MATLAB CAHNGES

# Added a new folder – USB Connections

# Changes in the code

CL\_GUI

1. Define global variables to be used (line 595)

%%Empatica init

global empatica\_data;

empatica\_data = [];

1. Initialize the connection – line 90

%% USB Connect - start

'Press connect in Java program....'

global usb\_con;

usb\_con = connect\_java\_usb();

%assignin('base', 'usb\_con', usb\_con);

'Local connection established!'

1. Get CGM values – line 144

%DiAS GS entering

'Dexcom...'

global usb\_con;

global empatica\_data;

[table, gs\_new] = read\_last\_samples(usb\_con, 'dexcom');

gs\_new(2,5)

gs=[gs;str2double(gs\_new(2,5))];

'Received!'

1. Get Empatica values – line 224

%% Get Empatica data

'Empatica...'

global usb\_con;

global empatica\_data;

[table, empatica\_new] = read\_last\_samples(usb\_con, 'empatica');

if (size(empatica\_data)>0)

%Other samples - skip column names

empatica\_data = [empatica\_data;empatica\_new(2:end,:)];

else

%First sample - include columns names

empatica\_data = [empatica\_data;empatica\_new];

end

assignin('base', 'empatica', empatica\_data);

'Received!'

1. Send insulin information when verify is pressed – line 535

%Send USB insulin command

global usb\_con;

bolus\_insulin(1, kj)

basal\_insulin(kj)

send\_insulin\_command( usb\_con, num2str( bolus\_insulin(1,kj)), num2str(basal\_insulin(kj)));

%END OF USB OPERATION

1. Send hypo alert to the phone – line 1069

%Send USB hypo alert:

global usb\_con;

send\_hypo\_alert(usb\_con, num2str(0), 'CHECK\_MATLAB');

line 366

%Send USB hypo alert:

global usb\_con;

hypo\_alarm

send\_hypo\_alert(usb\_con, num2str(carb\_amount), 'EARLY');