

## Telehealth

Platform Accelerator for Patients Management System

# GlobalLogic Innovation Labs

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## Patient Management System

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### Value Proposition



Patients

The therapeutic plan is integrated into daily routine

Multiple channels for communication with physician

Modern seamless experience

Deep personalization of therapeutic plans



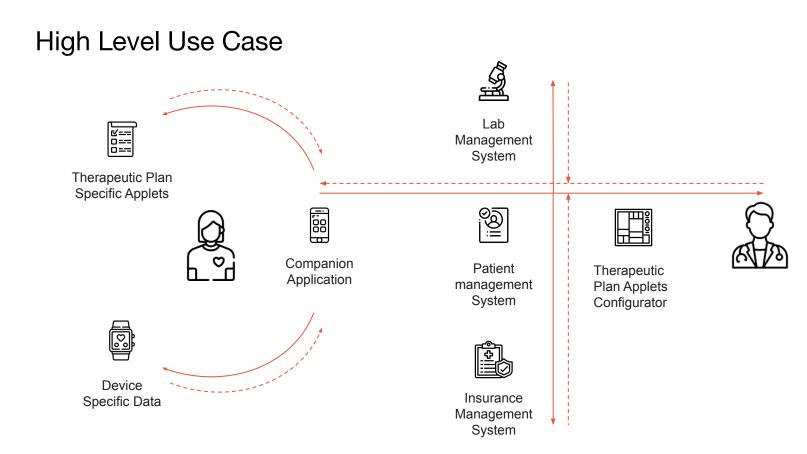
Physicians

Accelerating the process of therapeutic plan adjustment taking into account patients specificity

Reducing time required to make diagnosis

Reducing the number of actions for obtaining test results







#### How it helps

#### **Patient Centric Ecosystem**

Software ecosystem with main focus on the patient needs. It keeps patients motivated to adhere to their care plans.

#### Contactless

Facing modern health challenges, introducing 100% contactless capability for safety and convenience

#### Accessible

Cross-platform, easy-to-build framework that utilizes common technologies.

#### Modular

Small modules that can be combined in a different shape and order to satisfy various therapeutics.

#### **Patient Motivation**

Personal progress tracking and awards program motivates patients to adhere to their care plans.

#### Private and Secure

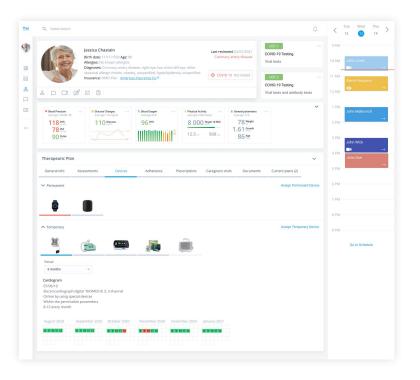
Executing HIPAA compliant security protocols as well as eliminating unnecessary paper copies of sensitive data which could be lost, forgotten or misused.

#### **Ongoing health control**

Integration with wearable devices allows physicians to monitor the patient's health state between their visits and quickly react in emergency cases.



#### Patient Management System Portal



Application for physicians helps to monitor patient's health condition, adapt their care plan on the fly and simplify communicate during a long-term chronic disease healing path.



### **Patient Companion Application**



Patient companion application helps to adhere to the therapeutic plan. It seamlessly integrates into personal schedule. It also clarifies the communication with the physician and minimizes hospital visits for patient safety.



#### Data Sources (Connected Devices)



Data from different specific wearable devices is gathered automatically. It allows physicians to monitor patient's health in a long term.



### **Cloud Infrastructure**



Companion Application





Connected Data Sources



Patient Management System



Lab Management System



Insurance Management System

Seamless integration of components and capabilities is achieved through cloud-based infrastructure, which enables both scale and flexibility.



**Cloud Architecture ۵|||**۹ Companion App **^**` Domain Services Cross-Cutting API Services Concerns Message WAF 0-Oueue API Gateway 8 8 M Smart Devices Patient Companion Vault Client API Document Reminders and Application Management Notifications IOT/API Q Topic(s) 0-- o 8 Logging ( Applets API 8-Data Types • Therapeutic Catalog Plan Manager 0-Monitoring VoiP/Chat API 9 P (Websockets) Forms/Tasks Chatbot Authentication Builder Assistant Administration API Services . . . . . . . . . 8-8 M Cloud Services ---Patient Applets Data Applets Patient Management & Manumt API Administration Web Response Administration VolP Application Processors Services (iii) ( )Video/Chat 8-API Chat Bot (Websockets) Speech Templates Services Recognition & Engine 0-Analysis 0-0----Storages 8-Administration API 0-Insurance EHR EHR Systems Domain Integration API Management & Processors Databases Integration Services 8 7 ---0----Data Buckets EHR API & Archive Patient Profile Data Analysis and Reports & Management R ĵ, Insurance Companies Insurance Data Companies Snapshots Data Processing Pipelines API 1 E 6-

Data Fabric

Analysis Services

Data Lake

Seamless integration of components and capabilities is achieved through cloud-based infrastructure, which enables both scale and flexibility.



### Patient Management System Portal Figma prototype

You can find <u>here</u>

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## Mobile Application ShowCase Scenario

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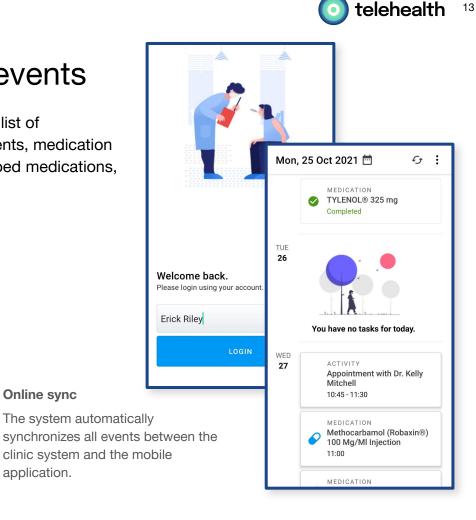
### Patient sees health-related events

Patient opens the Companion Application and sees the list of health-related events in the Events list view - appointments, medication intake reminders, tasks to go to a pharmacy for prescribed medications, etc.

**Online sync** 

application.







### Patient receives calendar notifications

Companion Application syncs events with a mobile phone calendar and the patient receives notifications about scheduled activities through the day.

26 Calendar

Dismiss

**Calendar sync** 

mobile calendar.

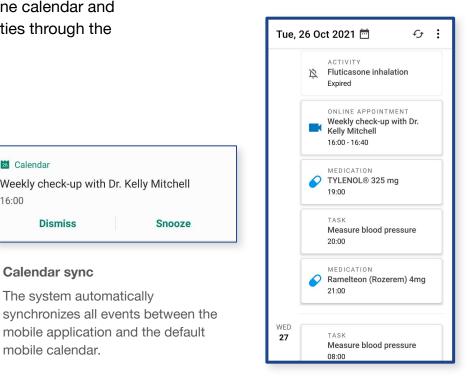
The system automatically

16:00

Weekly check-up with Dr. Kelly Mitchell

Snooze





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## Patient confirms a medication intake or health-related activity completion

Patient receives a notification to take medication or do a health-related activity.

Patient confirms or declines in the application that it was accomplished.



ion intake	< 🕜 Medication Inta	ke
mpletion	<b>Ramelteon (Rozerem) 4mg</b> Fri 29 Oct, 21:00 - 22:10	•
	Organizer:	Kelly_Mitchell
a health-related	Created at: 16	< Activity
as accomplished.	Description Take 1 tablet with or without food, 30 bedtime.	Muscles recovery exercises > Fri 29 Oct, 09:00 - 09:30
		Organizer: Kelly_Mitchell
		Created at: 17 Oct 2021, 08:15
		Description Exercises to restore strength and mobility to your hip: 1. Standing Knee Raises. 2. Standing Hip Abduction. 3. Standing Hip Extensions.
	🖉 ACCOMPLISHE	<ol> <li>Stair Climbing and Descending.</li> <li>Elastic Tube Exercises.</li> </ol>
Multiple medications		
One event can have one or multiple medications in it, depending on the specific treatment plans.		MARK AS COMPLETED

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### Patient joins online appointment call

Patient opens an Online appointment scheduled event and joins the video call.

Doctor opens the same appointment from the clinic web portal and provides online consultation.

visit.



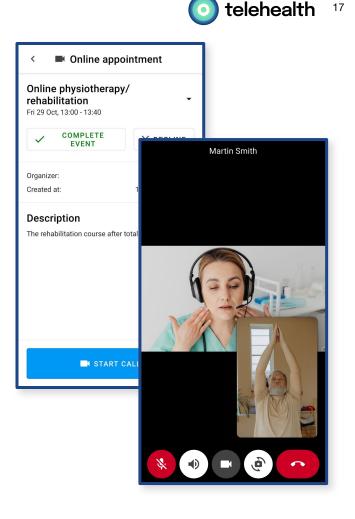
nent call	< 🔍 Online appo	< <ul> <li>Online appointment</li> </ul>	
ient can	Weekly check-up with Dr. Kelly Mitchell		
nd joins the	Wed 27 Oct, 15:00 - 15:40		
	Organizer:	Kelly_Mitchell	vid Ma
	Created at:	17 Oct 2021, 07:15	
portal and	Description Weekly online meeting to chec treatment progress.	k health status and	
	START (	CALL	
Video Calling			
Reliable video communic	ation serves		
as a complete substitute	for a site		
visit		8 10	

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### Online appointment use cases

- Remote surgery consultation pre- and post-op surgical consultations, monitoring of wound healing
- Remote physiotherapy/rehabilitation demonstration how to perform exercises, check in to assess progress
- Remote nursing monitor basic health level, help with simple and urgent cases, routine pre-hospitalization and post-hospitalization care







### Patient receives prescribed medicine

Patient automatically receives a scheduled event to buy prescribed medication when it is prescribed by a doctor.

Patient has all needed information in the event description, including the barcode that needed to be shown in a pharmacy.



< DIP	rescription		
Albuterol Sulfate 90 Mcg 17 Oct 2021 - 15 Nov 2021 B SHOW SCANNABLE CODE			
Prescription ID:	QWxidXRlcm9sIFN1b0		
Organizer: Created at:		AgTWNn elly_Mitchell 2021, 08:15	
		,	

#### Description

180 mcg (2 puffs) every 4 to 6 hours as needed. Do not exceed 12 puffs/day. At severe episodes: 4 to 8 puffs every 20 minutes for up to 4 hours, then 4 to 8 puffs every 1 to 4 hours as needed.

#### Prescription expiration reminders

Patient will see how many days left to go to a pharmacy before the prescription expired.

MARK AS COMPLETED



#### Pharmacy processes e-prescription

Doctor prescribes medicine and puts an order to a pharmacy. Pharmacy automatically receives a task to prepare a prescribed medication (note: pharmacy flow is out of scope).

Both the patient and the doctor see the e-prescription order progress and information about the delivery status in the event details.

**Prescription order status** 

Doctor can see the actual status of the prescription, e.g. Processing, Out for delivery, Completed, Cancelled.



< D Prescription		
Meloxicam 60 Tablet of 15mg 23 Oct 2021 - 22 Nov 2021		
Delivery	-	
Delivery statu	s: Waiting for pick-up	
Delivery opera	tor: UPS	
Shipping addr	ess: 2166 Stonepot Road Rochelle Park NJ 07662 USA	
Notes: Delivery time and date will be given when the order status changes to 'Ready for pick-up'.		
Order	•	
Order status:	Processing	
Order ID:	21525-198	
Pharmacy:	Walmart Pharmacy	
Address:	845 Bridge Street Tulsa OK 74120 USA	
Phone:	918-848-4705	
Working hour	S: Open 24/7	
Organizer:	Kelly_Mitchell	



### Mobile Application Figma prototype

You can find <u>here</u>



## THANK YOU

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