

eHealth Monitoring System Presentation

Mobile app

Web app

Integrated Health Monitoring System

Democritus University of Thrace

- Design and development of the app and the cloud platform
- Development of the core functionalities and services

BioAssist

- Integration of commercial medical and wearable devices based on project requirements
- Administration of platform back-end during the pilot
- Creation of training material for the end-users
- Provision of technical support throughout the pilot
- Preparation of reports regarding pilot results

Core Features



Videocalls

Communication
with doctors

Communication
with relatives
and friends



Biosignal
measurements

Physical activity

Medical history
(lab tests,
allergies,
medications,
etc.)



Reminders

Alerts

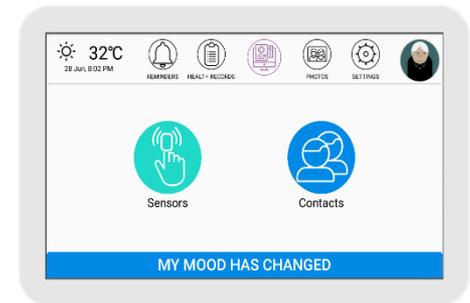
Reports

Hardware

Each user is provided with:

Tablet

- Service provision through our mobile app
- Devices interconnection and videoconferencing

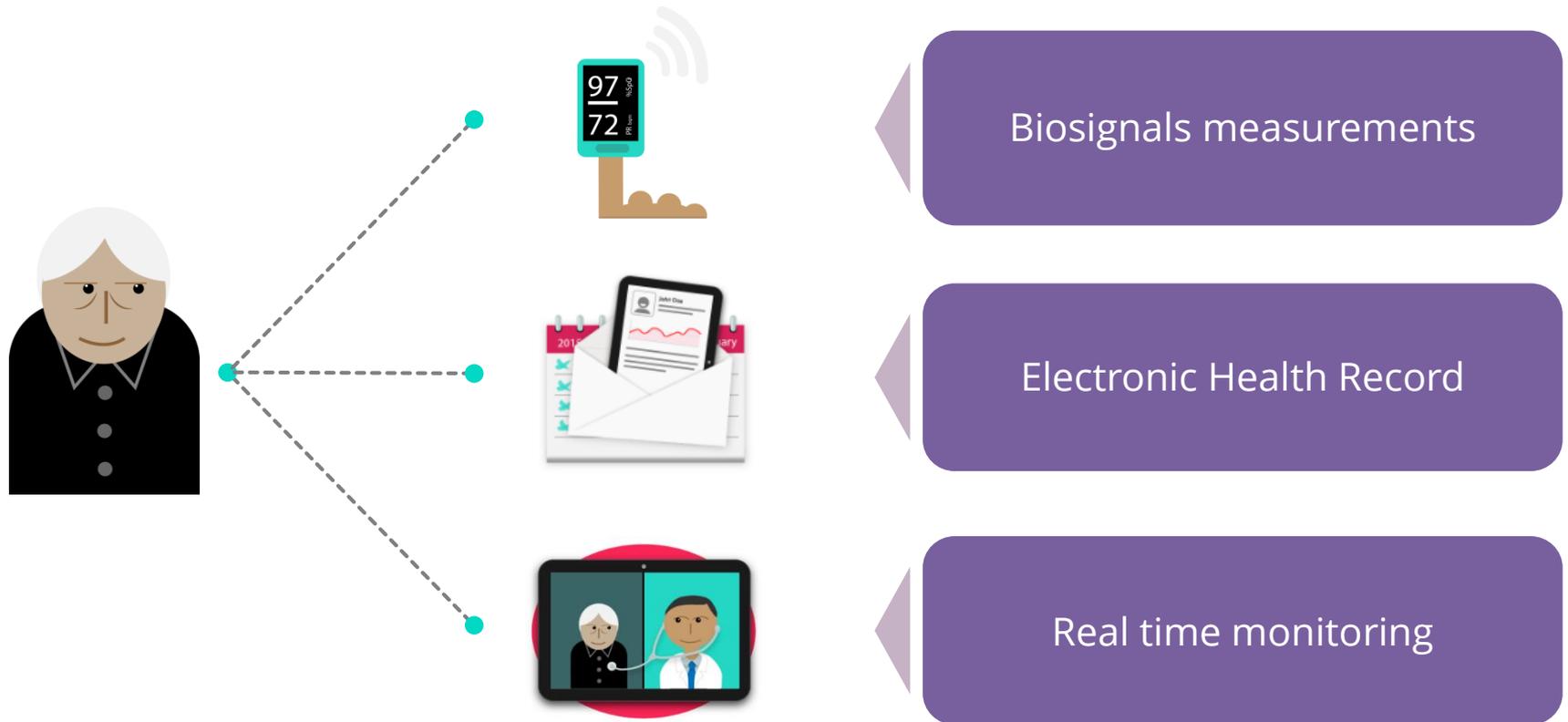


Wireless medical sensors

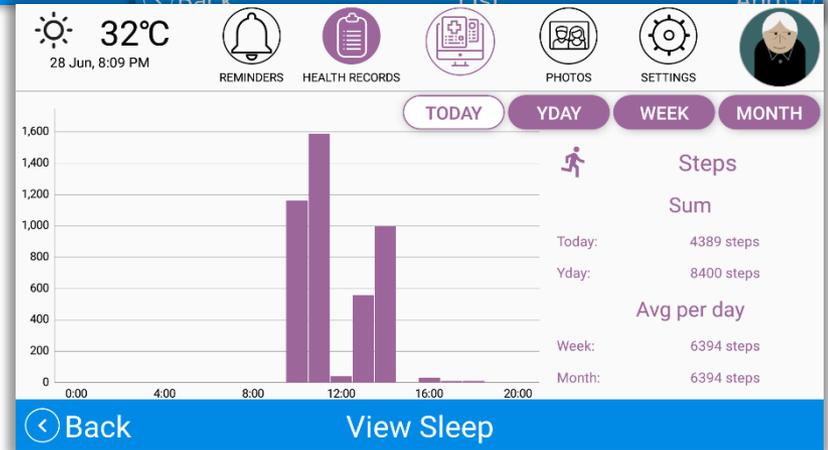
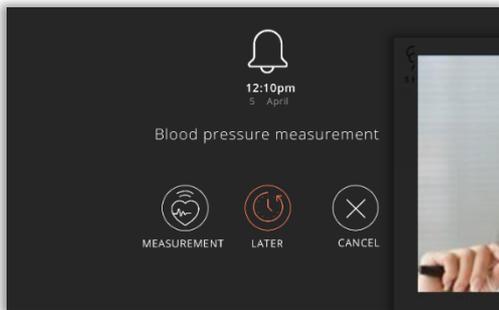
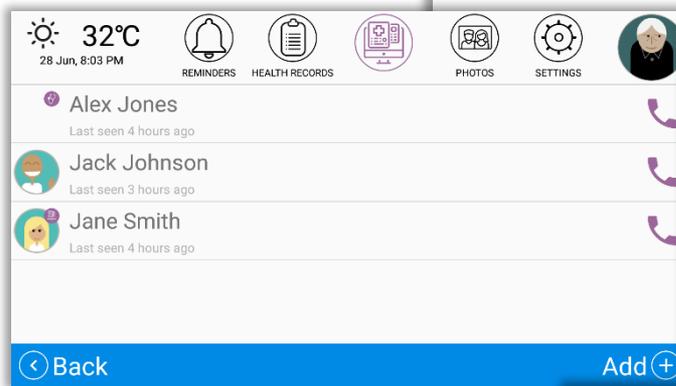
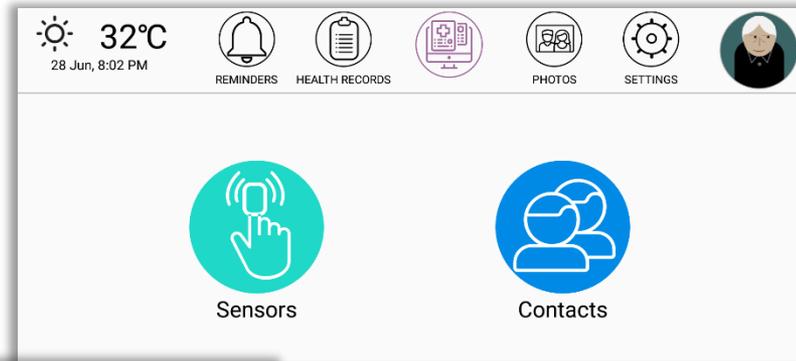
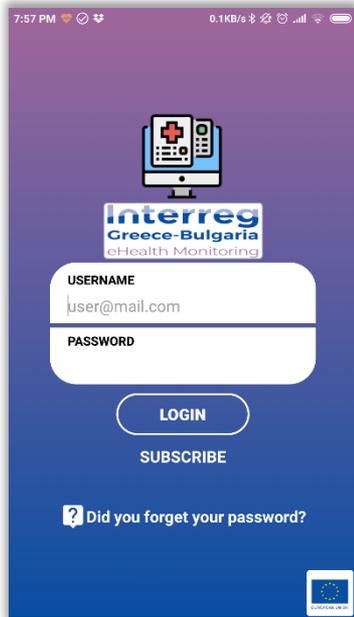
- Wireless connection with the mobile app for vital signs monitoring
 - ✓ SpO2
 - ✓ Pulse rate
 - ✓ Blood pressure
 - ✓ Physical activity
 - ✓ Sleep



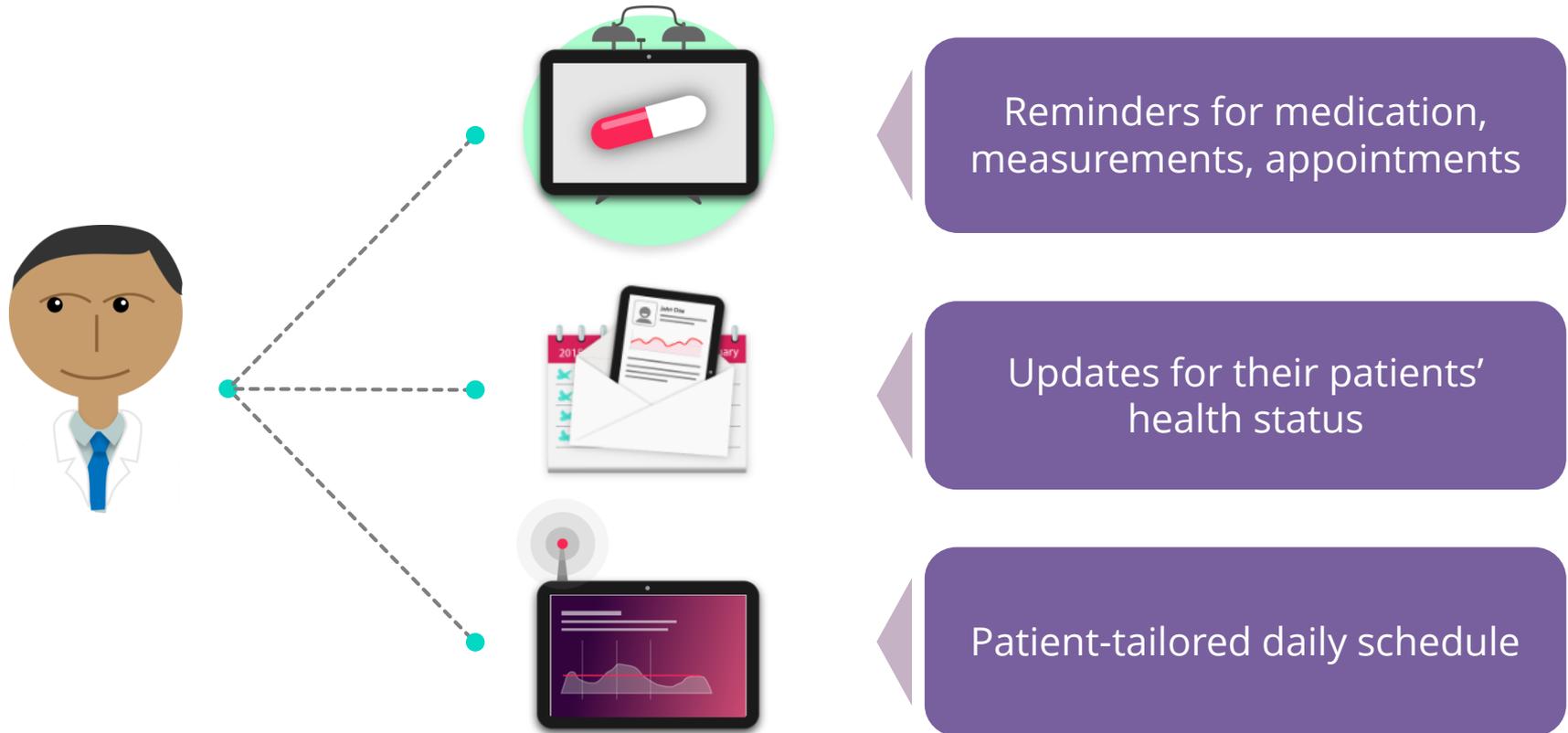
Patients



Mobile app



Doctors



Web app

interreg Greece-Bulgaria
Mary Johnson
demo.patient@bioassist.gr
00302615008000
Favorite
Last activity: 20 hours ago

BioSignals
Recent Biological Daily Mood: Better
2019-06-28 16:58

Activity
Recent Activity Steps: 4389
2019-06-28

Reminders
Recent Reminder: not found
2019-06-28 12:00
Blood Pressure
+ Add new

Exams
Exams not found
+ Add new

Notes
You have no notes for this patient

Mary Johnson

BioSignals Activity Exams Medications Allergies

Medications

Medication	Date	Notes
paracetamol	2019-02-22 - 2019-02-24	
cefactor	2019-02-22 - 2019-02-28	

Mary Johnson

BioSignals Activity Exams Medications Allergies

Allergies

Allergy	Date	Notes
House dust mites	2019-02-22	
Grass pollen	2019-02-22	

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Reminders

Date	Occurrence	Message
2018-09-30 18:40	Once	Sprometry
2018-09-30 18:45	Once	Oxygen Level
2019-01-14 00:15	Once	Blood Pressure

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BioSignals Activity Exams Medications Allergies

Notifications thresholds

Oxygen Saturation

2007-09-01 2018-01-28

Average: 98%

Time	Oxygen Saturation (%)
12:52 pm	98%
1:07 pm	96%
1:22 pm	97%
1:37 pm	96%
1:52 pm	95%
2:07 pm	94%
2:22 pm	95%

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BioSignals Activity Exams Medications Allergies

Notifications thresholds

Biosignal: Blood Glucose
Condition: Greater or equal than
Threshold: 250
Notifications: Emergency

Biosignal	Condition	Threshold	Notifications
Blood Glucose	Greater or equal than	250	Emergency

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BioSignals Activity Exams Medications Allergies

Last Week
Date From: 2019-06-24
Date To: 2019-07-01

Steps

Date	Steps
Jun 27	8500
Jun 28	4500
Jun 29	0
Jun 30	0
Jul 1	2500

Integrated Sensors

Oximeter



Jumper JPD-500F

Blood Pressure Monitor



iHealth Track

Activity Tracker



H10Pro

Demo

1 Doctor sets parameters for patient monitoring

- A Doctor logs in to the Doctors' Web App
- B Doctor creates a personalized measurement schedule

2 Daily use by the patient

- A The patient performs daily measurements
- B Patient calls Doctor on the app to schedule an appointment
- C Doctor views patient's PHR and sets weekly report