MEDICAL INFORMATION LOGGER FOR TRAVELLERS (MILIT’s)
Team 2 - Aniekeme & Dara

Final Presentation!
Introduction:

Reports show that several people die daily while travelling due to health challenges that can not be determined on time because the travelers medical history is unavailable.
ABOUT MILTs

MILTs is a medical checker device that records, stores and displays the intense medical records of a traveler.

It serve as a reminder device for traveler in case where they find themselves at different locations and need a quick access to their medical records.
We are using Saheed a traveler traveling by road to Taraba State from Lagos State Nigeria. He embarked on the 27-hour journey, boarding a bus from Lagos.

8 hours into the trip, he began to feel wheezy. He sneezed repeatedly and felt his chest tightening. He had shortness of breath. He stopped at a spot to get him a drink to feel better but slumped on the road and became unconscious.

Several people not being able to tell his medical history or record, began the usual thing; pouring water on him. However, this time that didn’t work out till an old man who happened to guess Saheed was asthmatic emptied an inhaler into his mouth. Saheed became well again.
# WORKPLAN For Case 3

**Medical Information Logger for Travellers (MILTs)**

{Deadline 28/June/2018}

<table>
<thead>
<tr>
<th>TASK</th>
<th>DETAILS</th>
<th>DEADLINE</th>
<th>RESPONSIBILITY</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STEPS/PROCESS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Howcharts</td>
<td>27/June/2018</td>
<td>Team</td>
<td></td>
<td>Done</td>
</tr>
<tr>
<td>Sketches</td>
<td>27/June/2018</td>
<td>Team</td>
<td></td>
<td>Still in progress</td>
</tr>
<tr>
<td>Breakout Presentation Slides</td>
<td>27/June/2018</td>
<td>Team</td>
<td></td>
<td>Each member had a part to play</td>
</tr>
<tr>
<td><strong>ASSEMBLY PARTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coding</td>
<td></td>
<td>Dara</td>
<td></td>
<td>Done</td>
</tr>
<tr>
<td>Installing parts</td>
<td></td>
<td>Dara</td>
<td></td>
<td>Assisted by Aniekeme</td>
</tr>
<tr>
<td><strong>TESTING</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On the broad board</td>
<td>27/June/2018</td>
<td>Team</td>
<td></td>
<td>Done</td>
</tr>
<tr>
<td>Transferred to wearable</td>
<td>27/June/2018</td>
<td>Team</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DOCUMENTATION</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project report</td>
<td>28/June/2018</td>
<td>Aniekeme</td>
<td></td>
<td>Prove read by Dara</td>
</tr>
<tr>
<td><strong>FINISHING</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjusting project and final prep</td>
<td>28/June/2018</td>
<td>Team</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PRESENTATION</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final presentation</td>
<td>28/June/2018</td>
<td>Team</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Start

Push yellow button to on device

Displays user info on LCD

Push right red button

Forward navigation of info. on LCD

Need to navigate back?

Yes

Push left red button

Back navigation of info. on LCD

No

User medical info store in SD
# include <Wire.h>

#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C led(0x0F, 14, 2);

// DS3231_Serial_Hard

Copyright (C)2014 Ready-On Electronics, Raanana, Israel. All rights reserved

// web: https://www.readyonelectronics.com/

// A quick demo of how to use my DS3231-library to:
// retrieve time- and date-data for you to manipulate.

// To use the hardware I2C (TWI) interface of the Arduino you must connect
// the pins as follows:

// Arduino Uno/2009:
// -----------------
18 // DS3231: SDA pin —> Arduino Analog 4 or the dedicated SDA pin
19 // SCL pin —> Arduino Analog 5 or the dedicated SCL pin
20 //
21 // Arduino Leonardo:
22 // -----------------
23 // DS3231: SDA pin —> Arduino Digital 2 or the dedicated SDA pin
24 // SCL pin —> Arduino Digital 3 or the dedicated SCL pin
25 //
26 // Arduino Mega:
27 // -----------------
28 // DS3231: SDA pin —> Arduino Digital 20 (SSA) or the dedicated SDA pin
29 //

Done uploading.

Sketch uses 4,774 bytes (15%) of program storage space. Maximum is 30,720 bytes.
Global variables use 504 bytes (17%) of dynamic memory, leaving 1,644 bytes for local variables. Maximum is 2,048 bytes.
Sketch:

- LCD layer - Navy material
- Sides - Antique
- First layer - Leather material (grip extra)
- Second layer - Card board (firmness)
- Third layer - Leather
- Lopping sides - Antique

Final Look Sketch
MEET MILTs

NAME: SAHEED A.O.
PD2: Asthma.
HOW IT WORKS

- Traveler’s medical data and emergency contact is stored in a memory card.
- The card is then inserted into the slot provided on the wearable.
- Once the device is turned on, details of the traveler rolls through the display screen.

- In an emergency situation, an alarm button is set so the traveler can alert the attention of any passerby.
- An emergency contact would be displayed too.
Future Improvement -


2. Pulse reader – to automatically detect unusual patterns in the user’s pulse.

3. GPS and SMS notification – help locate the nearest health centre and also send an emergency SMS message to the emergency contact.
THANKS FOR LISTENING