SOFTWARE USER MANUAL (UM)

MedFRS Device Diagnostic Software

Team 16

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VERSION HISTORY

Date	Author	Version	Changes made	Rationale
12/02/13	AAJ,NK	1.0	 Added expected information in each section 	To comply with Instructional ICM-Sw standard
12/04/13	NK, AAJ	1.1	Added Screenshots of the application	For draft TRR
12/03/13	AAJ	1.2	Updates	For TRR

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User Manual (UM)

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1. INTRODUCTION

1.1 SYSTEM OVERVIEW

The primary purpose of the MedFRS system is to save more lives by introducing the secure propagation of information during emergency situations. It allows authorized volunteers to record the data of victims they categorize and transmits and collates this information so that it can be used by the Supervisors to guide the EMTs and inform them of what to expect, thus saving critical time during the emergency response. The system generates lists of victim information and location.

1.2 SYSTEM REQUIREMENTS

1.2.1 HARDWARE REQUIREMENTS

- a. A laptop with internet access
- b. An iPhone with iOS 6 or higher

1.2.2 SOFTWARE REQUIREMENTS

Laptop -

a. Internet browser

iPhone –

a. MedFRS application

1.2.3 OTHER REQUIREMENTS

- BP cuff
- Wristbands representing different triage categories with barcodes printed on them.

2. INSTALLATION PROCEDURES

2.1 INITIALIZATION PROCEDURES

Download the MedFRS application from the app store and install the Application.

When the app runs for the first time, there will be a prompt to enter the One Time Pass(OTP) into the application. One Time pass will be given to the user in a separate mail on registering with the system. On entering the OTP, if the authentication is successful, then the application will be valid and henceforth no authentication or login mechanism is required

2.2 RE-INSTALLATION

If an App is reinstalled on the smartphone then the OTP can be reused again to authenticate, if the OTP has timed out then a new OTP can be requested by the user.

2.3 DE-INSTALLATION

Application can be uninstalled from the smartphone whenever necessary

3. OPERATIONAL PROCEDURES

- a. Login
 - 1. Go to the website and click "Sign In" from the top bar.
 - 2. Enter Username and Password and click Login

← → G ☆ Docalhost:3000/signin			\$
🚻 An 🚬 🔤 🖙 use www.usc.edu/bus-a 🗋 Airport Transportat	i 🔄 LA 🔄 Java 🚾 myUSC 💊 Los Angeles Public L 🗋 hw 🗋 SI 🗋 Stuff	🐞 iCloud 9 Goodreads Popular 😂 Jane Costello -	The
MedFRS		Home Help Sign in	
	Sign in		
	Email		
	abduljal@gmail.com		
	Password		
	Sign in		
	Want to join? Learn How		
MadEPS Project by Team 16		About Contact	
Hear to Project by Team 10		About Contact	

Figure 1 Sign In

Supervisor -

Maintenance Functions : Click Maintenance on Supervisor Homepage



Figure 2 Maintenance Page

- b. Add Supervisors/Transport Coordinators : Click Add Supervisors/Transport Coordinators
- c. Add Volunteers : Click Add Volunteers
- d. Add buildings : Click Add Buildings
- e. Add hubs : Click Add Hubs
 - i. Enter the required information
 - ii. Click enter
 - iii. If successful, success message is shown else why failure occurred is shown
- f. Manage all information : Click the corresponding Manage button
 - i. Enter the updated information
 - ii. Click enter
 - iii. If successful, success message is shown else why failure occurred is shown.

Emergency Functions : Click Emergency on Supervisor Homepage and choose the disaster



Figure 4 Disaster Homepage

- g. Track victims and print a sublist of sorted victims for EMTs: click Track victims
 - i. To sort click on the column to be sorted

ii. To get a sublist enter the narrowing criteria in the space provided

Transport Coordinator – Choose the disaster to get to TC Homepage

- h. Enter Victim Transportation information :
 - i. Click Enter Victim Transportation information
 - ii. Enter the data in the fields of the empty row in the table and click enter.
 - iii. If successful, success message is shown else why failure occurred is shown

Volunteer-

- i. Data Collection
 - i. Open the application
 - ii. Enter the location details and comments in the comment section and press next

iOS Simulator	- iPhone Retina (4-inch) / iOS 7.	0.3 (118508)
Carrier 🗢	7.43 PW	_
Scan	MedFRS	Add
		MedFRS
Allocated	l Building: THH	Base
		1
Floor Nur	nber	
Room Nur	mber	
Location C	omments	

Figure 5 Location Details

iii. Enter Respiration details by clicking on the relevant options and press next



Figure 6 RPM Details



Figure 7 Help Message

- iv. Enter Perfusion details by clicking on the relevant options and press next
- v. Enter Mental status of the victim and press next
- vi. Enter BP and Pulse of the Victim and press next

Carrier 🗢	Retina (4-inch) / iOS 7.0.3 3:57 PM	(118508)
Mental State	Vitals	Next
Pulse	70	
BP	150	
Vic	tim Condition	
DELAYED		

Figure 8 Vitals Page

vii. Scan the barcode using the barcode scanner or enter the barcode numbers manually



Figure 9 General Information

- j. Auxiliary details such as Name, age, sex can be entered as needed
- k. Once the above steps are completed on clicking next, the summary page is shown which will have all the options that have been selected previously. Any row can be modified.
- 1. Once the information is verified, press " Save" to save the data and upload it into the server.

Ceneral Sumr	nary Main	General Sur	imarv Mai
Bar Code Number	12345	Sex	Male Female
Name	Sam	Address	Los Angeles
Age	65 - 74	Breathing	Yes
Sex	Male Female	Perfusion	Yes
Address	Los Angeles	Mental State	Unstable
Breathing	Yes	BP	150
Perfusion	Yes	Pulse	70
Mental State	Unstable	Condition	Immediate
BP	150	Location comment: General Comment :	
Pulse	70		
Condition	Immediate		
Location comment: General Comment			
denoral comment.		Save	Treated



b) Scanning ID

1. Press "Scan" option present in the main screen

iOS Simulator - iPhon Carrier 🗢	e Retina (4-inch) / iOS 7 7:39 PM	.0.3 (118508)
MedFRS	Scan	Next
Bar Code Numb	Der 12345	
Scan Bar Code	Sc	an
	Search	
QWER	TYU	ΙΟΡ
ASDI	FGHJ	KL
φ Z X C	C V B N	

Figure 11 Barcode Search

- 2. Enter the barcode number or scan the bar code using the application
- 3. Press "Search", If a record is present its details will be shown in the next screen
- 4. If EMT personal has treated the victim then "Treated" option can be clicked and "save" button can be pressed to update the record.

4. TROUBLESHOOTING

4.1 FREQUENTLY ASKED QUESTIONS

Supervisor -

- 1. How do I see a subsection of victims?
 - a. Select the distinguishing features of victims you want to see in the search bar above the list of all victims
- 2. Is there a way for individuals to sign up online on their own?
 - a. No, for security purposes all sign ups must be handled by an existing supervisor of the system.

Volunteer –

- 3. Which smartphone supports MedFRS application?
 - a. Apple iPhone, iPad and iPod Touch having iOS 6 and above is supported
- 4. Should I register before downloading the Application?
 - a. Yes, without registering OTP will not be generated and the application cannot be authenticated
- 5. Which value should I enter if I don't know to diagnose the patient?
 - a. The value in "Red" is always preferred, if values are unknown
- 6. Will any information be stored in the smartphone?
 - a. If records are successfully submitted, then no data is stored, else it will be stored until the records are submitted successfully
- 7. Should I enter all the fields in the application?
 - a. Respiration, Perfusion and Mental Status details are mandatory, this is to establish the condition of the victim, all the other fields are optional

4.2 ERROR CODES AND MESSAGES

- 1. Invalid username/password: The username- password combination is not entered into our system. Either the information entered is not correct or the user has not been entered into the system and needs to go to a supervisor and sign up
- 2. Required fields are not entered: While inserting/ updating data all the required fields have not been filled. Populate them to continue.
- 3. Entries don't meet field format: While inserting/ updating data some fields have the wrong type of data. Populate them correctly to continue.
- 4. You are not authorized to access these pages: These pages are not viewable for your designation, if it's a faulty designation assignment, go to a supervisor to update your profile.
- 5. Authentication Unsuccessful: OTP authentication has failed
- 6. Unable to update record: This is when there is no network and the app has failed to upload the record to the server
- 7. Barcode Scan unsuccessful: This is when the barcode scanner fails to retrieve the barcode data successfully
- 8. Unable to get record: When the network is unable to retrieve the record from the server for the entered barcode

4.3 <u>Nоте</u>

OTP: One Time Pass EMT: Emergency Response Team User Manual (UM)