





E-Health Service User Manual

Version 1.0

Project Name	Version: 1.0
E-Health Service	Date: 2013-01-19

Revision History

Date	Version	Description	Author
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2013-01-05	0.2	Web application	Stefania Pezzetti
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1. Introduction

1.1 Purpose of this document

The purpose of this document is to explain functionalities of the *E-Health Service* web application, android application and Windows Phone application to customers. After reading this document users should be able to understand how to use the system.

1.2 Document organization

The document is organized as follows:

- Section 1: <u>Introduction</u> of the system, describes contents of this guide, used documentation during developing process etc.
- Section 2: <u>General Overview</u>, describes the general application purpose and reported administrator and first aid credentials
- Section 3: <u>Web Application</u>, describes the functionalities and the usages of the users.
- Section 4: <u>Android Application</u>, describes the functionalities and the usages of the users.
- Section 5: <u>Windows Phone Application</u>, describes the functionalities and the usages of the users.

1.3 Intended Audience

The intended audience for this document is:

- The end users of the system;
- All team members of the project;
- The project customer;
- The project supervisor.

1.4 Scope

This document describes the functionalities implemented in the E-Health Service project which are based on five different types of users interacting with the system depending on the permission level; unregistered users that can use the application for gathering information about E-Health Service doctors; doctors, who can manage patients' vital parameters and medical notes, besides send alarms to first aid defining patient's diagnosis and alarm level; patients, who can update their current location and insert their vital parameters measurements, in addition they can send generic alarms to first aid using mobile applications; first aid which is warned when someone (doctor or patient) sends an alarm; administrator who can change the first aid login password.

1.5 References

For additional information the following documents can be used as reference:

- Project Plan Document:
 - → http://www.fer.unizg.hr/_download/repository/Project_Plan%5B5%5D.pdf
- Requirements Definition Document:
 - \rightarrow http://www.fer.unizg.hr/_download/repository/Requirements_Definition%5B6%5D.pdf
- Design Description Document:
 - → http://www.fer.unizg.hr/_download/repository/Design_Description%5B1%5D.pdf
- Acceptance Test Plan Document:
 - → http://www.fer.unizg.hr/_download/repository/Acceptance_Test_Plan%5B4%5D.pdf

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2. General Overview

The idea behind the whole project is create a system that allows a better communication between doctors and patients and the main goal of E-Health Service project is patient's health monitoring.

In addition, because there can be situations where it is necessary to intervene as soon as possible, also first aid is an important part in our system.

2.1 Purpose and Intended usage scenarios

The purpose of E-Health Service is help doctors to perform their profession in the best way. It is known that doctors have many patients who can use measuring instruments to measure their vital parameters (glycaemia, blood pressure, temperature, oxygen saturation, heart rate, respiratory rate) at home, without going to hospital. The E-Health Service system has the objective to enable patients to send values measured by these measuring instruments to their doctors. So doctors can study patient's vital parameters and decide to intervene when it is needed. Thanks to the system doctors can also manage the patient's medical record, writing notes and eventually uploading files and images.

Patient's functionalities are limited respect with doctor's functionalities. However they are very useful, in fact, besides send their vital parameters, patient can use the alarm button in the mobile applications to send a generic alarm to first aid.

First aid can consult a web page where all alarms from doctors and patients are displayed in real time and there is the possibility to visualize a map with patient's position.

Patients are registered in the system by doctors and doctors are inserted in the system by administrator, who can also change first aid password.

Obviously the system allows an easy personal profile management for each user.

2.2 Profile already registered in the system

Administrator and first aid are already registered in the system; in addition we put some fake data in order to allow teachers to understand how the system works. In the following table you'll find accounts credentials:

USER	Username	Password
Administrator	administrator	administrator
First aid	firstaid	firstaid
Doctor - Darell Taylor (example)	darell.taylor@ehealth.com	а
Patient - Abel Evans (example)	evans.abel@ymail.com	1234

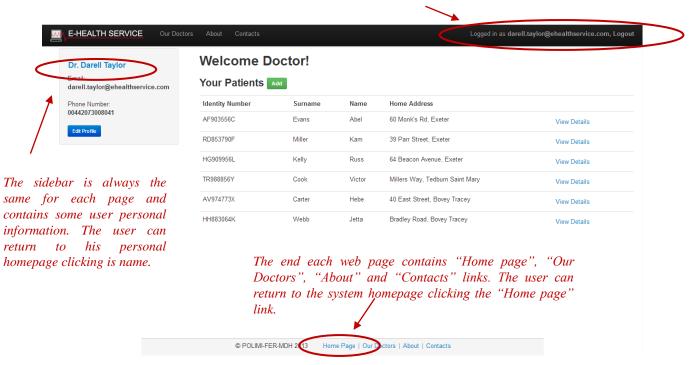
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3. Web Application

The E-Health Service web application can be used by five different users. The functionalities are listed based on the user type. Before starting with user types below there is the system index with the login form and a logout example. Each authenticated user can be logged out of the system in the same way.



The topbar on the right is always the same for each page, so the user can logout from the system From any page by clicking the "Logout" link.



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3.1 Unregistered User

3.1.1 Gathering information about E-Health doctors

From the system index outside users click on "Our Doctors" and the screen with all doctors is displayed:

E-HEALTH SERVICE Our Doctors A	out Contacts				Welcome!	
Username	Our Doc	tors				
Password	Name	Surname	Email			
Login	Darell	Taylor	darell.taylor@ehealthservice.com	View Public Information		
	Irvin	Williams	irvin.williams@ehealthservice.com	View Public Information	This link leads to	
	Jeremy	Stevens	jeremy.stevens@ehealthservice.com	View Public Information	doctor pub	lic
7	Mick	Butler	mick.butler@ehealthservice.com	View Public Information	information	
	Ned	Dixon	ned.dixon@ehealthservice.com	View Public Information		
Doctors list	Myles	Hunt	myles.hunt@ehealthservice.com	View Public Information		
	Adela	Ali	adela.ali@ehealthservice.com	View Public Information		
	Lauren	Scott	lauren.stott@ehealthservice.com	View Public Information		
	Marlene	Khan	marlene.khan@ehealthservice.com	View Public Information		
	Stevie	Cox	stevie.cox@ehealthservice.com	View Public Information		
	Paula	Wilkinson	paula.wilkinson@ehealthservice.com	View Public Information		
	Regan	Bell	regan.bell@ehealthservice.com	View Public Information		
		© POLIMI-FER-MDH 20	13 Home Page Our Doctors About Contacts			

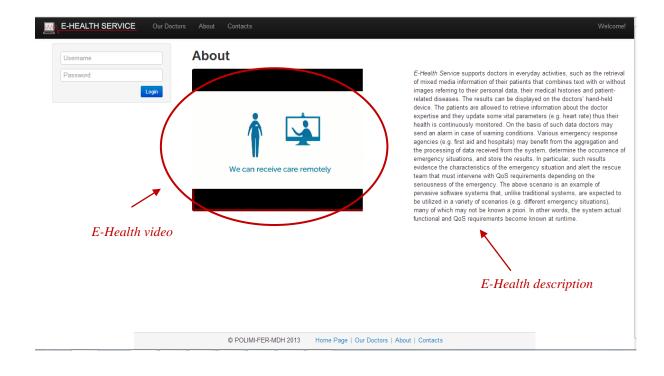
From this screen outside users can click on "View Public Information" and consult public information of a specific doctor:

Username		Doctor Public Information					
Password		Name	Surname	Email			
	Login	Darell	Taylor	darell.taylor@ehealthservice.com			
Doctor information	public	for Disease Contr School of Public H research interests the upper gastroin involved a variety clinical nutrition sh through the years emphasizing prev within our UGI Cas mutrition in the elio cardene reduced hypotheses, inclut intervention). In co conduct nested co conduct nested co Upper Castrointes To accomplish the function changes (high penetrance, and better undersi and gastric non-c- gastroinnaire data susceptibility gene and questionnaire venous blood sam July 2006, with the being conducted al potential chemorpr study conducted al	bit 1978 as an EIS officer and while ach, and came to the NiCi 11983. focus on developing cancer preve testinal (UG) track including esophic of different research approaches, is dires Beginnia with the Nutrito test testinal (UG) track in could be approximate testinal (UG) track in the Cancer institute associated with the Cancer institute second to Jack could be approximate and the approximate testinal cancer Genetic Suides were and the Cancer of Suides. The approximate testinal testinal cancer Genetic Suides were and and cancer Benetic Suides were and and cancer Benetic Suides were and and cancer Benetic Suides were and and cancer Benetics. The angle and track tactor information on all an on patients presenting to the Endos s, we developed a Jamily study- testing and field suides. To enable a social factor information on all an our search for cancer cas pipel, a finger study confirmed UG cancer cas pipel, a finger study conduct pipel study testing confirmed UG cancer cas pipel, a finger study conduct pipel study testing confirmed UG cancer cas pipel, a finger study conduct pipel pipel pipel pipel study testing confirmed testing conduct pipel study testing confirmed testing conduct pipel study testing conduct pipel pipe	In the University of Iowa in 1973 and completed his readency in Internal medicine at Vanderbill University in 1976. He joined the Centers a there completed a residency in prevention Studies Branch from 1967 – 2040 before joining the Genetic Epidemiology Branch in 2005. His intion strategies. Research Interests. My current primary research interests is in the development of prevention strategies for cancers of legal and gastic cancers, altough Irelain Interest Ingervention of their cancers, including prostate, Iung, and freast. My work has noticity in econduct of cancers prevention triats, early detection studies, eticologi studies, laboratory-based molecular research, and thervention Triak (MIT) in over 22,000 residents of Lixaka, Chans, started 1985, my research on esophageal cancer has evolved we, interdisciplinary, international research program that includes studies of etiology, genetics, early detection, and intervention, ali marry as part of the three USI cancer projects described here, but is inter-connected with a number of other studies directed by others ancer govine/bresearch/lugorg). The original goal of the Nutrition Intervention Triak (IIT) in Lixxian, China was to evaluate there leg of With the conclusion of the intervention phase in 1991, and the deterministion of part-triak resident aliand strate del go of the Chinese Academy of Medical Sciences (ICCAMS) in Beling, we continue to follow trial) participants to ascertain englene- of the Chinese Academy of Medical Sciences (ICCAMS) in Beling, we continue to follow trial) participants to ascertain englene- fit actines and strate acus and advirum in the strate strate in splase and to check and analyses. The tratest in 1995 to look for majer susceptibility genes for UGI cancer s and identify the genetic changes associated with threa divelopment. In obtentialy serve as early detection markers; and We examine germ-line genetic variants in relation to cancer for development is infasted to atu/us explase mand analyses. The tratest anotexplas	Button tha allows public informatic download		

Clicking "Download PDF" button outside users can download doctor public information as PDF:

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	Doctor Public Information				
Password	Name	Surname	Email		
Login	Darell	Taylor	darell.taylor@ehealthservice.com		
File downloaded	for Disease Cont Schol of Public i research interest the upper gastroi involved a variety clinical nutrition si through the years emphasizing pre- within our UGI Ca nutrition in the eti carotene reduced hypofheses, incli interventer educed hypofheses, incli interventer educed bypofheses, incli interventer educed hypofheses, incli interventer educed hypofheses, incli interventer educed bypofheses, incli interventer educed hypofheses, incli interventer educed hypofheses, incli interventer educed hypofheses, incli interventer educed hypofheses, incli interventer educed hypofheses, incli interventer educed hypofheses, incli interventer educed Satisfication Caster educed Gastroiter educed hypofheses, incli interventer educed hypofheses, incli int	ion 1976 as an EIS officer and v eath, and came to the NIC in 1985 s focus on developing cancer pre netestinal (UG) truck, including ose or of different research approaches or of different research approaches into an integrated, highly colabor ention. If y research is conducted near Research for oup (http://dce ology and prevention of UG) cancet of total mortality, total cancer morta ding nutrition, carcinogens, infect olaboration with the Cancer Institu associated with oncogenes that associated with oncogenes that associated with oncogenes that act and cancer or SUMOS y. This project and cancer biology. This project and cancer biology. This project and cancer biology. This project and and the presenting to the for- se, we developed a -family study- based nish research for moderate risk as lobigically-confirmed UG cancer or in our search for moderate risk as lobigically-confirmed UG cancer or pile, afinger stick blood sample, p e primary gold oftentifying project. This or the stick blood sample, p e primary gold oftentifying project.	his there completed a residency in preventive medicine. He is the vasa chied of the Cancer Prevention Studies Branch for varion strategies. Research interests: My current primary re- higeal and gastric concrers, although I relain interest in prev- including the conduct of cancer prevention risis, early deti- intervention Traits (MT) in over 32,000 residents of Linxian, take, interdiceQinity, international research program that in primarly as part of the three UG cancer projects described cancer govident/esserchulograf). The original goal of the Ni rs. With the conclusion of the intervention phase in 1991, and y and gastric cancer motally, objectives now include. Deti- ns, genetics, and other exposures; Studies of natural histor is using baseline serum. In 1999 and 2000 we collected add started in 1995 took for major succeptibility genes for UC rations, emphasizing recessive loss-of-function changes the situation started in 1995, we initiated a collaboration with the Sh study of somatic carciton markers, and We ex- nes, as well as moderate risk (low penetrance, high previate any detection markers, we advide at - endoscopy study- in any detection markers, we advide at - endoscal sample and any detection markers, we advide at - endoscal sample and the any detection markers, we advide at - endoscal sample and the any detection markers, we advide at - endoscal sample and the any detection markers, we advide at - endoscal sample and the any detection markers, we advide at - endoscal sample and the any detection markers, we advide at - endoscal sample and the information endoscal strates in this preventive blood sample and the any detection markers, we advide at - endoscal sample and the sample the strates and provide a blood sample and the information studies. South shows cancer Hospital. To examine ger- which recrusts highly informative multiples families (pedigree think prevention), betains informatio buccal samer, and a tumor specimen from surgical resection tion Subdes-South exame	toy in internal medicine at Vanderhit University in 1976. He joined the Cen exerview his master's and doctrard degrees in epidemology frame hi in 2005. Hi search interest is in the development of prevention strategies for cancer ention of other cancers, including prostate, Lung, and breast. Hy work ha tocino studies, etodogis studies, laboratory-based medicular research, and chans, started in 1985, my research on esophageal cancer has evolved cludes studies of cloboly genetics, acry detection, and intervention, all here, but is inter-connected with a number of other studies directed by of thrition intervention. Trais (MT) in Luxian. Chain was to evaluate the role of the determination that the micronutrient combination of selenium/lamin eminiation of post-trais (MT) in Luxian. Chain was to evaluate the role of the determination that the micronutrient combination of selenium/lamin eminiation of order-toting (gene-environment, gene-gene, and ge Beijing), use continue to filow trip participate to ascortane endpoints, ar filomal biod samples to permit expanded DIVA and biotamical parts and Cancer Hospital and Institute (SCIC). Tayuan, Sharifi Nation State (SECC), but also includes other UGI cancers (gastric cardia cancer or Gi anarchaine straigical specimies. To permit evaluation Provine, Chan errorino-turnor study) - by recruiting cancer cases surgically resected at the micrino-turnor surgical specimes. To permit evaluation Provine, Chan errorino-turnor surgical specimes. To permit evaluation for major risk is with 2 - UGI cancer cases and available DIVA) and obtains blood sampli es of cases). The Barrett's Esophagues Early betecton Study was initiation arrett's esophague. Registry patients and non-the genetic variants in rett's esophague. Registry patients and non-the patients endoscoped in is of cases). The Barrett's Esophagues Early Detecton Study was initiation arrett's esophague. Registry patients and non-the patients endoscoped in is docen controled (Eff) form those without. This BE Case-control study in arre	
				Mostra tutti i downlo	



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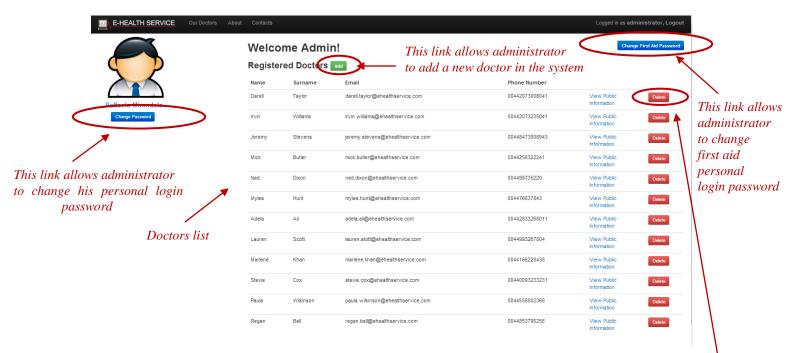
3.1.3 Consulting the contact page

E-HEALTH SERVICE Our Docto	ors About Contacts			Welcome!
Username	Contacts			
Password	Gregorio Perego	Bojan Kosanovic	Vedran Sikic	
Login	🔽 gregorio.perego@gmail.com	🛛 bojan.k1234@gmail.com	🛛 sikic.vedran@gmail.	.com
	Stefania Pezzetti	Tomislav Tolj	Petar Kekez	
	💌 pezzettistefania@gmail.com	tommy.t.emmanuel@gmail.com	💌 petar.kekez@outloo	vk.com
		Marko Kelava		
		🔤 lord.targaryen@gmail.com		
	X			
-				
System dev	velopers' contacts			
	•			
	© POLIMI-FER-MDH 2013	Home Page Our Doctors About Contacts		

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3.2 Administrator

In the administrator personal the list with all doctors is displayed. The administrator can add a new doctor, delete a doctor from the system, change the first aid login password and his personal login password:



This link allows administrator to delete the specific doctor

3.2.1 Add a doctor

The administrator has to fill the form in order to insert a new doctor in the system and then click the "Confirm" button:

E-HEALTH SERVICE	Our Doctors About Contacts	Logged in a	s administrator, Logout
	Register a n	new Doctor	
	Name	Darell	
	Surname	Taylor	
Raffaela Mirandola	Email	darell.taylor@ehealthservice.cor	
Change Password	Password		
	Confirm Password		
	Phone Number	00442073008041	
	Public Information	Biography: Dr. Taylor received his medical degree from the University of Iowa in 1973 and completed his medicine at Vanderbilt University in 1976. He joined the Centers for Disease Control in 1976 as an EIS o completed a residency in preventive medicine. He received his master's and doctoral degrees in epidemit Harvard School of Public Health, and came to the NCI in 1983. He was chief of the Cancer Prevention \$1987 – 2004 before joining the Genetic Epidemiology Branch in 2005. His research interests focus on de prevention strategies. Research Interests: My current primary research interest is in the development of for cancers of the upper gastointestinal (UGI) tract, including esophageal and gastric cancers, although prevention of other cancers, including prostate, lung, and breast. My work has involved a variety of differe approaches, including the conduct of cancer prevention trials, early detection studies, eitologic studies, J molecular research, and clinical nutrition studies. Beginning with the Nutrition Intervention Trials (NIT) in of Linxian, China, started in 1985, my research nor esophageal cancer has evolved through the years into highly collaborative, interdisciplinary, international research program that includes studies of etiology, ge detection, and intervention, all emphasizing prevention. My research to conduct de primarily as part of the projects described here, but is inter-connected with a number of other studies directed by others within or studies of the conduct of cancer context on the studies directed by others within or studies of the conduct of cancer (and the number of other studies directed by others within or studies directed by others within or the projects described here, but is inter-connected with a number of other studies directed by others within or studies directed by others within or the projects described here, but is inter-connected with a number of the studies directed by others within or the projects described here, but is inter-connected with a numbe	officer and while there liology from the utdies Branch from eveloping cancer prevention strategies I retain interest in ant research laboratory-based over 32,000 residents o an integrated, enetics, early three Ufic Cancer
		Confirm Cancel	

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3.2.2 Change first aid login password

The administrator has to insert the new password and confirm it. Then click the "Save Changes" button:

	ur Doctors About	Contacts	Logged in as administrator, Logout
		Confirm New Password	
Raffaela Mirandola		Save Changes Cancel	
		@ POLIMI-FER-MDH 2013 Home Page Our Doctors About Contacts	

3.2.3 Change personal login password

The administrator has to insert is current password, then the new password, confirm it and click the "Save Changes" button:

	Our Doctors About Contacts		Log	ged in as administrator, Logout
Raffaela Mirandola	Change Per Current Password New Password Confirm New Password	sonal Password		
Change Password		Save Changes Cancel		
	© POLIMI-FER	R-MDH 2013 Home Page Our Doctors About	Contacts	

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3.3 Doctor

In his personal homepage is displayed a list with all doctor's patients.

Dr. Darell Taylor Email: darell.taylor@ehealthservice.com	Welcome D Your Patients	octor!		This link allows docto insert a patient in the	
Phone Number:	Identity Number	Surname	Name	Home Address	
00442073008041	AF903556C	Evans	Abel	60 Monk's Rd, Exeter	View Details
Edit Profile	RD853790F	Miller	Kam	39 Parr Street, Exeter	View Details
	HG909956L	Kelly	Russ	64 Beacon Avenue, Exeter	View Details
	TR988856Y	Cook	Victor	Millers Way, Tedburn Saint Mary	View Details
link allows doctor to edit ersonal profile	AV974773X	Carter	Hebe	40 East Street, Bovey Tracey	View Details
ersonal projue	HH883064K	Webb	Jetta	Bradley Road, Bovey Tracey	View Details
Patients list					
				This link allows of details regarding patient	

3.3.1 Register a new patient

Doctor has to fill the form to register a new patient. He has to insert name, surname, email, home address, phone number, identity number, date of birth and eventually some mandatory vital parameters. Then click the "Confirm" button. If the registration successfully finishes the patient details page is displayed. The patient will receive an email from the system as confirmation. In the same mail there is also a random password generated by the system. The patient has to use this password to log in the system.

E-HEALTH SERVICE OU	r Doctors About Contacts		Logged in as darell.taylor@el	nealthservice.com, Logout
Dr. Darell Taylor	Register a n	ew Patient		
Email: darell.taylor@ehealthservice.com	Name	Abel		
Phone Number: 00442073008041	Surname	Evans		
Edit Profile	Email	abel.evans@post.net		
	Home Address	60 Monk's Rd, Exeter		
	Phone Number	01392661000		
	Identity Number	AF903556C		
	Date Of Birth	1973/03/25		
	Mandatory Vital Parameters	Sugar Heart Rate Respiratory Rate Ø Oxygen Saturation Temperature Pressure		
		Confirm Cancel		
	© POLIMI-FEI	R-MDH 2013 Home Page Ou	Doctors About Contacts	

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3.3.2 View patient details

The patient details page is displayed when a patient is registered in the system by a doctor or when a doctor from his personal homepage decides to consult details of a certain patient.

Uur Do	octors About Cor	ntacts		Logged in as dare	ll.taylor@ehealthservic	e.com, Logout
Dr. Darell Taylor	Abel L	Evans Vital Parameter		link allows docto nt's vital parame	D	elete Patient
Email: darell.taylor@ehealthservice.com	Email	Phone Number	Home Address	Identity Number	Date of Birth	\sim
Phone Number: 00442073008041	abel.evans@po	ost.net 01392661000	60 Monk's Rd, Exeter	AF903556C	1973/03/25	This link
Edit Profile	Medical					allows do to delete
	Date N	Note		F	iles 🛓	<i>a patient</i>
	05/01/2013 N 11:01:03	Medical examination for the job: all vi	tal parameters are in normal ranç	ges.	Edit	Delete
nis link allows doctor to add a	05/01/2013 E 11:04:38	Blood tests: cholesterol out of range.	All results are in the attachment		Abel Evans - Edit Blood Tests.pdf	Delete
w medical note		Ultrasound kidneys and urinary tract. problem is shown. Ultrasound image			Abele Evans - Ert Ultrasound.png	Delete
		This link all	ows doctor to			
Patient's me	edical notes	download fi	les regarding a		/	
		specific med		This link allows edit or delete a		\mathbf{A}
				eun or delete d	meaicai noie	1
						This link allows doct edit patient personal
	© F	POLIMI-FER-MDH 2013 Home F	Page Our Doctors About Co	ontacts		information

3.3.3 Medical Note management

The doctor can add a medical note, edit or delete it. The medical note is composed by a text and eventually a file. Edit a medical note means edit his text or/and change his attachment file.

3.3.3.1 Add a new medical note

The doctor has to insert a text and eventually upload a file:

Dr. Darell Taylor Email: darell.taylor@ehealthservice.com Phone Number: 00442073008041 Cast Profile	out
	out
Scegli file) Abele Evansht thumb.png	
Confirm Cancel	
© POLIMI-FER-MDH 2013 Home Page Our Doctors About Contacts	

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3.3.3.2 Edit medical note

The doctor has to change a text and eventually upload a file or change it:

Cur Doct	ors About Contacts	Logged in as darell.taylor@ehealthservice.com, Logout
Dr. Darell Taylor Email: darell.taylor@ehealthservice.com Phone Number: 00442073008041 Edd Profile	Edit Medical Note Patient: Abel Evans X-ray right thumb: small fracture of the perjultimate phalanx	
	Currently attached file: Abele Evans - X-ray - right thumb.png Scegli file Nessun file selezionato	
	Save Changes Cancel Orden Page Our Doctors A	About Contacts

3.3.3.3 Delete a medical note

The doctor has to click the button "Delete" near the specific medical note in the patient details page:

Del	ete	bu	tton
		1	

Dr. Darell Taylor	Abel	Evan	S Vital Parameters				Delete Patient
Email: darell.taylor@ehealthservice.com	Email		Phone Number	Home Address	Identity Number	Date of Birth Year-Month-Day	/
Phone Number: 00442073008041	abel.evans@)post.net	01392661000	60 Monk's Rd, Exeter	AF903556C	1973/03/25	Edit
Edit Profile	Medical	Notes	Id				
	Date	Note				Files 🛓	
				annextern and in normal concern		E	Delete
	05/01/2013 11:01:03	Medical exam	ination for the job: all vital	parameters are in normai ranges.		_	
				I results are in the attachment.		Abel Evans - Ed Blood Tests.pdf	lit Delete

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3.3.3.4 Download a medical note attachment

The doctor has to click the attachment name near the medical note. The system automatically downloads the file:

Dr. Darell Taylor	Abel	Evans	Vital Parameters			D	elete P
Email: darell.taylor@ehealthservice.com	Email		Phone Number	Home Address	Identity Number	Date of Birth Year-Month-Day	
Phone Number: 00442073008041	abel.evans@	@post.net	01392661000	60 Monk's Rd, Exeter	AF903556C	1973/03/25	E
Edit Profile	Medical	Notes Add					
	Date	Note			Files	Ŧ	
	05/01/2013 11:01:03	Medical examination	ation for the job: all vital	parameters are in normal ranges.		Edit	
	05/01/2013 11:04:38	Blood tests: cho	lesterol out of range. Al	I results are in the attachment.		Evans - Blood Tests.pdf	
	05/01/2013 11:10:09		eys and urinary tract. Si n. Ultrasound image in a	ze and position of kidneys are con attachment.	· · · · · · · · · · · · · · · · · · ·	trasound.png	1
File_downloaded	05/01/2013 11:19:08	X-ray right thum	b: small fracture of the la	ast phalanx		e Evans - X-ray - Edit ht thumb.png	
				Click on file n	ame to downlo	ad	
				the file			
		© POLIMI-FER-M	DH 2013 Home Par	ge Our Doctors About Conta	ats		

3.3.4 Vital parameters management

From patient details page, the doctor can click the "Vital Parameters" button and a page with vital parameters measurement is displayed. In the same page there is also a table with vital parameters ranges. Mandatory vital parameters are marked with *: *This link allows doctor*

, LVV	E-HEALTH SERVICE Our Doctors	About Contacts			Logged in as darell.taylo			n alarm to first aid
	Dr. Darell Taylor Email:	Abel Evans: V Measurements	ital Paran		Mandatory Parameters and Inter	\sim	Send Alarm	5
	darell.taylor@ehealthservice.com Phone Number: 00442073008041	05/01/2013 11:21:17 Sugar	Delete 90		Vital Parameter * Sugar (mg/dl):	min 70	max 100	
	Edit Profile	OxygenSaturation	95		Heart Rate (bpm): Respiratory Rate (breaths/min):	60 10	100 14	This link allows
		05/01/2013 11:22:09 Sugar	Delete		* Oxygen Saturation (%O2): Temperature (Celsius): Systolic blood pressure (mmHg):	90 36 100	100 39 140	doctor to edit vital parameters
This link allows a new vital para		OxygenSaturation 05/01/2013 11:24:15	98 Delete		Diastolic blood pressure (mmHg):	65	90	ranges and mandatory
measurement		Sugar OxygenSaturation	98 98		nk allows doctor			vital parameters
	k allows doctor to delete	05/01/2013 11:24:28 Sugar	Delete 110	to see pnotes	patient's medical	— ———————————————————————————————————	1 •. 1	
the new measure	vital parameter ement	OxygenSaturation 05/01/2013 11:25:39	95 Delete			Table wit	h vital	parameters ranges
		Sugar OxygenSaturation	100 88	<				
		Temperature	36,8					

Vital Parameters measurements

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3.3.4.1 Add a new vital parameters measurement

The doctor has to fill all mandatory field marked with *. In addition he can insert also others vital parameters values, then he has to click "Confirm". When the measurement is added the Vital parameters page is displayed.

	octors About Contacts		Logged in as darell.taylor@ehealthservice	.com, Logout
Dr. Darell Taylor Email:	Add a new Measure	ement		
darell.taylor@ehealthservice.com	Vital Parameter	Value		
Phone Number: 00442073008041	* Sugar (mg/dl):	100		
Edit Profile	Heart Rate (bpm):			
	Systolic blood pressure (mmHg):			
	Diastolic blood pressure (mmHg):			
	Respiratory Rate (breaths/min):			
	* Oxygen Saturation (%O2):	98		
	Temperature (Celsius):	37		
	Confirm Cancel			
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3.3.4.2 Delete vital parameters measurement

The doctor has to click the button "Delete" near the specific vital parameters measurement in the patient vital parameters page:

Dr. Darell Taylor	Abel Evans: \	/ital Para	meters	Medical Notes		Send A
Email: darell.taylor@ehealthservice.com	Measurements List			Mandatory Parameters and Interva	IS Edit	
Phone Number:	05/01/2013 11:21:17	Delete		Vital Parameter	min	max
00442073008041	Sugar	90		* Sugar (mg/dl):	70	100
	OxygenSaturation	95		Heart Rate (bpm):	60	100
Edit Profile				Respiratory Rate (breaths/min):	10	14
	05/01/2013 11:22:09	Delete		* Oxygen Saturation (%O2):	90	100
	Sugar	70		Temperature (Celsius):	36	39
	OxygenSaturation	98		Systolic blood pressure (mmHg):	100	140
				Diastolic blood pressure (mmHg):	65	90
Delete button	05/01/2013 11:24:15	Delete				
	Sugar	98				
	OxygenSaturation	98				
	05/01/2013 11:24:28	Delete				
	Sugar	110	>			
	OxygenSaturation	95				
	05/01/2013 11:25:39	Delete				
	Sugar	100				
	OxygenSaturation	88	<			
	Temperature	36.8				

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3.3.4.3 Edit vital parameters ranges and mandatory vital parameters

The doctor has to insert new values for each vital parameter that he wants update. He can also decide to change mandatory vital parameters using the specific check box. Then he has to click on "Save changes" button:

		Mandatory (*)	Upper Limit	Lower Limit	Patient: Abel Evans Vital Parameter	Email: larell.taylor@ehealthservice.com
			100	70	* Sugar (mg/dl):	Phone Number: 10442073008041
was age	These checkboxes		100	60	Heart Rate (bpm):	Edit Profile
	used to change par		14	10	Respiratory Rate (breaths/min):	
P	mandatory		100	90	* Oxygen Saturation (%O2):	
rs	vital parameters		39	36	Temperature (Celsius):	
			140	100	Systolic blood pressure (mmHg):	
			90	65	Diastolic blood pressure (mmHg):	
				1	Save Changes Cancel	
					Diastolic blood pressure (mmHg):	

3.3.5 Send alarm

If doctor decides to send an alarm to first aid based on vital parameters measurement analysis, he can click the "Send Alarm" button from patient's vital parameters page. The send alarm page is composed by patient's personal information. The doctor has to fill the diagnosis text area and choose an alarm level of which he and first aid team know the meaning. Then he has to click the "Confirm" button:

E-HEALTH SERVICE Our Doctors	About Contacts			Logged in a	as darell.taylor@ehea	Ithservice.com, Logout	
Dr. Darell Taylor Email: darell.taylor@ehealthservice.com	Send Alarm to First Aid Patient: Abel Evans Last Known Address Home Address Email Phone Number Identity Number Date of Birth						
Phone Number: 00442073008041 Edit Profile	60 Monk's Rd, Exeter	60 Monk's Rd, Exeter	abel.evans@post.net	01392661000	AF903556C	Year.Month-Day 1973/03/25	
	Diagnosis and Alarm					Alarm Level	
	Abnormally high blood su Diabetes.	gar.				©G1 G2 B1 B2 R1 R2 S1 S2 H1 H2 T1 T2 ALL	
	Confirm Cancel						

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3.3.6 Edit patient personal information

The doctor can edit patient personal information by clicking the button "Edit" from the patient's details page. Then he can update each field and save changes by clicking the "Save changes" button:

	loctors About Contacts		L	ogged in as darell.taylo	@ehealthservice.com, Logout
Dr. Darell Taylor Email:	Edit Patient Patient: Abel Evans	Profile			
darell.taylor@ehealthservice.com	Name	Abel			
Phone Number: 00442073008041	Sumame	Evans			
Edit Profile	Email	abel.evans@post.net			
	Home Address	60 Monk's Rd, Exeter			
	Phone Number	01392661000			
	Identity Number	AF903556C			
	Date Of Birth	1973/03/27			
		Save Changes Cancel			
	© POLIMI-FER	R-MDH 2013 Home Page Our	Doctors About Contacts		

3.3.7 Edit his personal information

The doctor can update his personal information by clicking the "Edit Profile" button that is always present in each page that he visit in the sidebar on the right. In the edit profile page he can update his personal information and the save changes clicking on "Save Changes" button:

	CE-HEALTH SERVICE Our Do	octors About Contacts		Logged in as darell.taylor@ehealthservice.com, L	_ogout
×	Dr. Darell Taylor Email: darell.taylor@ehealthservice.com Phone Number: 00442073008041	Edit Profile Name Surname Email Phone Number	Change Password Darell Taylor darell.taylor@ehealthservice.cor 00442073008043	This link allows doctor to change his password	login
Edit profile buttor	n Sideba	Public Information	Biography: Dr. Taylor received his medical de at Vanderbilt University in 1976. H completed a residency in preventir Harvard School of Public Health, a	gree from the University of Iowa in 1973 and completed his residency in internal medicine le joined the Centers for Disease Control in 1976 as an EIS officer and while there ve medicine. He received his master's and doctoral degrees in epidemiology from the and came to the NCI in 1983. He was chief of the Cancer Prevention Studies Branch from netic Epidemiology Branch in 2005. His research interests focus on developing cancer	
			(UGI) tract, including esophageal	est is in the development of prevention strategies for cancers of the upper gastrointestinal and gastric cancers, although I retain interest in prevention of other cancers, including rk has involved a variety of different research approaches, including the conduct of cancer	-
		© POLIMI-FER	R-MDH 2013 Home Page Our	Doctors About Contacts	

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The doctor can change his login password inserting his current password, his new password and confirming it. Then he has to click on "Save Changes" button:

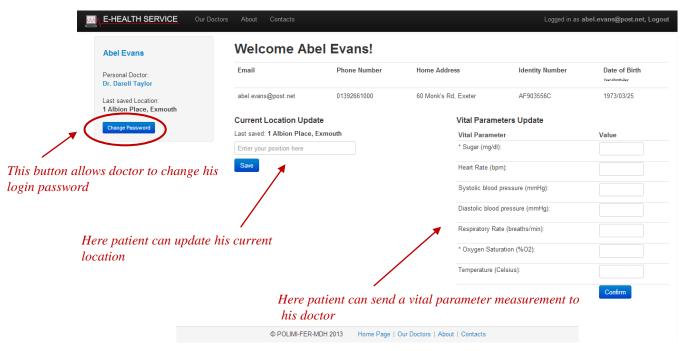
W	LE-HEALTH SERVICE Our Do	octors About Contacts	Logged in as darell.taylor@ehealthservice.com, Logout	
	Dr. Darell Taylor	•	sonal Password	
	Email: darell.taylor@ehealthservice.com	Current Password		
	Phone Number: 00442073008041	New Password		
	Edit Profile	Confirm New Password		
			Save Changes Cancel	

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3.4 Patient

The patient has a simply personal home page where he can update his current location and send vital parameters measurement to his doctor. He can also change his personal login password:



3.4.1.1 Update current location:

The patient has to fill the current location update form with his current address and then click "Save":

W	E-HEALTH SERVICE	Our Doctors	About	Contacts				Logged in as a	abel.evans@post.net, Logout
	Abel Evans		Welco	ome Abel E	vans!				
	Personal Doctor: Dr. Darell Taylor		Email		Phone Number	Home Addres	5S	Identity Number	Date of Birth Year-Month-Day
	Last saved Location: 60 Monk's Rd, Exeter		abel.evans/	@post_net	01392661000	60 Monk's Rd,	Exeter	AF903556C	1973/03/25
	Change Password		Current L	ocation Update			Vital Paramete	ers Update	
			Last saved: (60 Monk's Rd, Exeter			Vital Parameter		Value
			1 Albion Pla	ace, Exmouth			* Sugar (mg/dl):		
			Save				Heart Rate (bpm):		
							Systolic blood pre	essure (mmHg):	
							Diastolic blood pr	essure (mmHg):	
							Respiratory Rate	(breaths/min):	
							* Oxygen Saturat	ion (%O2):	
							Temperature (Cel	sius):	
									Confirm
					13 Home Page I	Our Doctore About	Contacte		

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3.4.1.2 Send vital parameters measurement

The patient has to fill the Vital Parameters Update form on his personal homepage and then click "Confirm". Vital parameters marked with * are mandatory:

ersonal Doctor: r. Darell Taylor	Email	Phone Number	Home Address	Identity Number	Date of Birth
ast saved Location:	abel.evans@post.net	01392661000	60 Monk's Rd, Exeter	AF903556C	1972/03/25
Albion Place, Exmouth	Current Location Upda	ite	Vital Paran	neters Update	
Change Password	Last saved: 1 Albion Place,	Exmouth	Vital Param	eter	Value
	Enter your position here		* Sugar (mg/o	dl):	150
	Save		Heart Rate (b	pm):	
			Systolic bloo	d pressure (mmHg):	120
			Diastolic bloc	d pressure (mmHg):	80
			Respiratory F	Rate (breaths/min):	
			* Oxygen Sat	turation (%O2):	95
			Temperature	(Celsius):	

3.4.1.3 Change personal login password

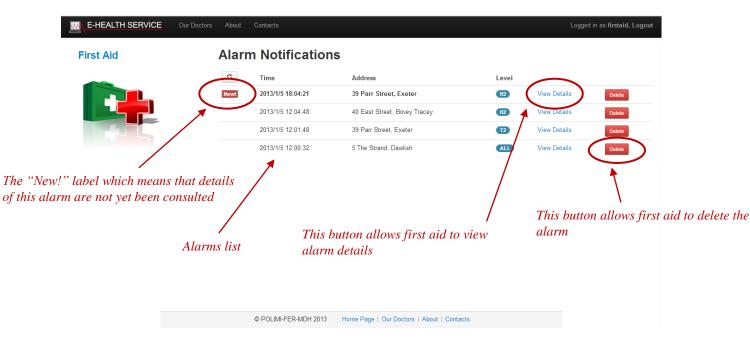
The patient has to insert his current password, the new password and confirm it. Then he has to click the "Save changes" button:

MALE-HEALTH SERVICE Our Do	ictors About Contacts	Logged in as abel.evans@post.net, Logout
Abel Evans	Change Password	
Personal Doctor:	Current Password	
Dr. Darell Taylor	New Password	
1 Albion Place, Exmouth	Confirm New Password	
Change Password	Save Changes Cancel	
	© POLIMI-FER-MDH 2013 Home Page	Our Doctors About Contacts

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3.5 First aid

The first aid team has a personal home page where all alarm sent by doctors and patients are displayed. Alarms are displayed in real time with the label "New!":



3.5.1 Alarms management

3.5.1.1 View alarms details

The first aid can consult a page with alarm details which contains patient's personal information, patient position and if the alarm was sent by a doctor also an alarm level and a diagnosis: This button allows first aid to delete the

First Aid	Patient: Abel Eva	arm Details	New!				Delete Alarm
	Personal Doctor	Phone Number	Home Address	Identity Nur		Date of Birth Year-Month-Day	Email
	Darell Taylor	01392661000	60 Monk's Rd, Exeter	AF903556C		1973/03/25	abel.evans@post.net
	Diagnosis			Level	Time		Patient Address
	Abnormally high blood	gh blood sugar. Diabetes.		G1	05/01/2013	3 11:30:21	1 Albion Place, Exmouth
ent's personal information		A VA				A	

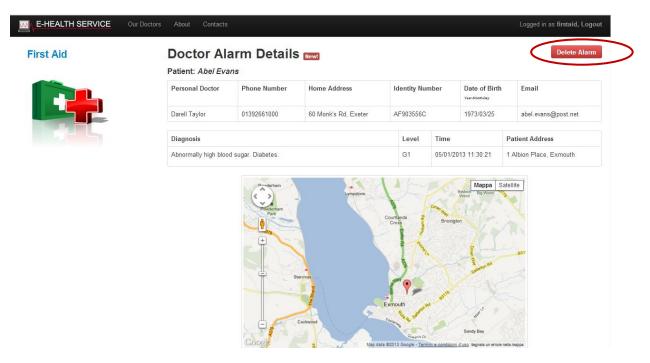
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3.5.1.2 Delete an alarm

There are two ways to delete an alarm for the first aid team. The first one is delete the alarm from first aid index, clicking the button "Delete" near the specific alarm:

E-HEALTH SERVICE Our D	octors About	Contacts			Logge	d in as firstaid, Logout
First Aid	Alarr	n Notification	s			
	C	Time	Address	Level		
	New!	2013/1/5 18:04:21	39 Parr Street, Exeter	H2	View Detais	Delete
		2013/1/5 12:04:48	40 East Street, Bovey Tracey	H2	View Details	Delete
		2013/1/5 12:01:48	39 Parr Street, Exeter	T2	View Details	Delete
		2013/1/5 12:00:32	5 The Strand, Dawlish	ALL	View Details	Delete
		© POLIMI-FER-MDH 2013	Home Page Our Doctors About Contacts			
			U			

The second one is delete the alarm from the alarm details page clicking the button "Delete Alarm":



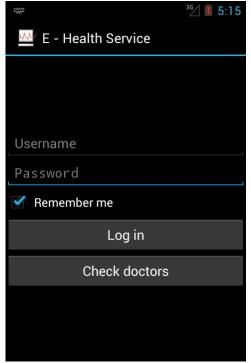
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4. Android Application

4.1 Unregistered User

4.1.1 Main Page

When starting the application user starts on the login screen, where he can enter and save username and password to login as either patient or doctor, or he can see information about doctors in the system.



4.1.2 Doctor public information

If the user clicks on "Check doctors" he is brought to the list of all the doctors. If he clicks on specific doctor, that doctor information is shown.

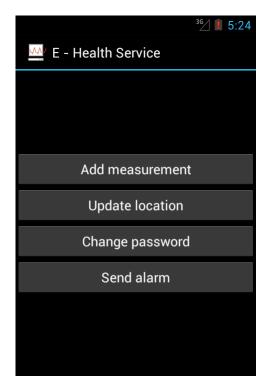
³⁶ / 12:40	³⁶ / 🔋 12:40
🚧 E - Health Service	👾 E - Health Service
Perego, Gregorio	Darell Taylor
Pezzetti, Stefania	E-mail: darell.taylor@ehealth.com
Kelava, Marko	Phone:
Kvržica, Markoslav	00440093233231 Public information:
Mrazica, Djedica	Dr. Darell Bolte Taylor is a Harvard- trained and published neuroanatomist
Taylor, Darell	who experienced a severe hemorrhage in the left hemisphere of her brain in
Williams, Irvin	1996. On the afternoon of this rare form of stroke (AVM), she could not walk,
Stevens, Jeremy	talk, read, write, or recall any of her life. It took eight years for Dr. Darell to completely recover all of her functions
	and thinking ability. Cho is the outbor of

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4.2 Patient

4.2.1 Main patient page

After logging in as a patient, user has several options he can choose: changing password, changing his current location, adding new vital parameter measurement and sending alarm.



4.2.2 Updating location

After user clicks "Update location" button new dialog is shown where user needs to enter his new address. The input field is mandatory and error will be shown if user doesn't enter the address.

	³⁶ / 📕 5:25	36 <u>/</u> [
🔟 E - Health Sei	vice	🔤 / E - Health Service
Update		
		Error
Set your current	address:	End
Zagreb		Address must not be empty
Cancel	Ok	
Schu	атапт	Send alarm

5:26

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4.2.3 Updating password

After pressing "Change password" button new dialog is shown where user needs to enter his new password. As with location, the field is mandatory and error message will be shown if the field is left empty.

	³⁶ / 🚺 5:27		^{3G} / 15:27
🚾 E - Health Ser	rvice	E - Health Service	
Change pass	sword		
Enter new pass	word:	Error	
727890		Password must not be em	pty
Cancel	Ok		
Sena	ататтт	Send alarm	

4.2.4 Adding measurement

After user clicks "Add measurement" button new dialog is shown where user needs to enter data for new measurement. User doesn't need to fill all the measurements, but if measurement that is mandatory is left empty, red mark will be shown next to mandatory field with error message. Confirmation dialog is shown after the user clicks "Send" button.

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36 <u>3</u>	5:30 ³⁶ / 15:30
👾 E - Health Service	🙅 E - Health Service
Blood pressure:	Blood pressure:
/	
Sugar:	Sugari _{Mandatory}
Heart rate:	Heart rate:
Respiratory rate:	Respiratory rate:
Saturation:	Saturation:
Temperature:	Temperature:
Send	Send

4.2.5 Send Alarm

After pressing "Send alarm" button confirmation dialog is shown for the user. If user confirms the sending, progress dialog is shown notifying the user application is currently trying to get the user's location.

	³⁶ / 🚺 5:32
🔤 E - Health Ser	vice
	surement
Are you sure?	
No	Yes
Change p	bassword
Send	alarm

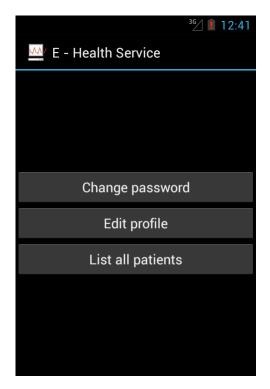
	^{3G} / 15:32
🔤 E - Health Service	
Add measurement	
Locating	
Change password	
Send alarm	

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4.3 Doctor

4.3.1 Main screen

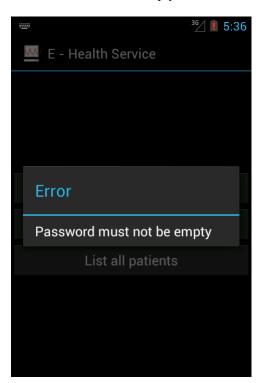
User logged in as a doctor has 3 main functionalities he can access from the main page: changing his password which works same as for the patient, editing his profile information and listing all his patients.



4.3.2 Change password

After pressing "Change password" button new dialog is shown where user needs to enter his new password. As with location, the field is mandatory and error message will be shown if the field is left empty.

	³⁶ / 15:36			
🙅 E - Health Ser	rvice			
Change pass	word			
Enter new password:				
1234				
Cancel	Ok			



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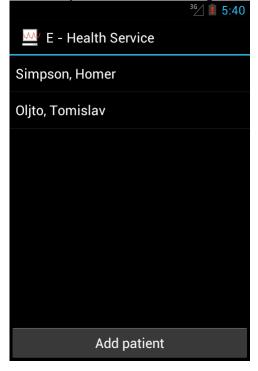
4.3.3 Edit profile

After clicking on "Edit profile" button, user is shown new dialog with all his current public information. User can change and confirm his input by clicking "Confirm" button. If mandatory fields are left empty, red mark with error message is shown on the dialog.

	³⁶ / 🔋 5:39		³⁶ / 📕 5:40
🚧 Edit data		👾 Edit data	
Gregory		Gregory	
House		Surname	•
tommy.t.emmanuel@gmail.	com	tommy.t.emmanue	Surname is required
09876543		09876543	, ,
<u>Vicodin</u> addicţ		<u>Vicodin</u> addict	
Confirm		Conf	irm

4.3.4 List patients

By pressing "List all patients" button, user is shown list of all his patients. By pressing the specific patient, patient details are shown. If he presses "Add patient" button, new dialog for creating new patient is shown.



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4.3.5 Add patient

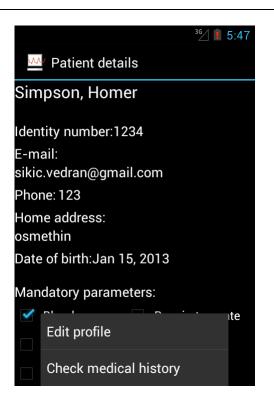
User needs to input information about new patients: name, surname, identity number, address, date of birth, phone number, email address and parameters that are mandatory for that specific patient. E-mail address needs to be unique, not already used address, since it is used as a username in the system. After creating the patient, patient will receive an email with his randomly generated password.

	^{3G} / 🔋 5:45
Create patient	
Identity number	
Name	
Surname	
Home address	
Date of birth	
email@address.com	
Phone	
Blood pressure	
Heart rate	
Confirm	

4.3.6 Patient details

After clicking the specific patient in the patient list, details for that patient are shown. If he presses menu button on the device, he has the option to edit patient profile or to view patient medical record info.

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4.3.7 Edit profile

On edit patient profile screen patient's current information is shown. Doctor can edit all patient's info, but if he leaves a field empty error mark is shown.

³⁶ ∕ 1 5:48		³6∕/ ∎ 5:50
🙅 E - Health Service	👾 E - Health	Service
1234	1234	
Homer	Homer	
Simpson	Simpson	
<u>osmethin</u>	Home address	•
Jan 15, 2013	Jan 15, 2013	Home address is required
sikic.vedran@gmail.com	sikic.vedran@g	gmail.com
123	123	
Blood pressure	Slood pressu	ıre
Heart rate	🗹 Heart rate	
Confirm		Confirm

4.3.8 Medical history details

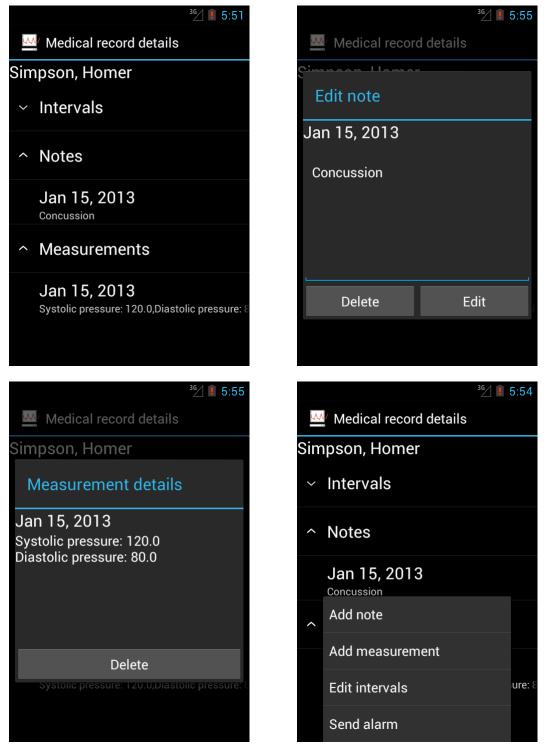
By clicking "Medical history" menu button in patient details view doctor can view all the patient medical history info. Info is divided in 3 expandable lists: Intervals - showing allowed medical intervals for the patients, medical notes showing the patient notes, and measurements, showing patients vital parameter measurements. By clicking each list, list expands and shows the full list info.

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By clicking specific medical note, new dialog with option to edit or delete note is shown.

By clicking specific measurement, option to delete the measurement is shown.

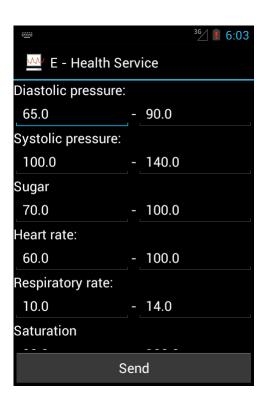
By clicking the menu button menu is shown with option to edit patient intervals, add new note or measurement, or send alarm



4.3.9 Edit intervals

User is shown new dialog showing all current values for the intervals. After user edits the values, he can press "Send" to save the new values. If user leaves the value empty, the default system value will be saved.

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4.3.10 Add note

After user presses "Add note" menu button, new dialog to enter the note is shown. If the note text is left empty, error message is shown.

³6∕	³⁶ / 16:08
Medical record details	Medical record details
Simpson, Homer	Simpson, Homer
Create new note	Create new note
Note text	Note text
	Error
	Note text must not be empty.
ı	
Confirm	Confirm

4.3.11 Add measurement

After user clicks "Add measurement" menu button new dialog is shown where user needs to enter data for new measurement. User doesn't need to fill all the measurements, but if measurement that is mandatory is left empty, red mark will be shown next to mandatory field with error message. Confirmation dialog is shown after the user clicks "Send" button.

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³⁶ ∕ ∎ 52	30 ³⁶ ∕ 1 5:30
👾 E - Health Service	E - Health Service
Blood pressure:	Blood pressure:
/	
Sugar:	Suga Mandatory
Heart rate:	Heart rate:
Respiratory rate:	Respiratory rate:
Saturation:	Saturation:
Temperature:	Temperature:
Send	Send

4.3.12 Send alarm

After user clicks "Send alarm" button new dialog is shown showing list of alarm levels and input field for the diagnosis for the patient. Diagnosis is mandatory field, so if the user leaves the field empty error message is shown.

	³G⁄/ 🔋 6:11
👾 Create alarm	
R1	
Diagnosis	
Confirm	

³⁵⁄ 🖠 6:10 ₩/ Create alarm
G1
Diagnosis
Error
Diagnosis must not be empty.
Confirm

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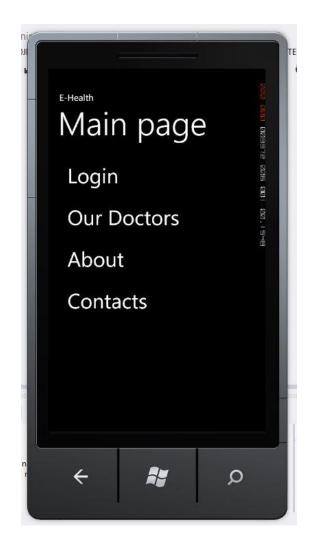
5. Windows Phone Application

The E-Health Service Windows phone application can be used by two different users. The functionalities are listed based on the user type. Before starting with user types below there is the start page of the application.

5.1 Unregistered user

5.1.1 Main page

This is the main page of the application. The unregistered user can chose to log in, to see all the doctors, read about the application and see the contact information.



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5.1.2 Our Doctors

On this view all doctors are displayed. By clicking on a doctor the doctors public information will be displayed.



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5.1.3 Doctor Public Information

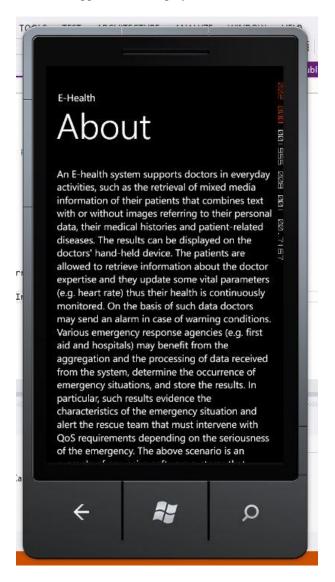
On this page the public information is displayed. The name, surname, email and the doctors description is displayed.



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5.1.4 About

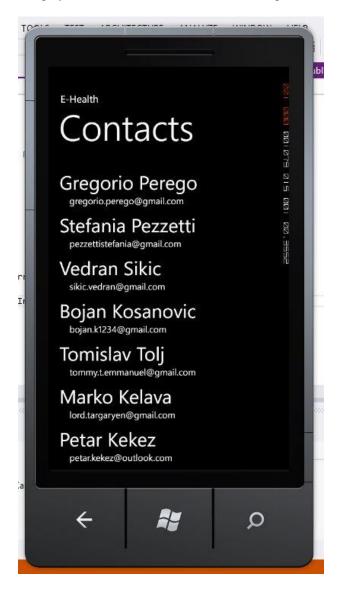
On this page the information about the application is displayed.



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5.1.5 Contacts

On this page the contacts are displayed. The names and emails of the development team and the mentor.



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5.2 Login

On this page the users log in to the application. The user needs to input his/her user information and click on the button to get logged in the application. If an error happens a message will be displayed of the error.

				ıbl
	E-Health			
-	Logi	n	221 4000 881576 886 881 881.4214	
	Username		aa Zae	
	Password		- pp	
ri It			Login	
**				
a	÷	A 7	۵	

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5.3 Patient

5.3.1 Patient Main Page

After the patient logs in the application he/she will be routed to this view. The patient can see his/her information, send an alarm by pressing the exclamation mark. To open the menu the user needs to click on the "…" button.



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5.3.2 Change Password

To change a patient password. The new and old passwords have to be inputted. In case of an error a message will be displayed. To change the password the user need to press the check button.

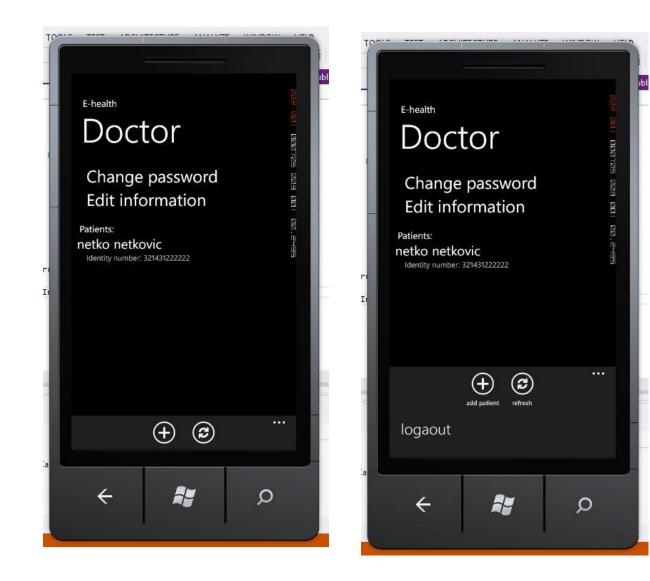
E health Chan	ge p	ass	dia <mark>Bible Base</mark>
Old password			100 001152 004 001 00.3354
New password New password retype			00.335H
	\odot		

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5.4 Doctor

5.4.1 Doctor Main Page

After the doctor logs in the application he/she will be routed to this view. The doctor can see his/her patients, change the password, edit information, add a patient and see the patient's details. To open the menu the user needs to click on the "..." button. To add a patient the doctor needs to press the "+" button. To refresh the patient list the doctor needs to press the refresh button.



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5.4.2 Change password

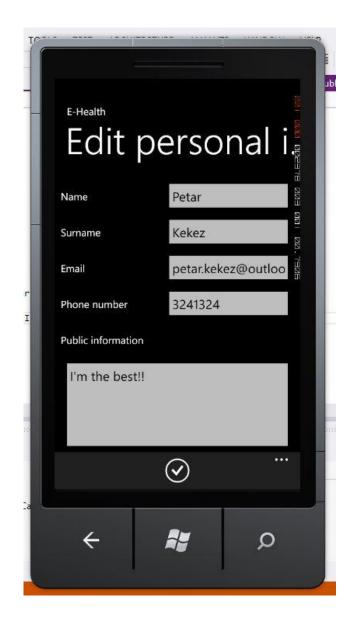
To change a patient password. The new and old passwords have to be inputted. In case of an error a message will be displayed. To change the password the user need to press the check button.

TOP	_			Ib
	E-Health Passv	vord	1996 - 200 - 100 - 100 - 100 - 200	
	Old password			
	New password		21 I D	
	New password retype		7. 3954	
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5.4.3 Edit information

The doctor can edit his information on this view. All the fields have to be filled before the information can be edited. After editing the doctor saves the data by pressing the check button at the bottom. If an error happens during the save a message will be displayed.



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5.4.4 Register a new patient

On this view the doctor adds a new patient. All the information has to be filled and it has to be filled correctly to add a new patient. After all the data has been inputted the data is submitted by pressing the "+" button. If an error happens during the save a message will be displayed.

	E-Health Add p	atier	nt m	du
	Name:			
	Surname:		9657, 201 100 PDZ	
	Email:		1. 7036	
r I	Home address:			ı.
	Phone number:			
	Identity number:			
-	Birth date:	dd/mm/	уууу	
	Mandatorv paramete	÷		
2a	÷	#	Q	

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5.4.5 Doctors patient

On this view the doctor can view the patient's information. The data can be changed and saved by pressing the check button. To open the menu the user needs to click on the "…" button. If an error happens during the save a message will be displayed.

E-health Pat	ient		E-health Patient	
Name Surname Email	netko netkovic	i zie aai zz.	Name Netko Netkovic	a lota ziz is∈iota
r Home address I Last known address Phone number Identity number	petar.kekez@fer.hr ads ads 3241324 321431222222		medical notes new measurement vital parameters intervals	
Birth date	1/9/2013 ② ①		delete patient logout	