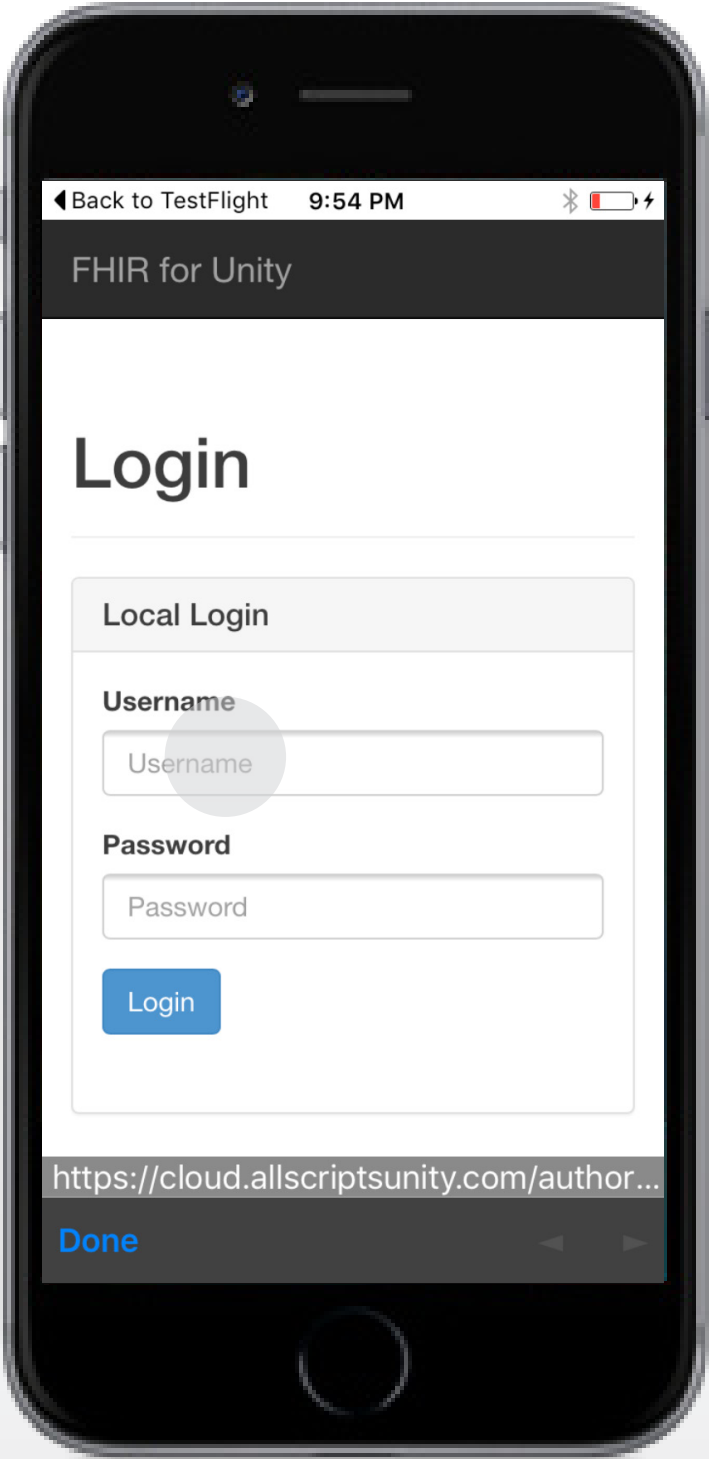


Add new connection

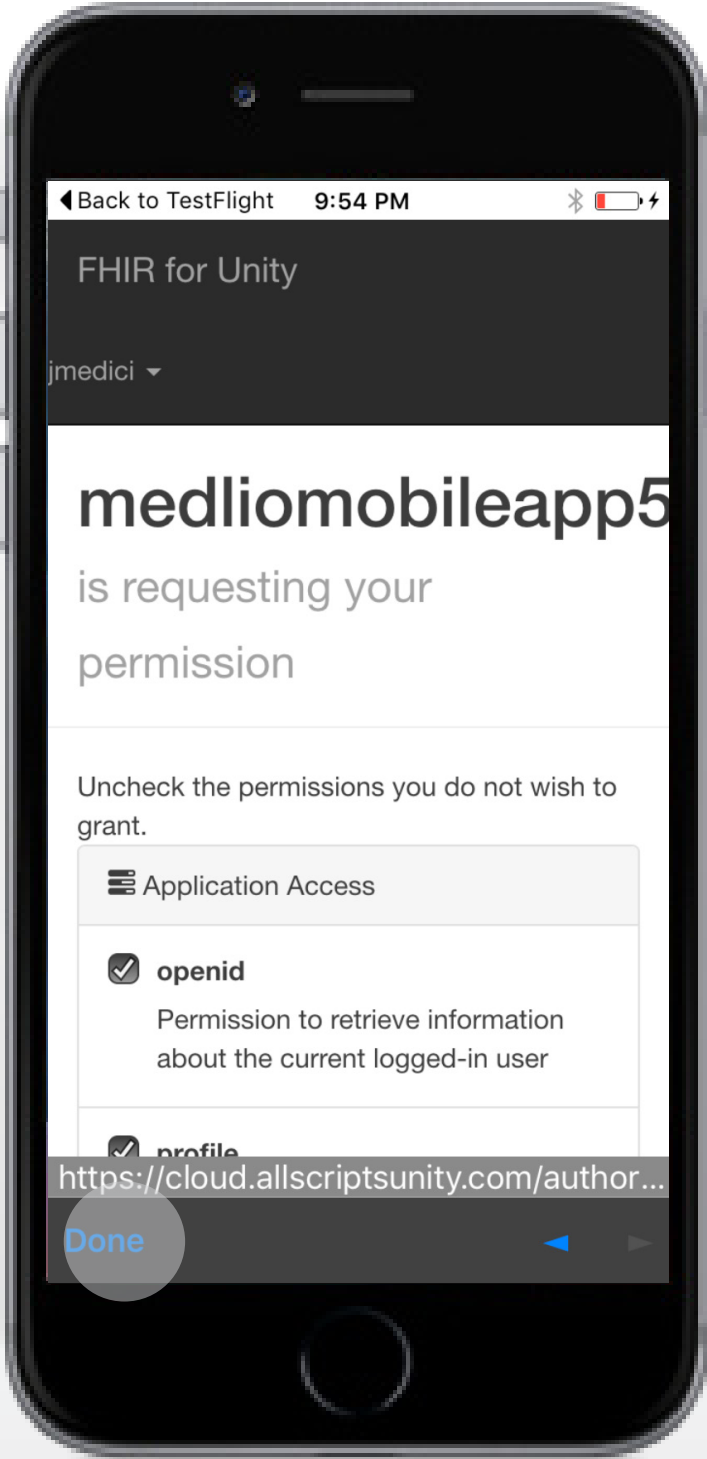


Select provider,
enter credentials

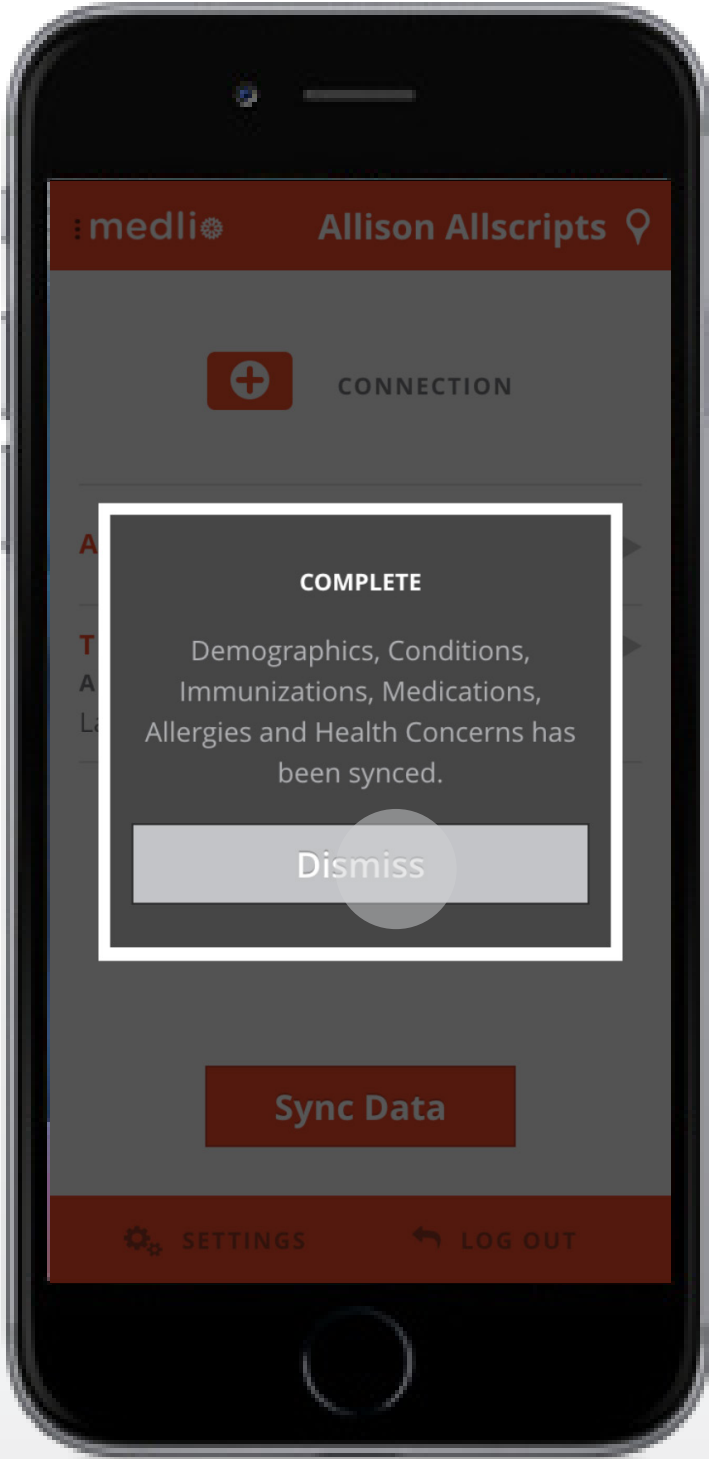
SPECIFIC MU3 COMPLIANCE: PATIENT SELECTION



Enter Allscripts FHIR
credentials

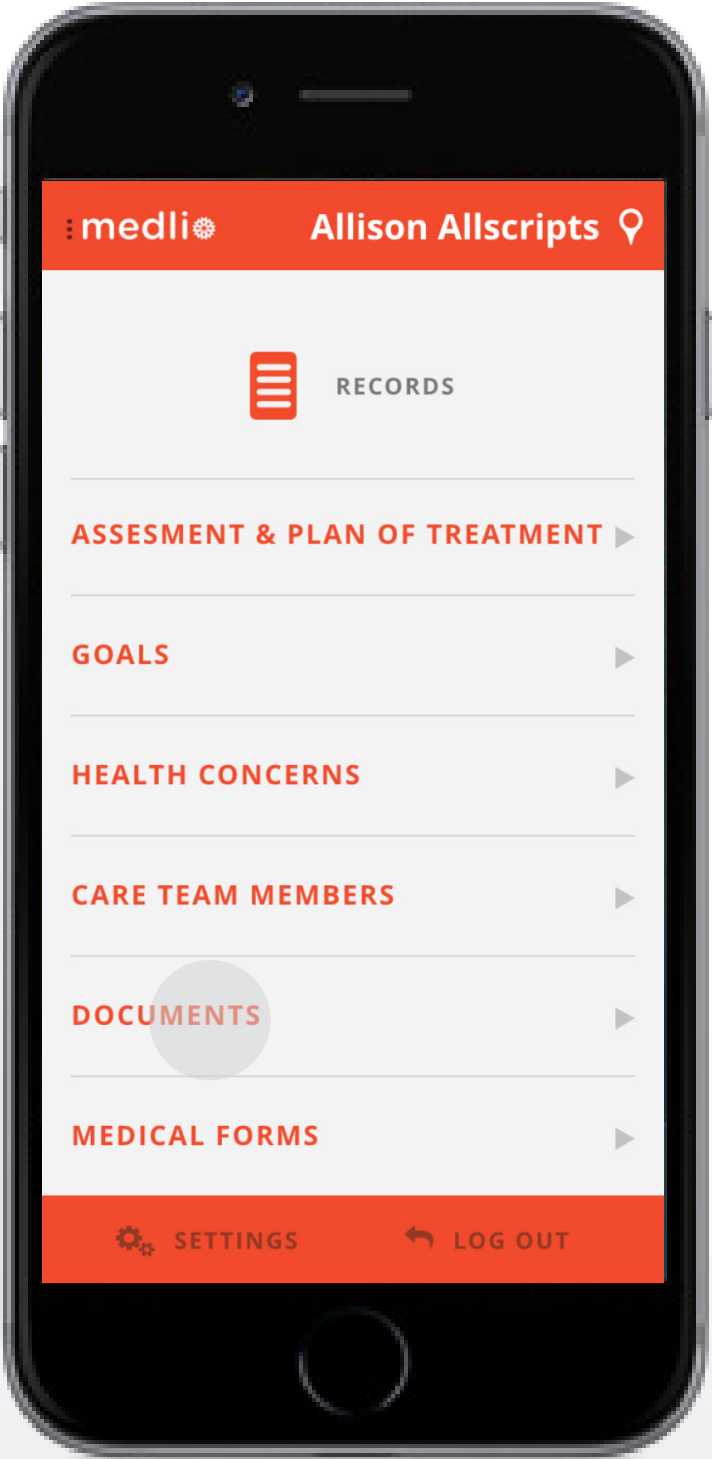


Approve data types

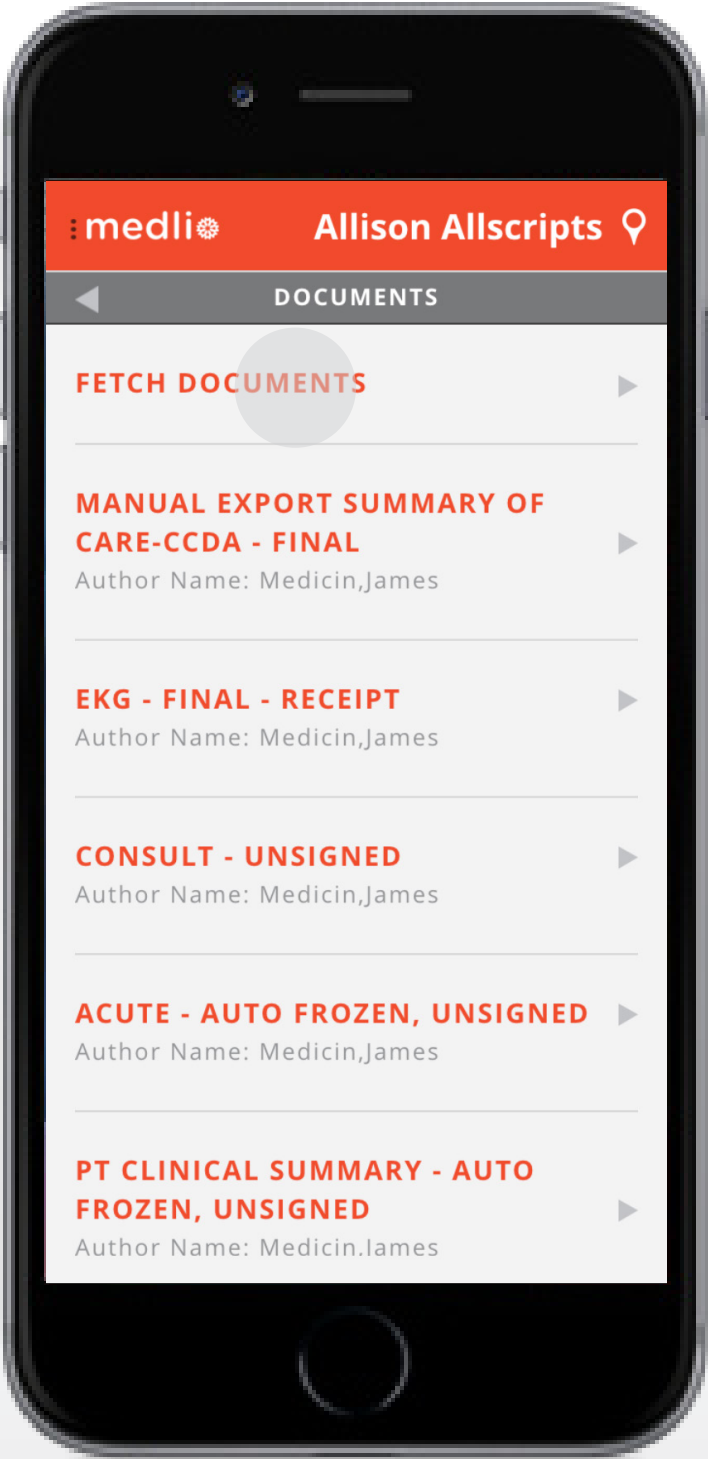


Sincronization complete

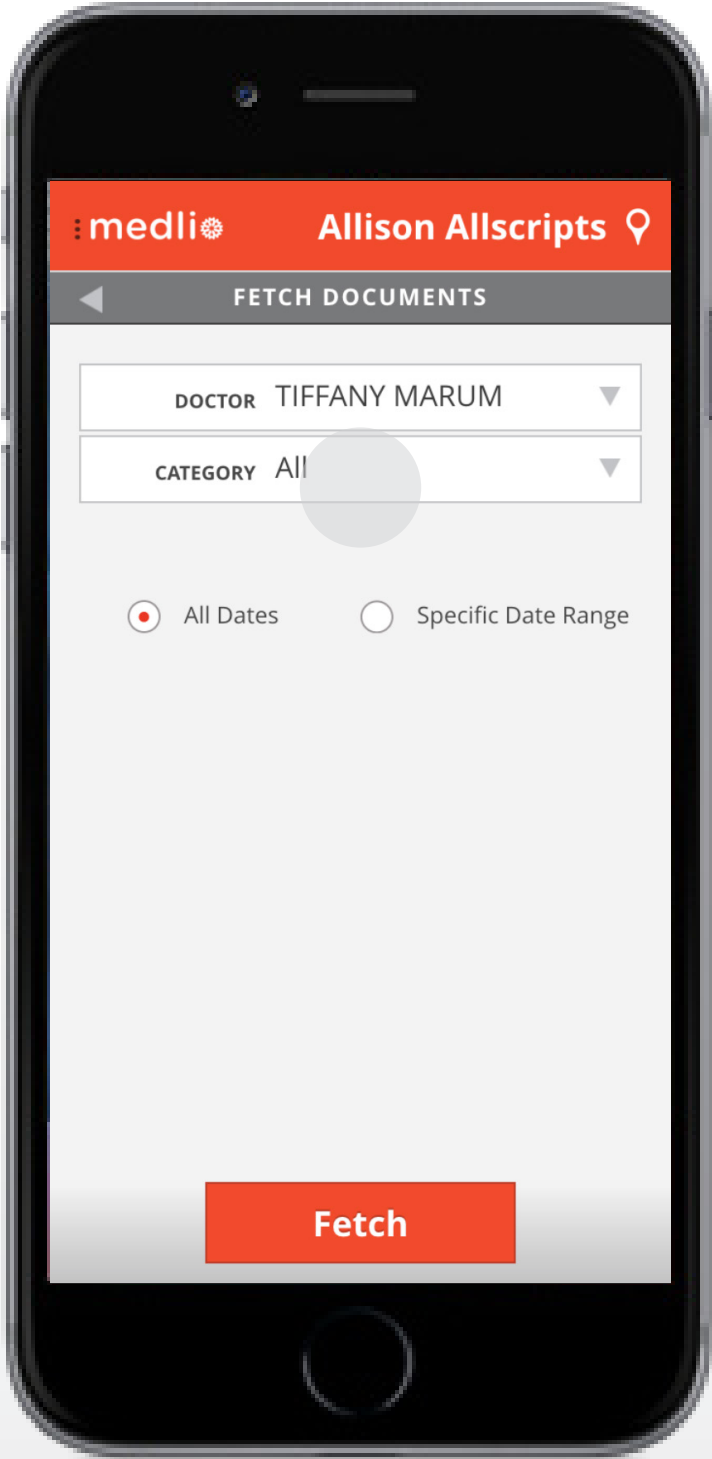
SPECIFIC MU3 COMPLIANCE: DATA CATEGORY REQUESTS



Select documents



Fetch documents



Select category type

SPECIFIC MU3 COMPLIANCE: DATA CATEGORY REQUESTS

medli Allison Allscripts

FETCH DOCUMENTS

DOCTOR TIFFANY MARUM

CATEGORY All

All
Format: RTF

ProgNote
Format: RTF

OffVisit
Format: RTF

Result
Format: RTF

Fetch

Pick category

medli Allison Allscripts

FETCH DOCUMENTS

DOCTOR TIFFANY MARUM

CATEGORY OffVisit

☐ All Dates ☒ Specific Date Range

START DATE 07/13/2016

END DATE 07/13/2016

Fetch

Select date

medli Allison Allscripts

FETCH DOCUMENTS

DOCTOR TIFFANY MARUM

CATEGORY OffVisit

☐ All Dates ☒ Specific Date Range

START DATE 01/01/2016

END DATE 07/13/2016

Fetch

Select date range

SPECIFIC MU3 COMPLIANCE: ALL DATA REQUEST

The screenshot shows the Medli app interface for Allison Allscripts. At the top, there's a red header with the Medli logo and the user's name. Below it is a grey bar with a back arrow and the text 'FETCH DOCUMENTS'. The main area has two dropdown menus: 'DOCTOR' set to 'TIFFANY MARUM' and 'CATEGORY' set to 'All'. Below these are two radio buttons: 'All Dates' (selected) and 'Specific Date Range'. At the bottom is a red 'Fetch' button.

Select all documents,
all dates






The screenshot shows the Medli app interface for Allison Allscripts. At the top, there's a red header with the Medli logo and the user's name. Below it is a grey bar with a back arrow and the text 'FETCH DOCUMENTS'. The main area has two dropdown menus: 'DOCTOR' set to 'TIFFANY MARUM' and 'CATEGORY' set to 'All'. Below these are two radio buttons: 'All Dates' and 'Specific Date Range' (selected). Under the 'Specific Date Range' section, there are two input fields: 'START DATE' set to '07/13/2016' and 'END DATE' set to '07/13/2016'. At the bottom is a red 'Fetch' button.

Select all documents,
one day

The screenshot shows the Medli app interface for Allison Allscripts. At the top, there's a red header with the Medli logo and the user's name. Below it is a grey bar with a back arrow and the text 'FETCH DOCUMENTS'. The main area has two dropdown menus: 'DOCTOR' set to 'TIFFANY MARUM' and 'CATEGORY' set to 'All'. Below these are two radio buttons: 'All Dates' and 'Specific Date Range' (selected). Under the 'Specific Date Range' section, there are two input fields: 'START DATE' set to '01/01/2016' and 'END DATE' set to '07/13/2016'. At the bottom is a red 'Fetch' button.

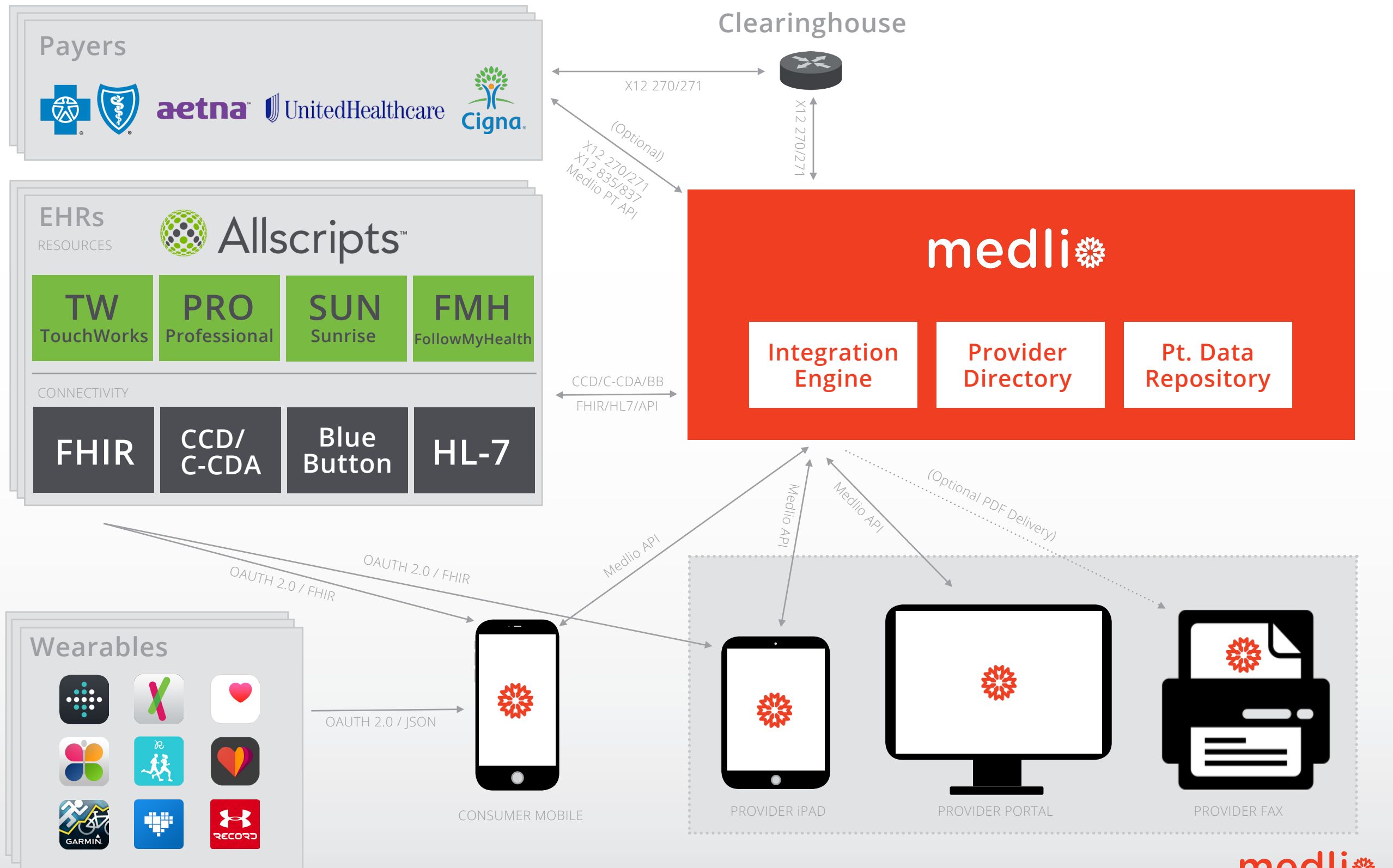
Select all documents,
date range

DEVELOPMENT TIMEFRAME

PROGRESS TOWARD RELEASE			ANTICIPATED COMPLETION
	CONSUMER MOBILE	90%	August 15, 2016
	DYNAMIC DIRECTORY	85%	October 1, 2016
	INTEGRATION ENGINE	75%	September 1, 2016
	PROVIDER PORTAL	50%	November 1, 2016
	PROVIDER IPAD APP	10%	January 1, 2016

DATA AGGREGATION AND DIGITAL CHECKINS CAPABILITY AVAILABLE (GA)
SEPTEMBER 1, 2016

SOLUTION ARCHITECTURE



APIs USED

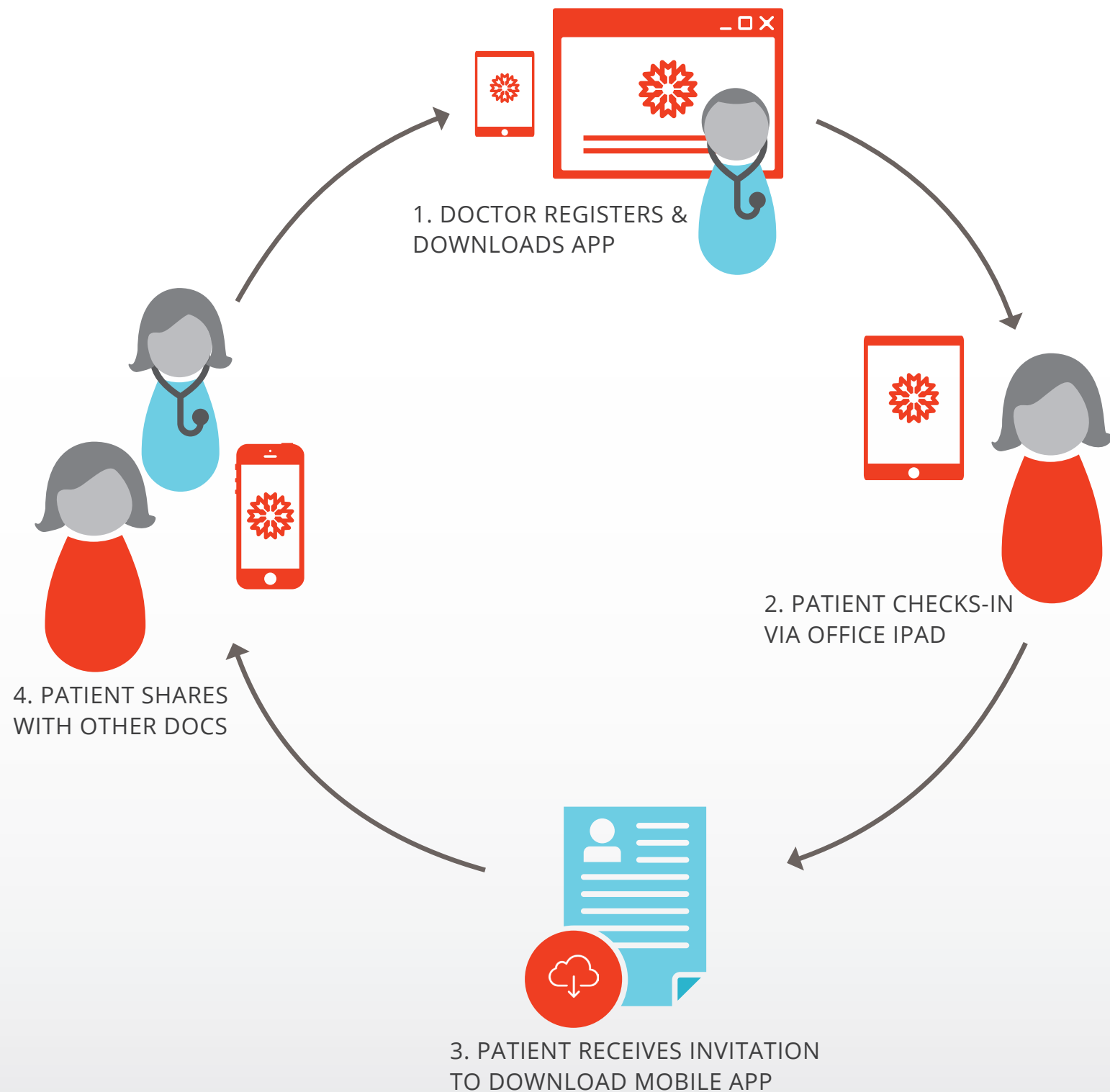
ALLSCRIPTS APIs

CCD/C-CDA (Unity Open API)
OAUTH 2.0
Allscripts FHIR

OTHER APIs

X12 270/271
X12 835/837
CCD/C-CDA/BB
FHIR/HL7/API
OAUTH 2.0 / FHIR
OAUTH 2.0 / JSON
Medlio API
Medlio PT API

GO TO MARKET PLAN



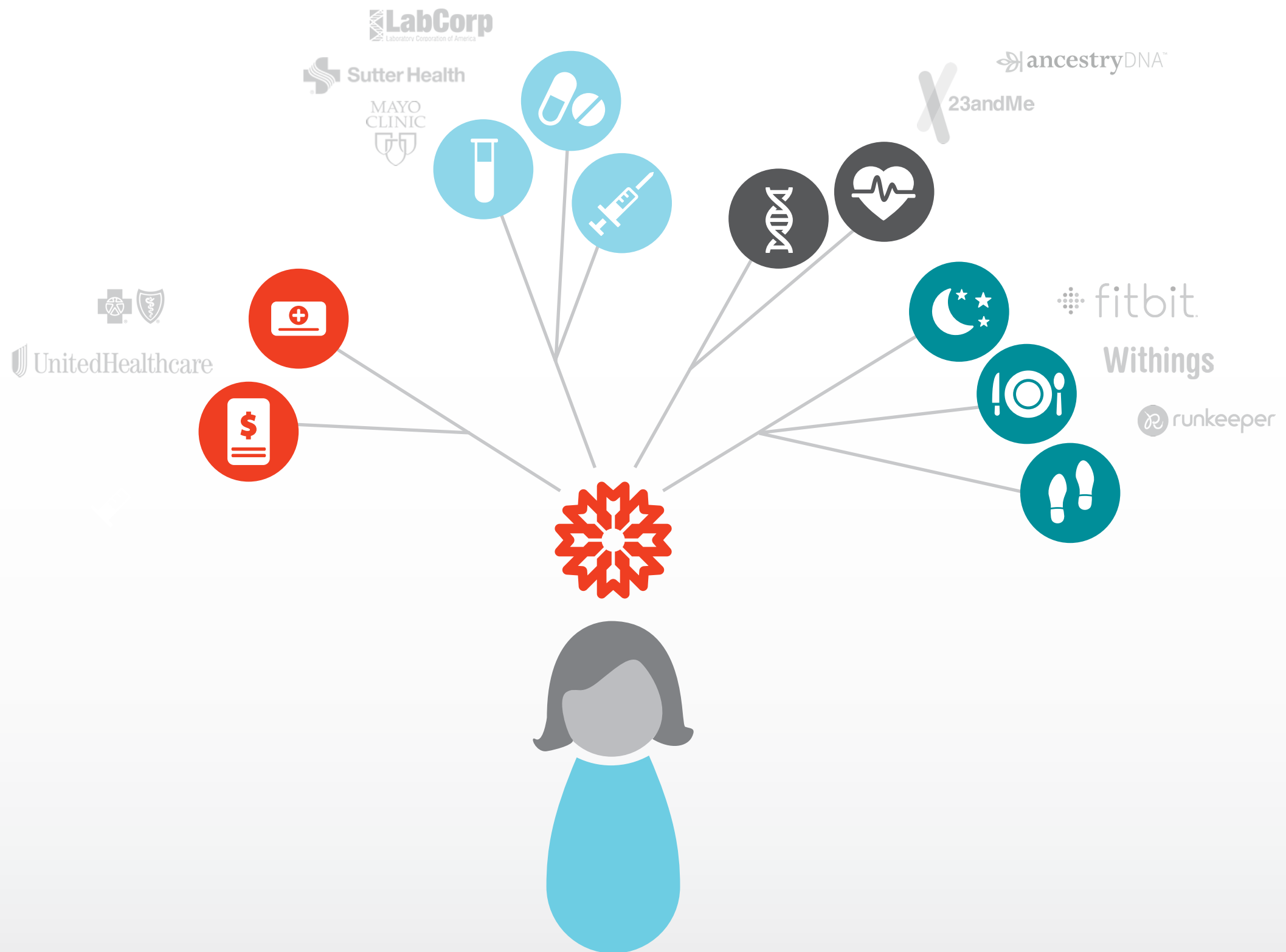
1) We have a freemium model. We offer physicians our free core digital check-in solution, including physician iPad application, that replaces the traditional clipboard.

2) When patients check-in, they complete their medical forms and standard check-in paperwork.

3) Following their appointment, they receive an invitation to download the Medlio smartphone app, including access to the data they've already captured.

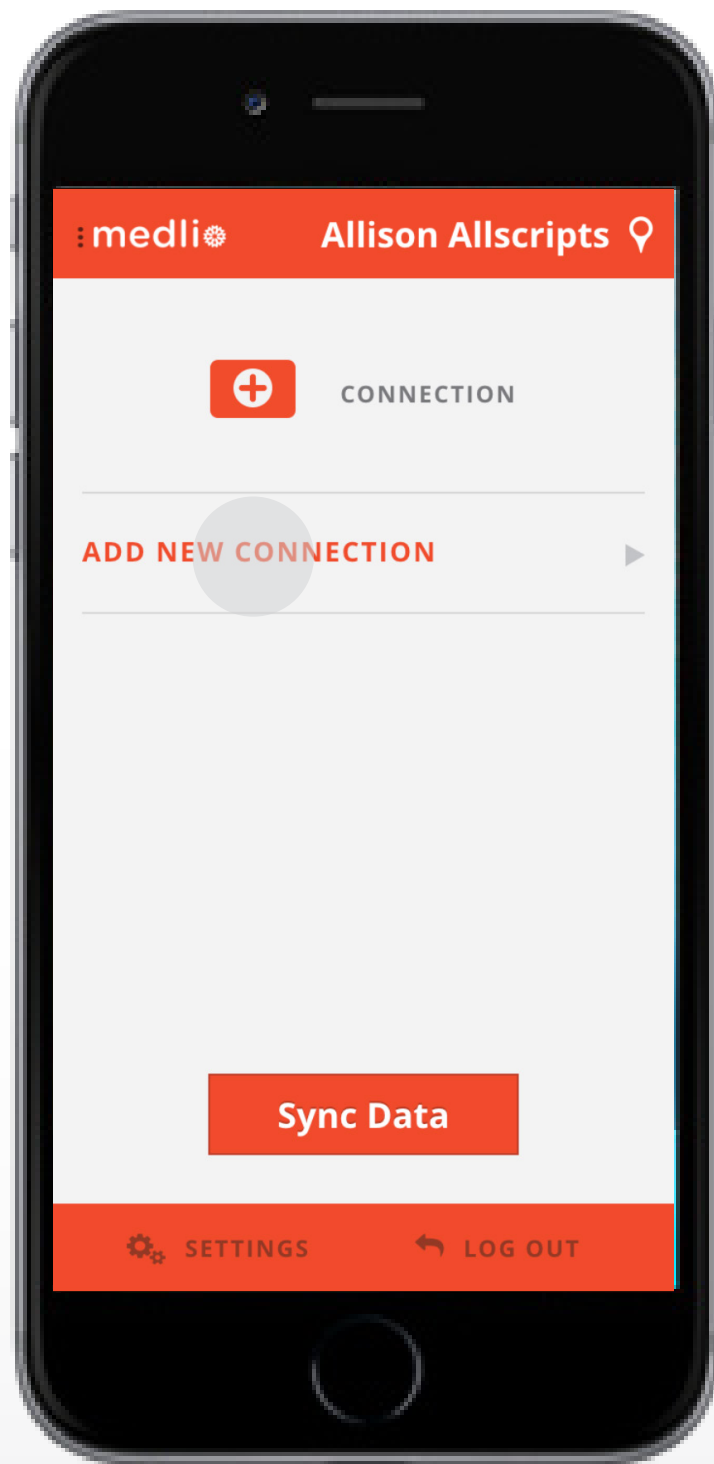
4) The smartphone app, including virtual health insurance card, offers standalone functionality. We hope to create a virtuous adoption cycle where patients share Medlio with their other physicians.

DATA IS POWER

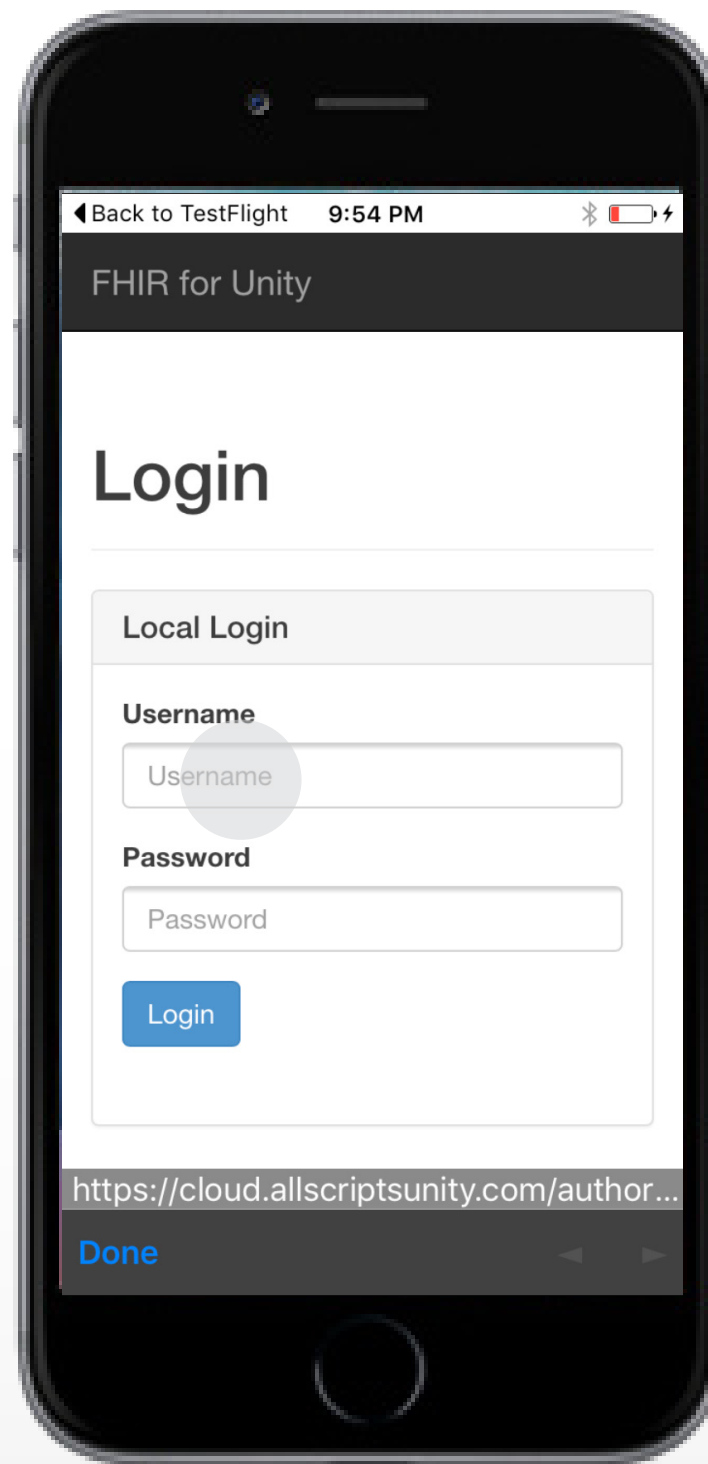


AGGREGATE AND CONTROL YOUR DATA
SO YOU CAN PUT IT TO WORK FOR COMPLETE, HASSLE-FREE DIGITAL CHECK-INS

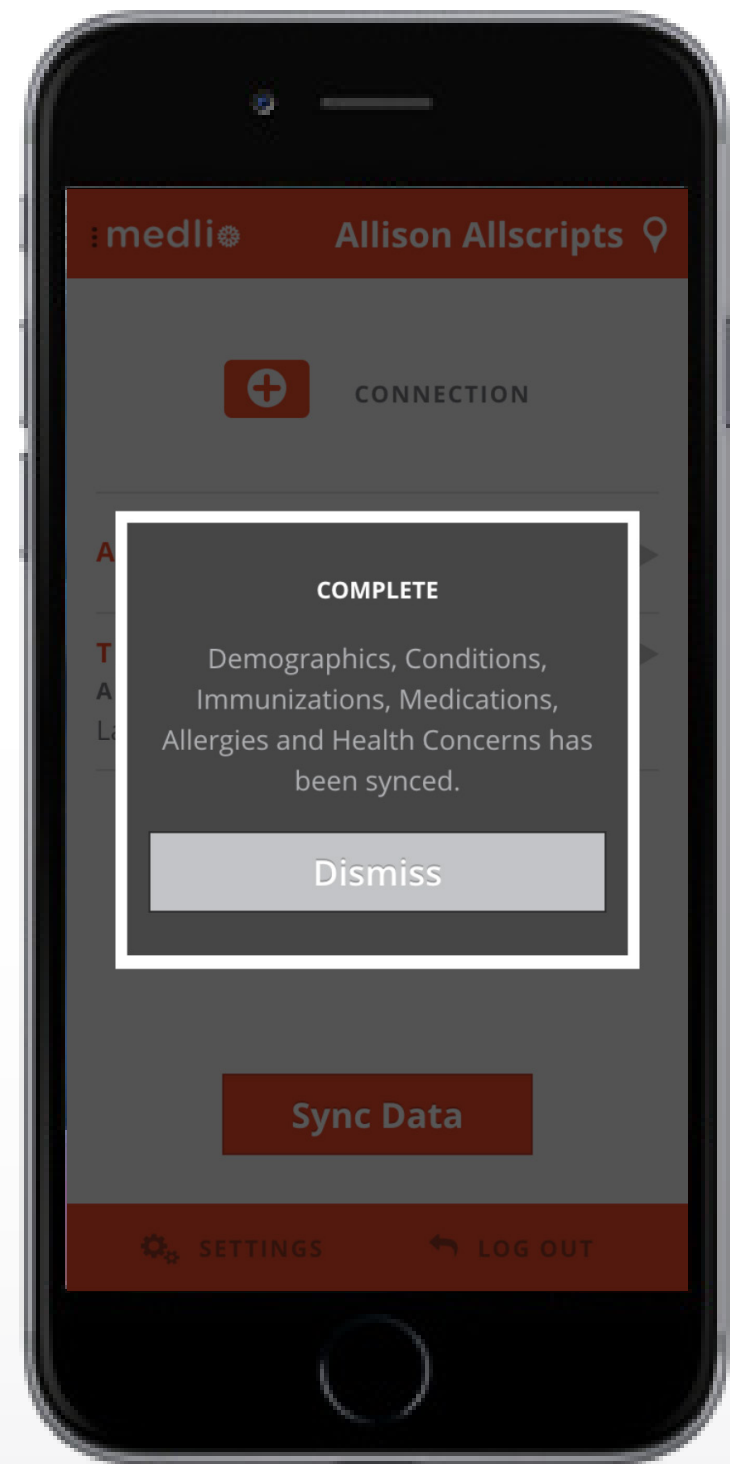
medli



Add new connection



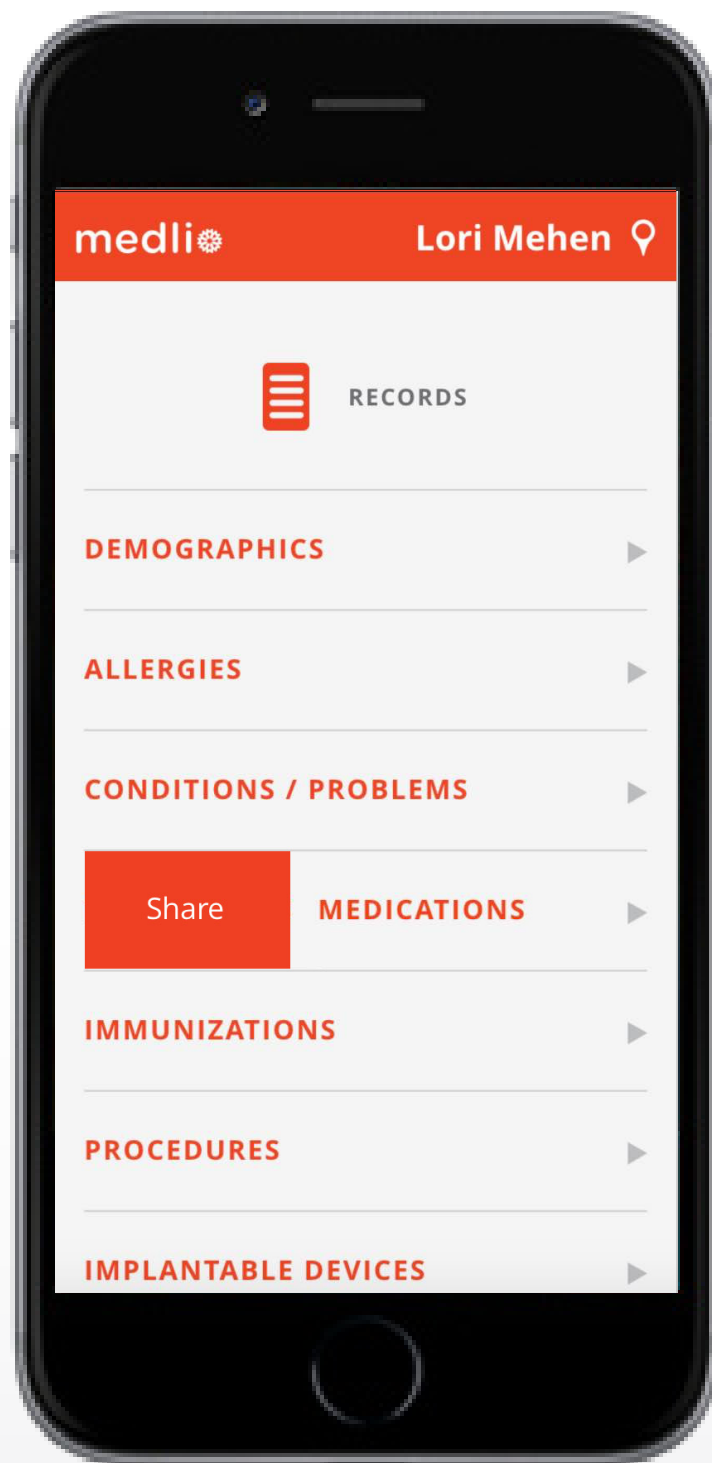
Enter FHIR credentials



Synchronization complete

PROPOSED WORKFLOW & DELIVERABLES

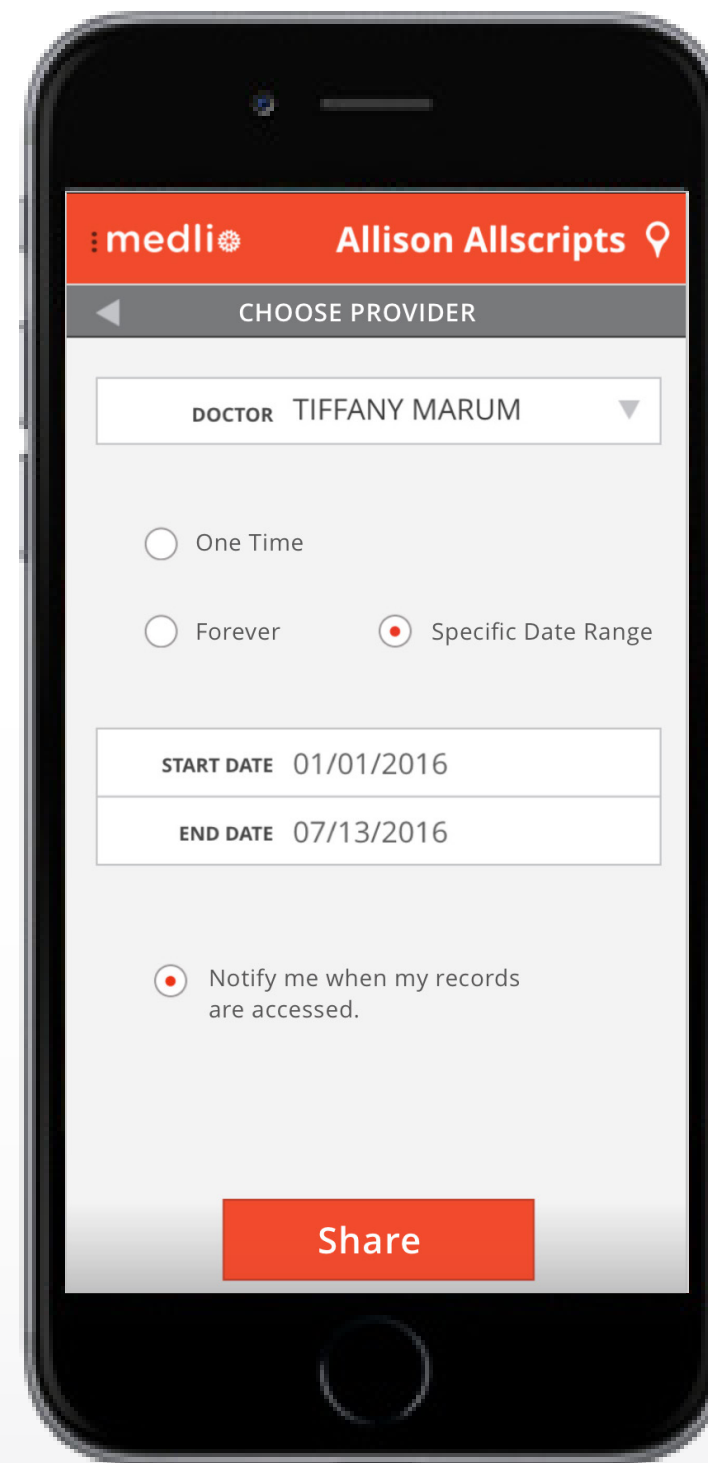
DATA AGGREGATION



Share entire list



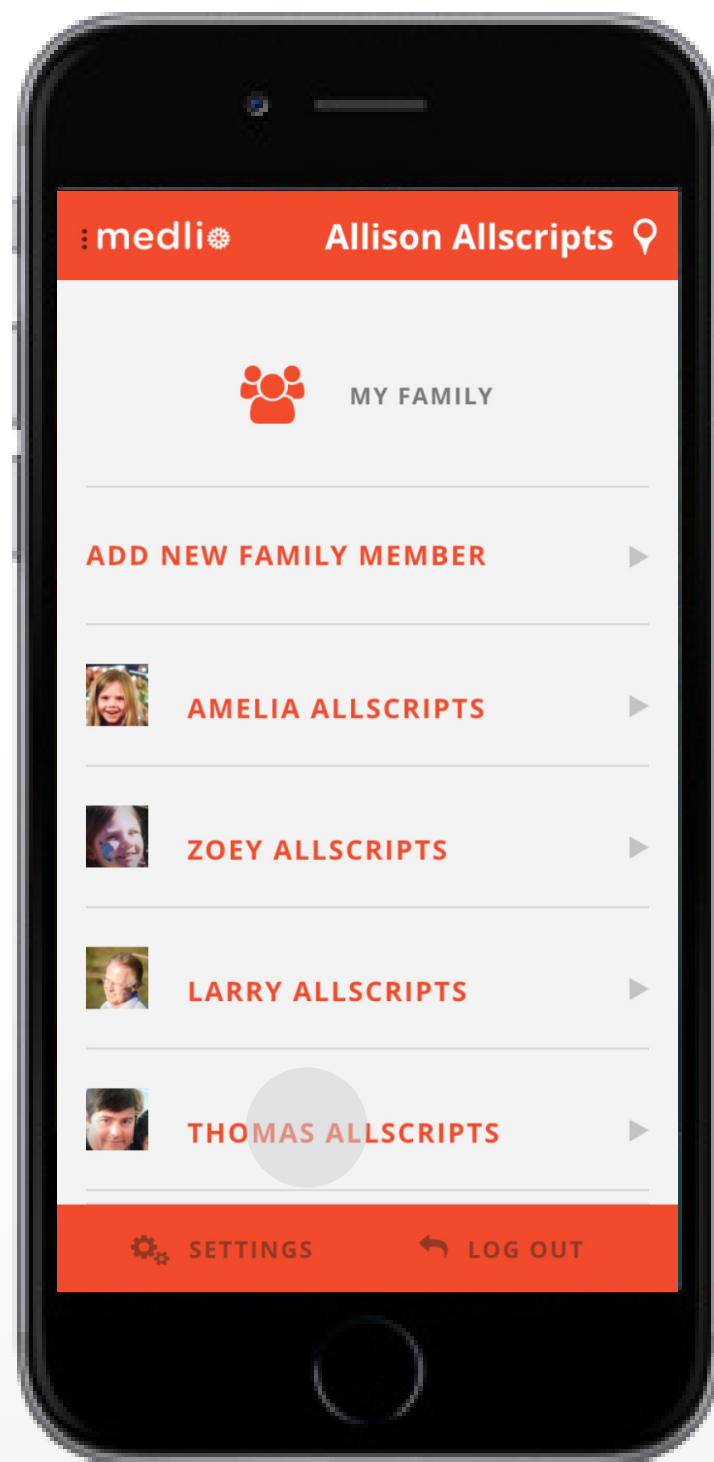
Share specific line item



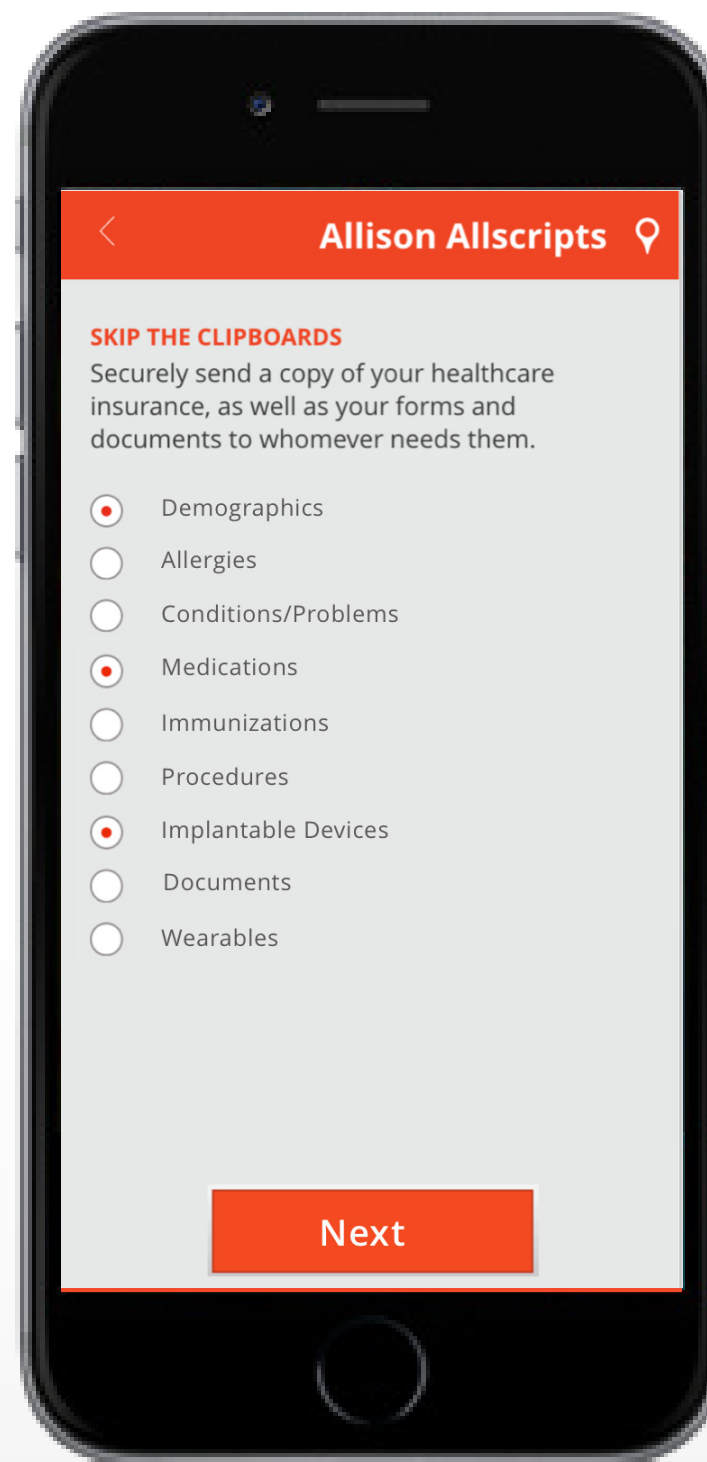
Select provider & access rights

SHARE FROM RECORDS

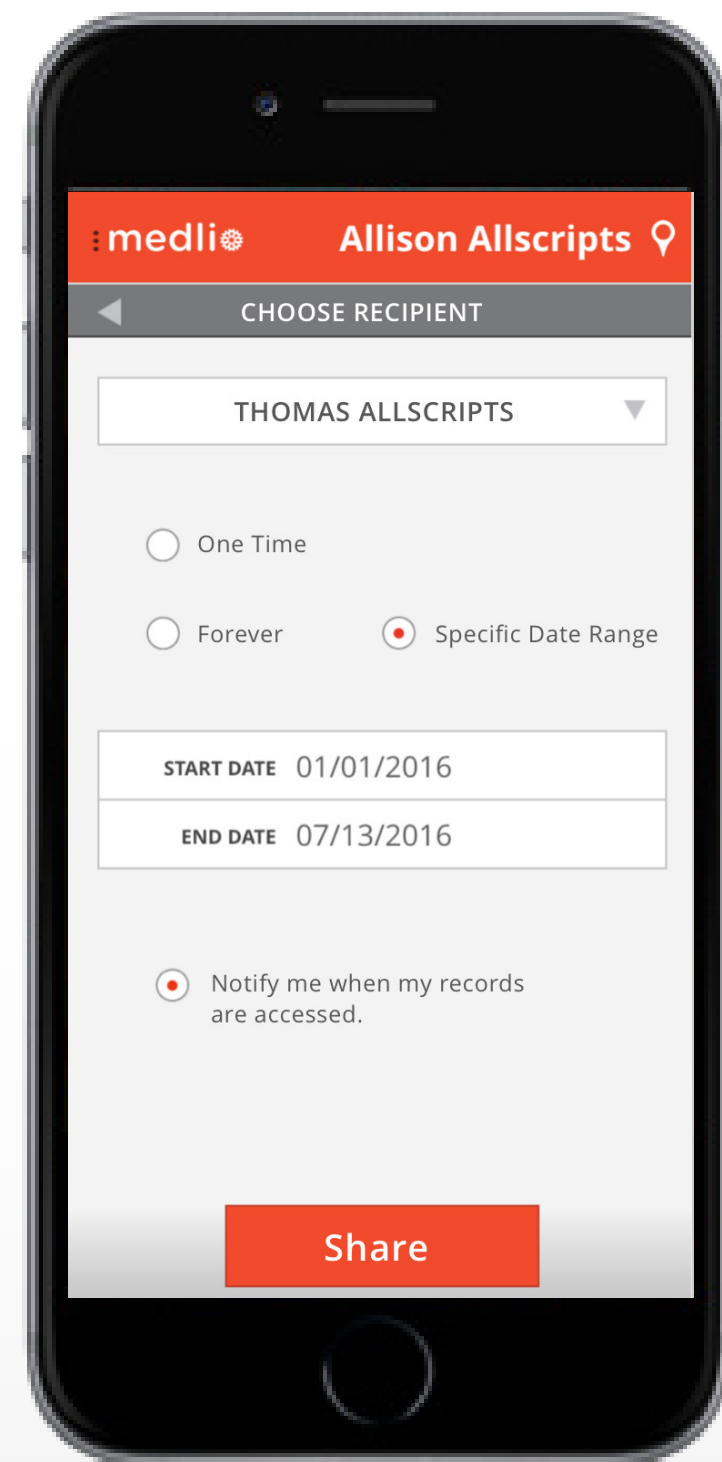
Users can share complete records, individual sections, and even individual data elements



Choose family member



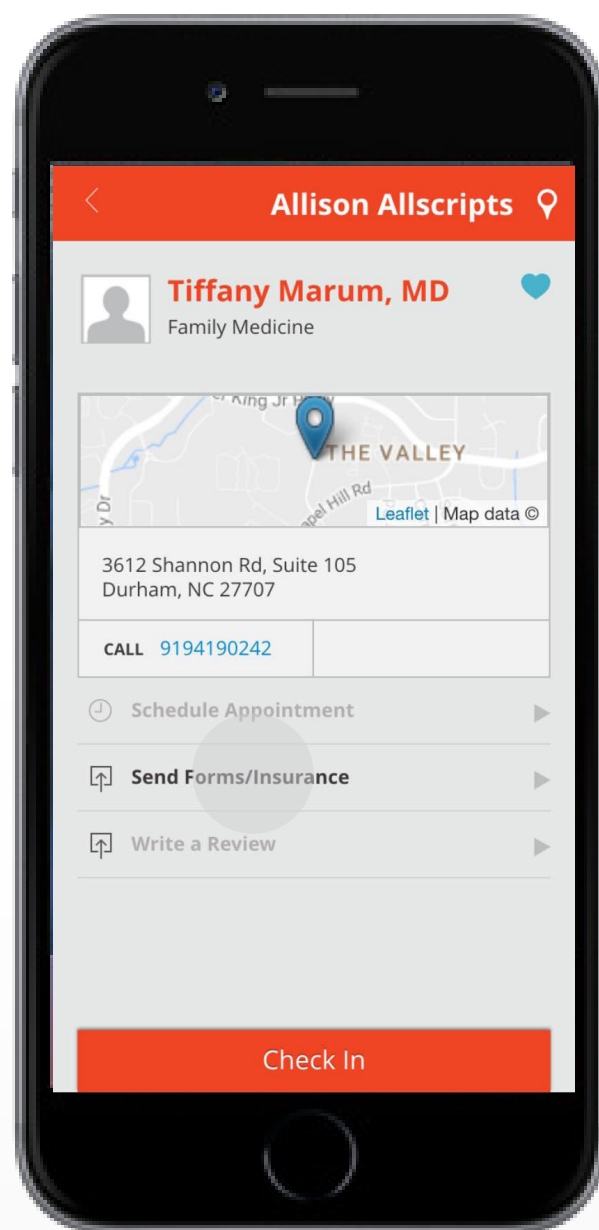
Choose specific data



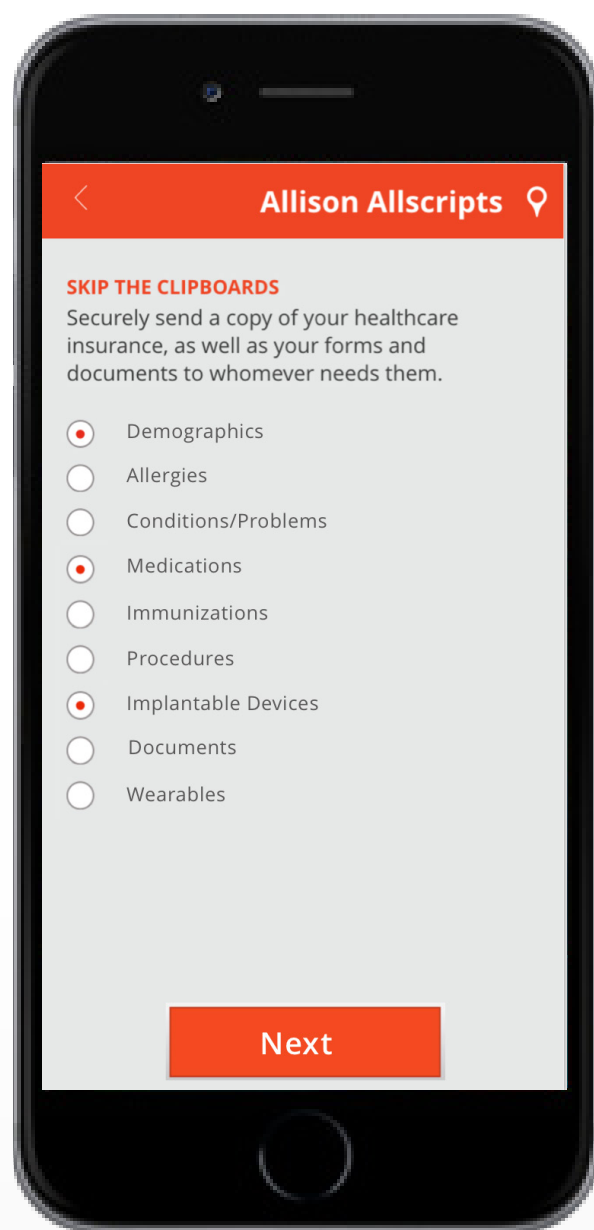
Set access privileges

SHARE DATA WITH FAMILY MEMBERS

Share your medical data with family members and caretakers. You can choose complete records or individual data elements and specify privileges.



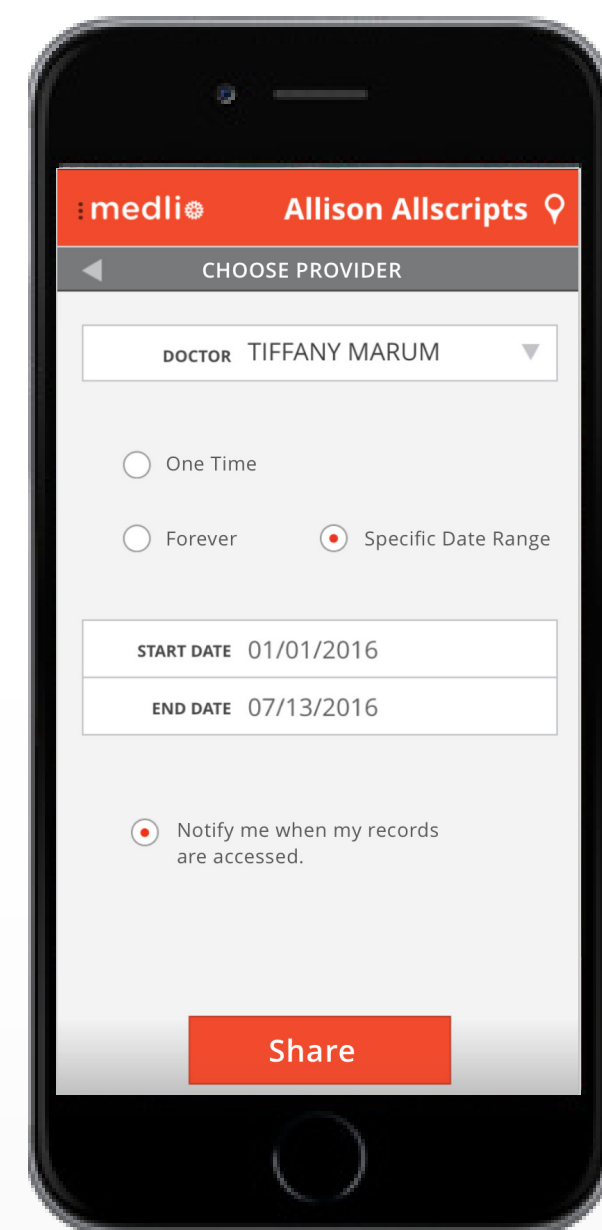
Share medical records



Choose data to share



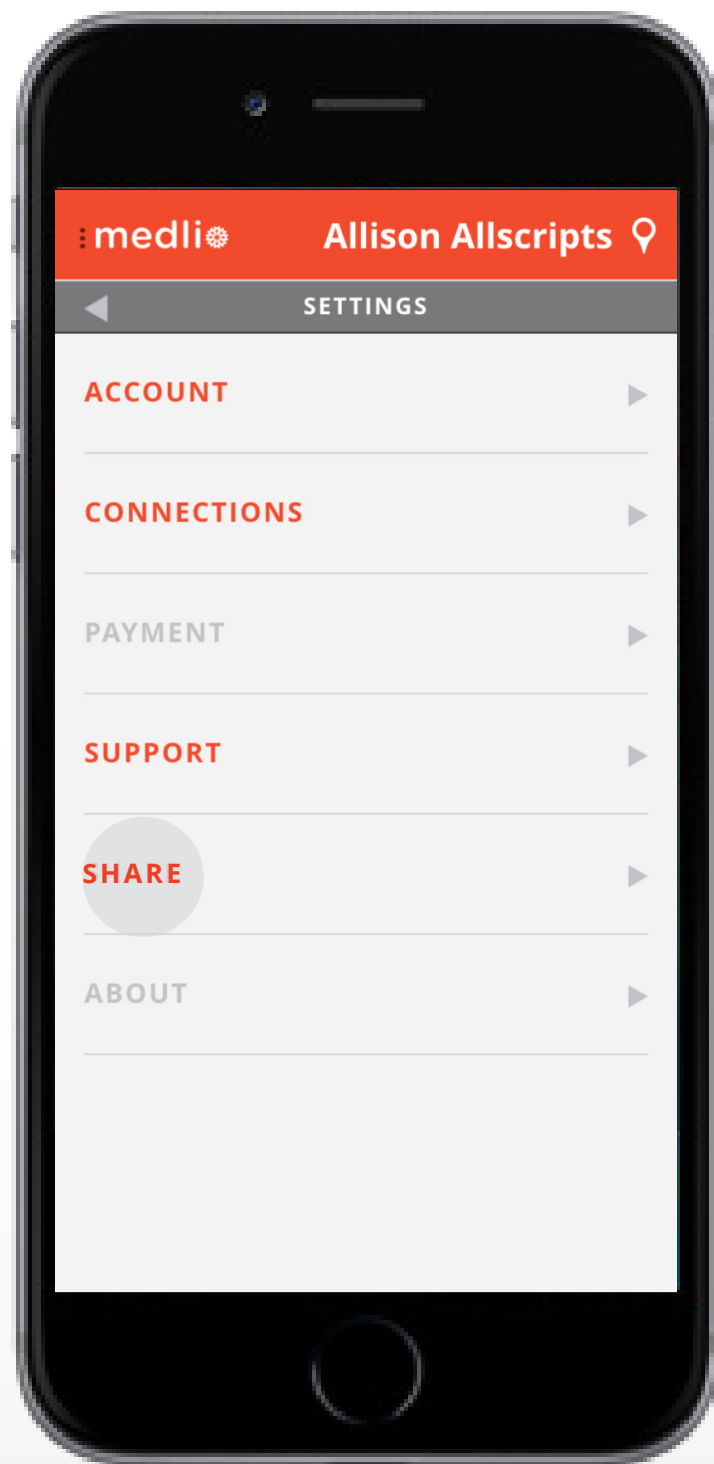
Granular selection available



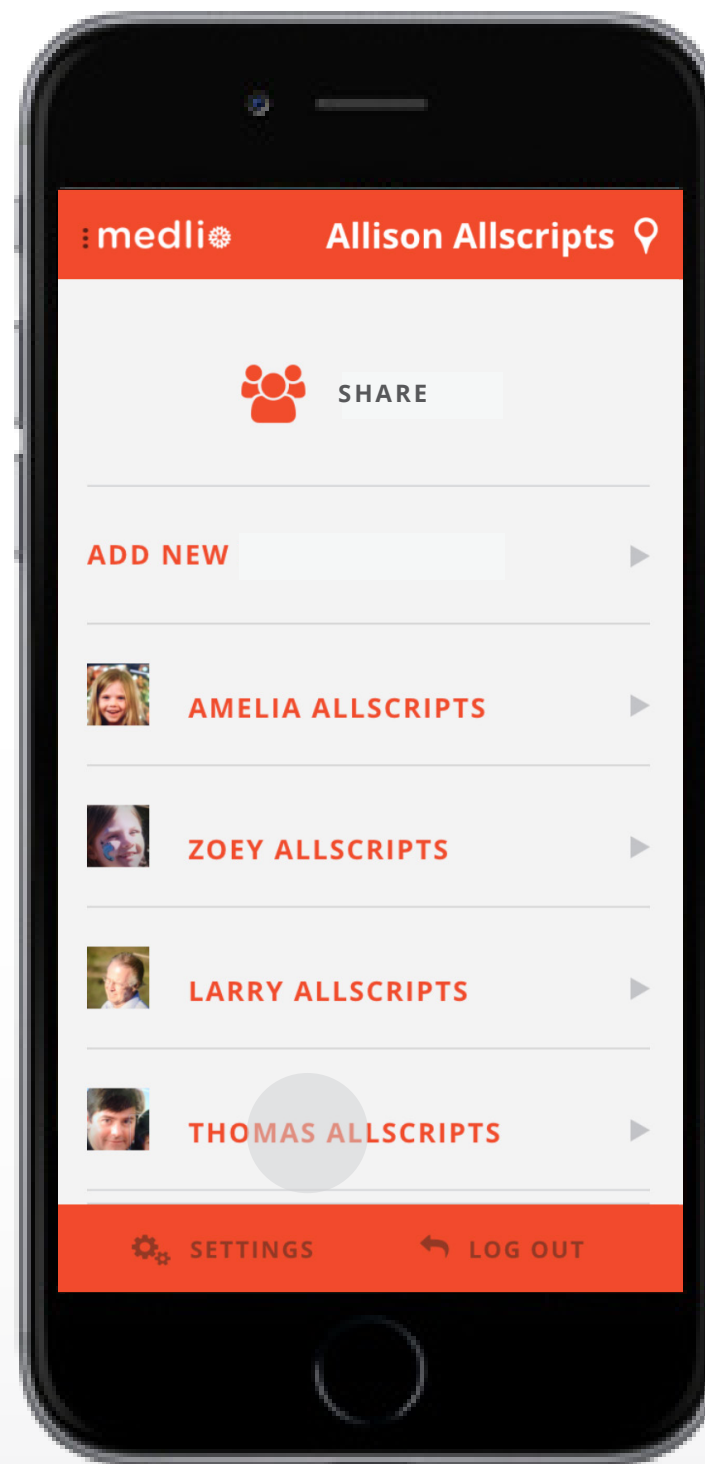
Set access privileges

SHARE FROM PROVIDER PROFILE

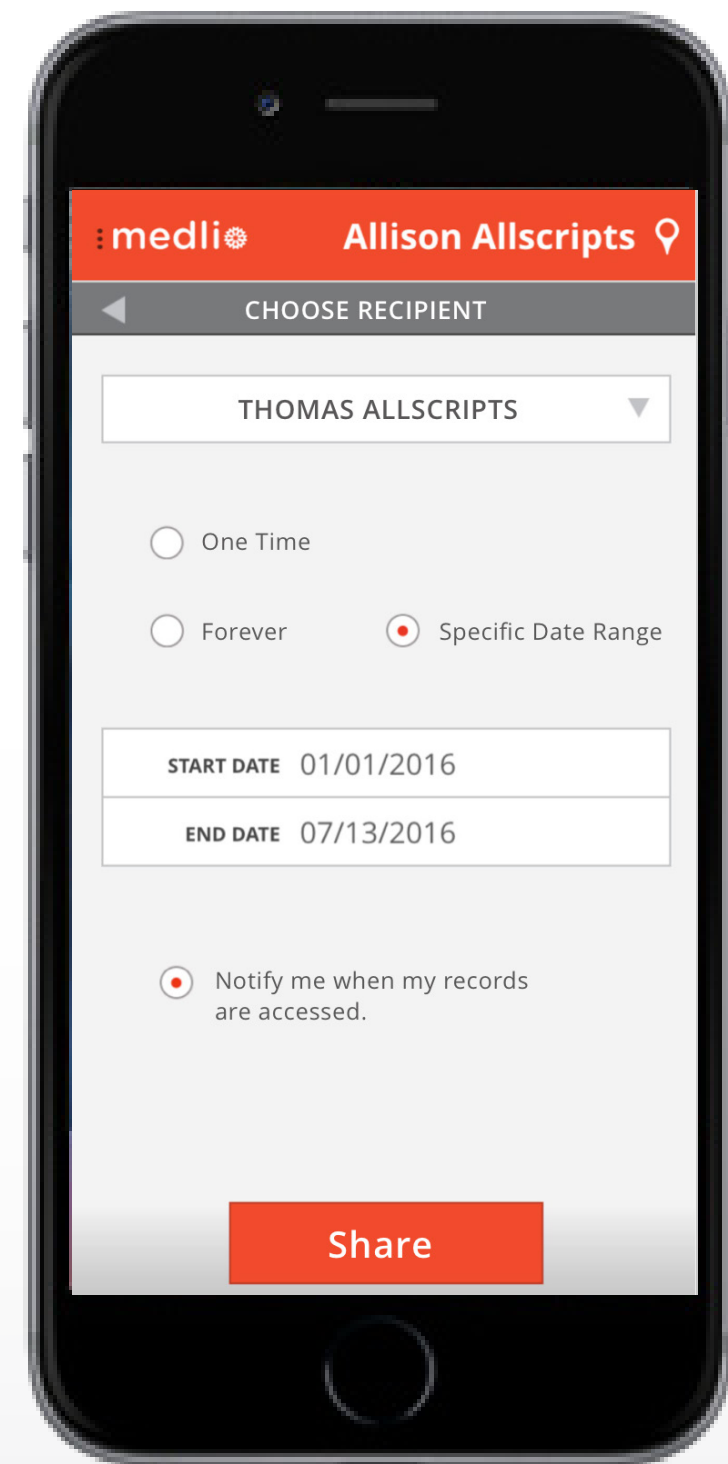
Patients can share data with their providers directly from the provider profile. Patients find and favorite all their providers, select all or individual elements of the data and set access privileges.



Settings/connections



Add/select connection



Set access privileges

SHARE SETTINGS

From your settings, you can see and edit privileges to all the individual people you share data with.

COMPETITIVE ADVANTAGE OF MEDLIO'S APPROACH

On one hand, we would like to see general adoption of the HEART WG standards and, therefore, do not consider support of the overall APIs as generally competitive in nature. On the other hand, we believe that our solution has greater likelihood of consumer adoption, primarily because we focus on usability of data from the consumer perspective.

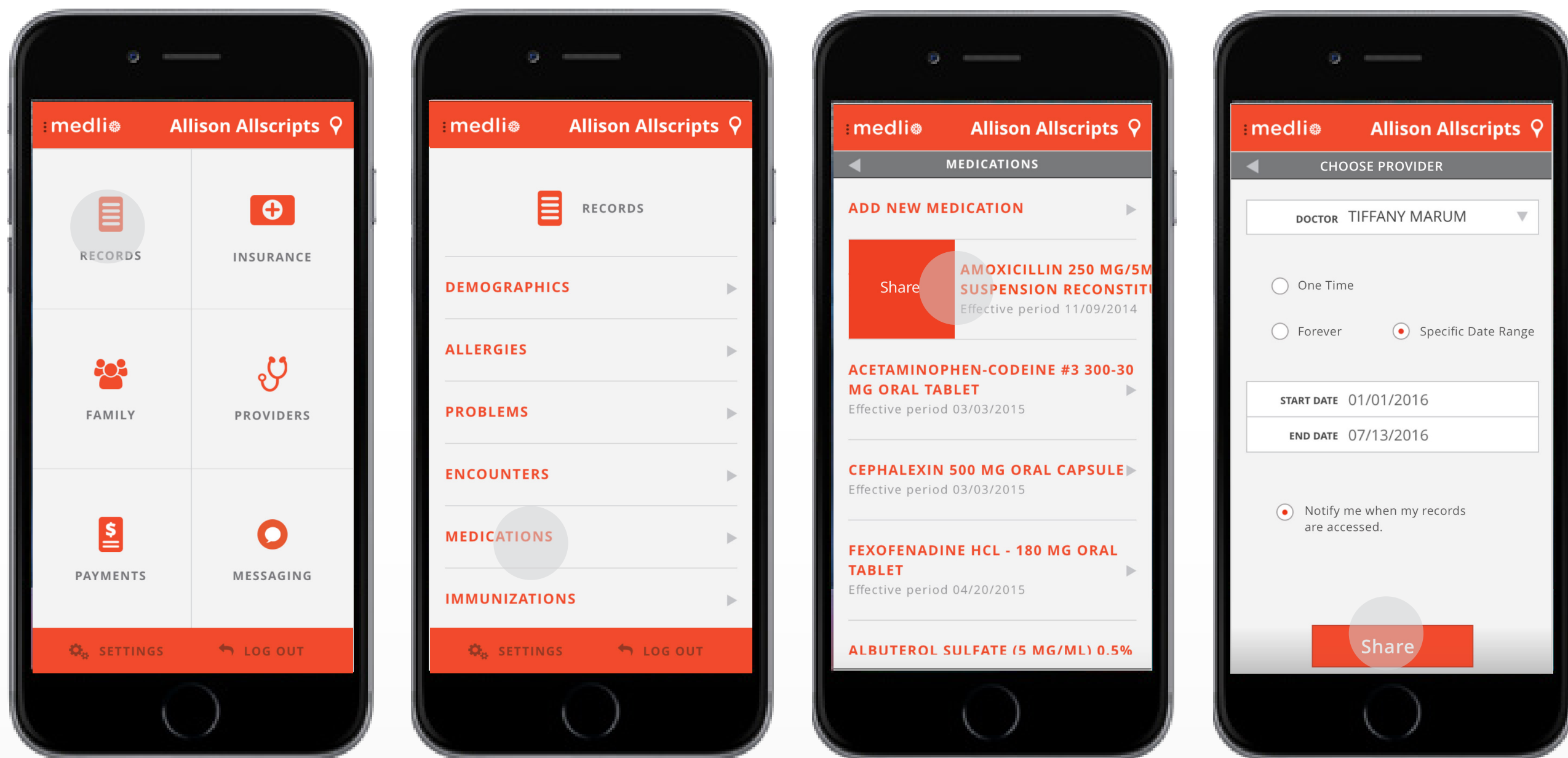
For example, we are not supporting consumer aggregation of data for the sole purpose of aggregating data. Rather, we are empowering consumers to consolidate, manage, and own their data for the explicit purpose of putting that data to work. We enable consumers to connect to their health insurance companies in real-time so they can make informed healthcare consumption decisions in the context of benefits transparency. We further allow consumers to aggregate clinical and patient-generated data so that they have a complete and thorough health record which can be easily shared among all of their health providers. Challenges will remain around building standard APIs and protocols so that EHRs can ingest patient managed “complete health records,” but in the meantime, we can most certainly eliminate the use of frustrating clipboards which have long since outlived their function... unless, of course, their function was actually to cause frustration.

In addition to our approach, we have three patents-pending that we think offer an additional competitive advantage:

- **Virtual health insurance card** - which is essentially leveraging the X12 270/271 transaction set to create a consumer facing, real-time health insurance benefits application. (As opposed to using the 271 response data to satisfy provider inquiries of eligibility status.)
- **Point-of-care price transparency** - the ability to estimate the total cost, after adjudication, of fee-for-service encounters, including patient responsibility, prior to the visit.
- **Health insurance identity verification**, and fraudulent activity monitoring

Example Use Case:

Allison Allscripts



EXAMPLE USE CASE

Our patient, Allison Allscripts, wants to share a portion of her medical record with her primary care doctor, Dr. Tiffany Marum. Allison selects records, then chooses the information she would like to share. Here she chooses to share one specific medication, her Amoxicillin. She selects her provider from the dropdown and can choose a specific date range for sharing or she can share one-time or forever. Allison will receive notification when Dr. Marum accesses her records.