

# Wearable Heart Rate Monitor

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CONTRIBUTION

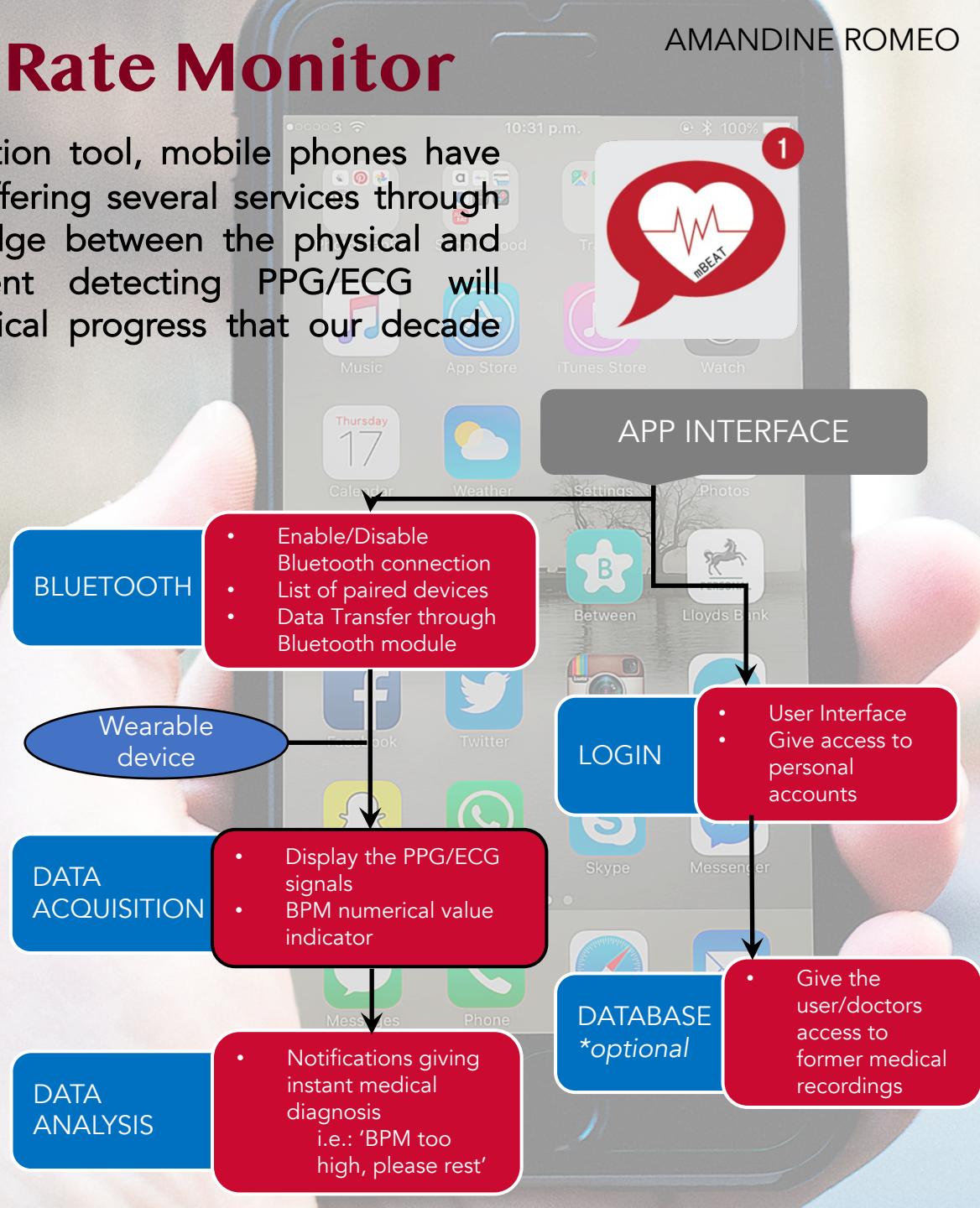
More than a simple communication tool, mobile phones have since become a digital device offering several services through app platforms. Building the bridge between the physical and virtual world, app development detecting PPG/ECG will participate in the constant medical progress that our decade experiences.

## OBJECTIVES

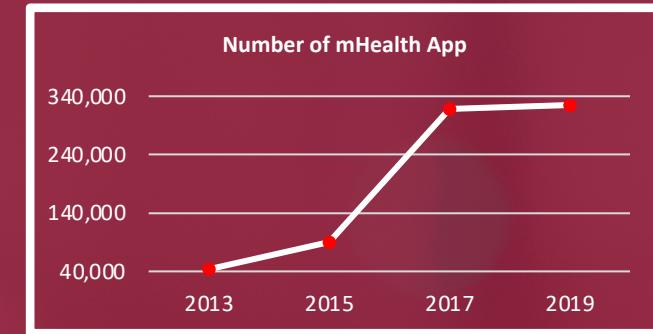
- Create an application able to display the PPG/ECG signal on a real time basis
- Data acquisition via Bluetooth connection between the app and a wearable device

## SYSTEMS AND SOFTWARE

- Android Studio  Javascript
- Arduino 
- MAX86150 sensor system
  - PPG / ECG sensor module



- The digital market has significantly transformed the healthcare industry
- Nowadays, out of 5 million mobile apps, 320,000 are computed to work with medical devices



## IMPACT

- Give the chance to 7.4 millions UK citizens to lead a normal life with cardiovascular diseases
- Reduce the yearly death toll of 170,000 due to late diagnosis

## Causes of Death in the UK

