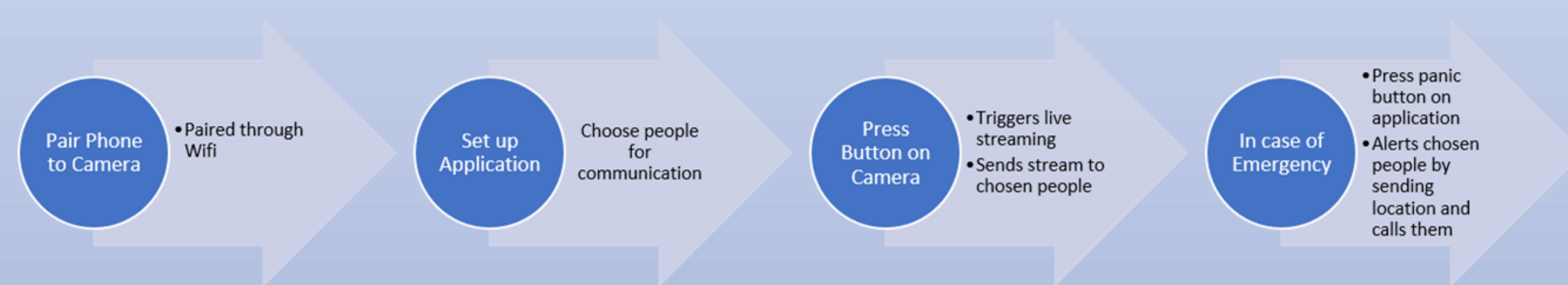
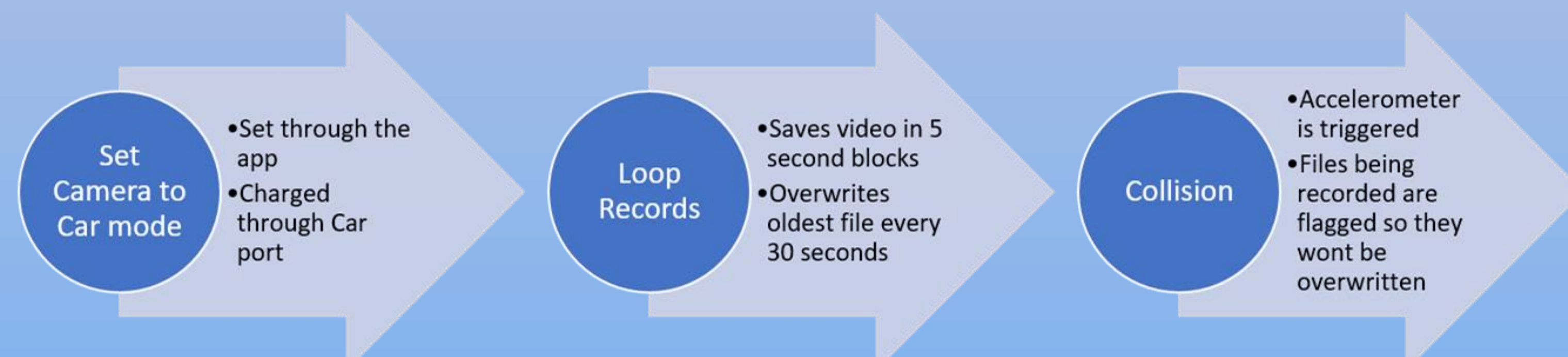


Background

Wearable Mode



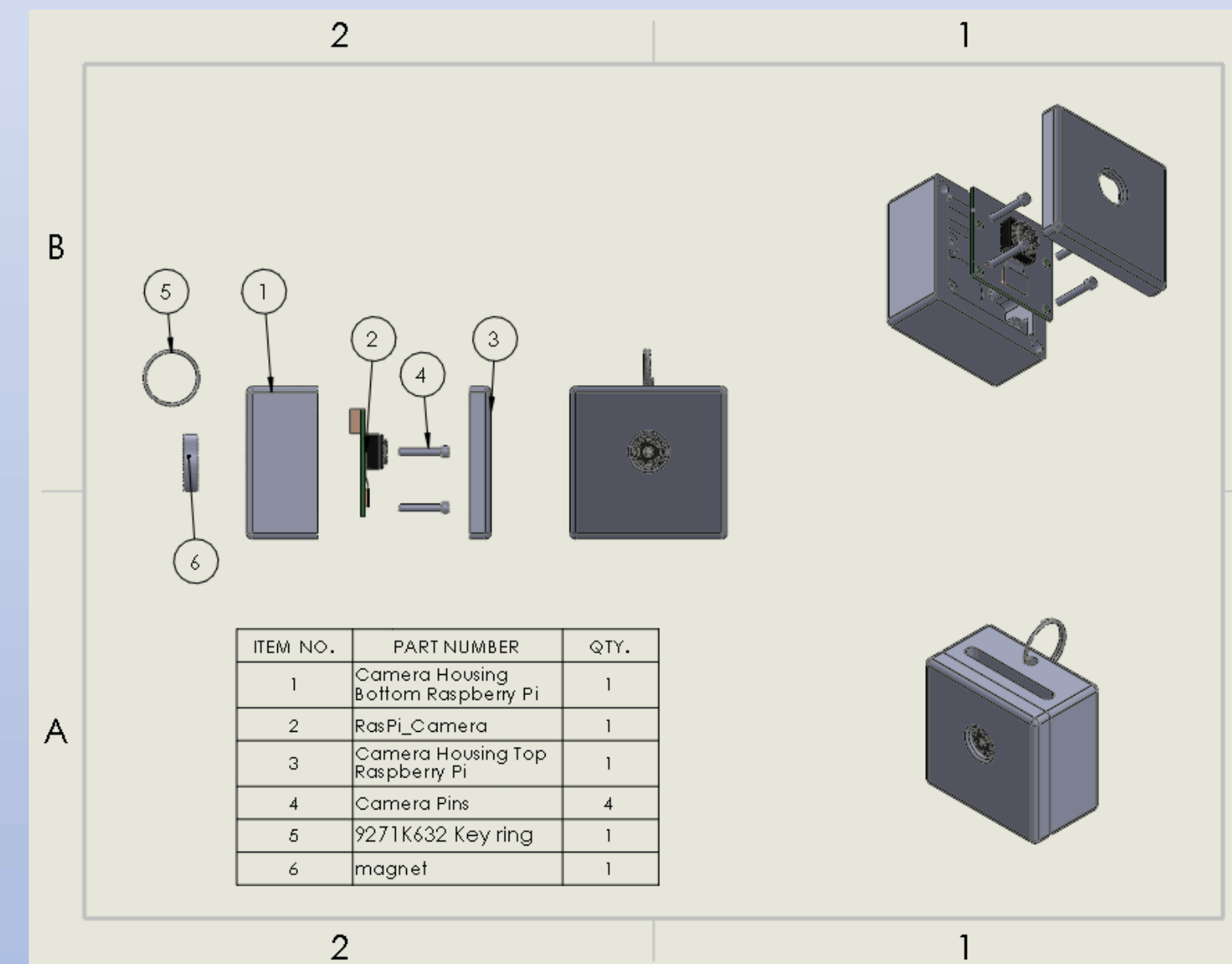
Car Mode



Overview

Carma's Cam1 will be able to capture a video stream as JPEG's that will be sent through wifi by the Raspberry Pi, to our server. Once it is received by our servers, it identifies the account that it is associated to the received stream. Then it sends the stream to the phone numbers that account chose, as well as their gps location.

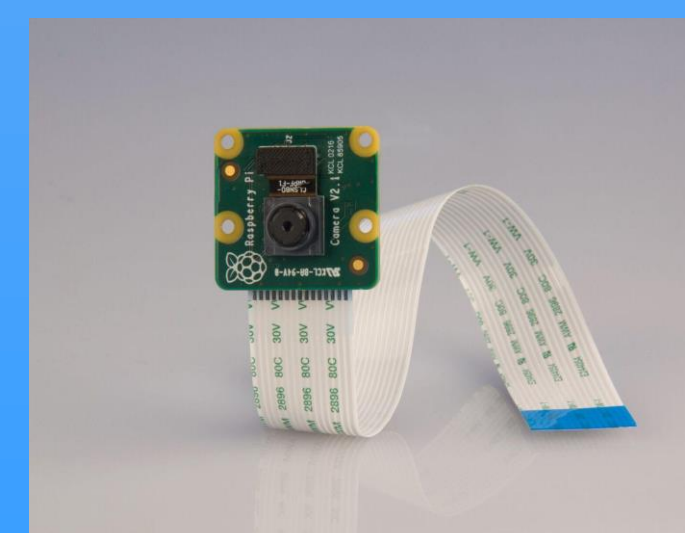
Carma Cam1 Overview



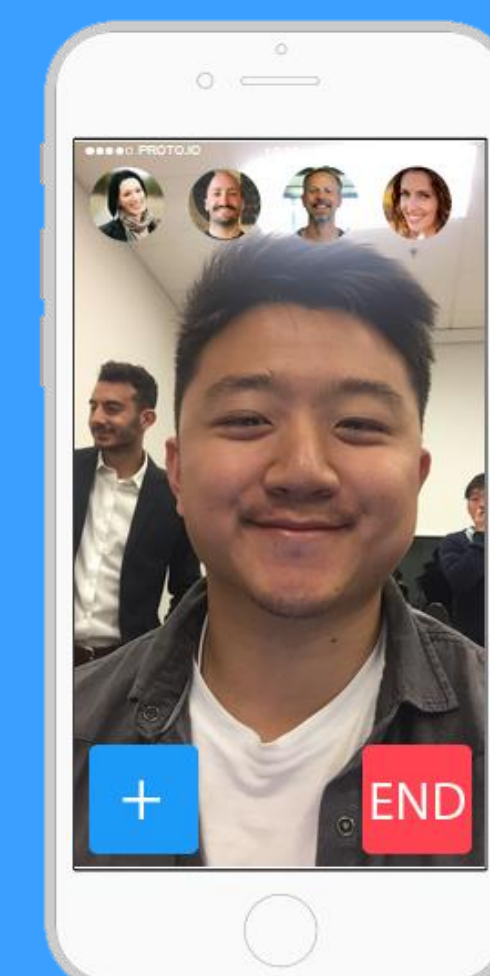
Hardware / Key Components



Raspberry Pi 3
Raspbian Jesse OS
802.11n Wireless Lan
Micro SD Card Slot

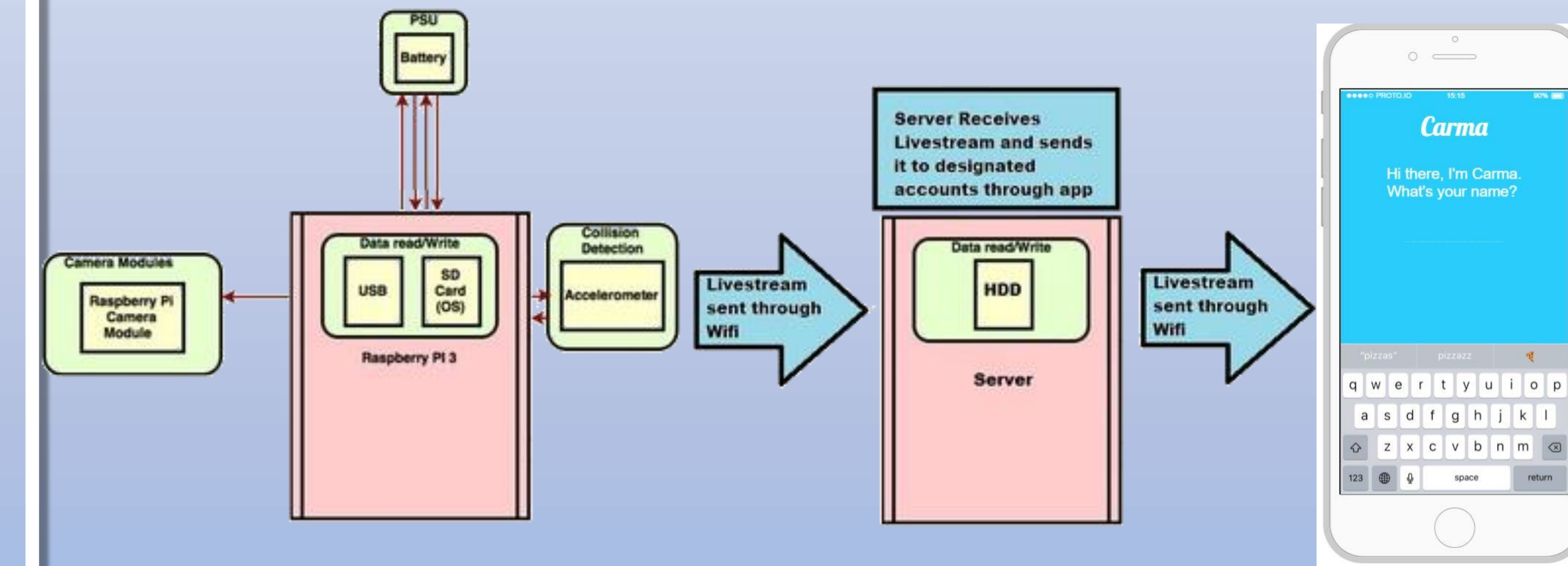


Camera Module V2
Capable of 1080p 30fps
Connected with Ribbonwire
Integration with pi via Picamera

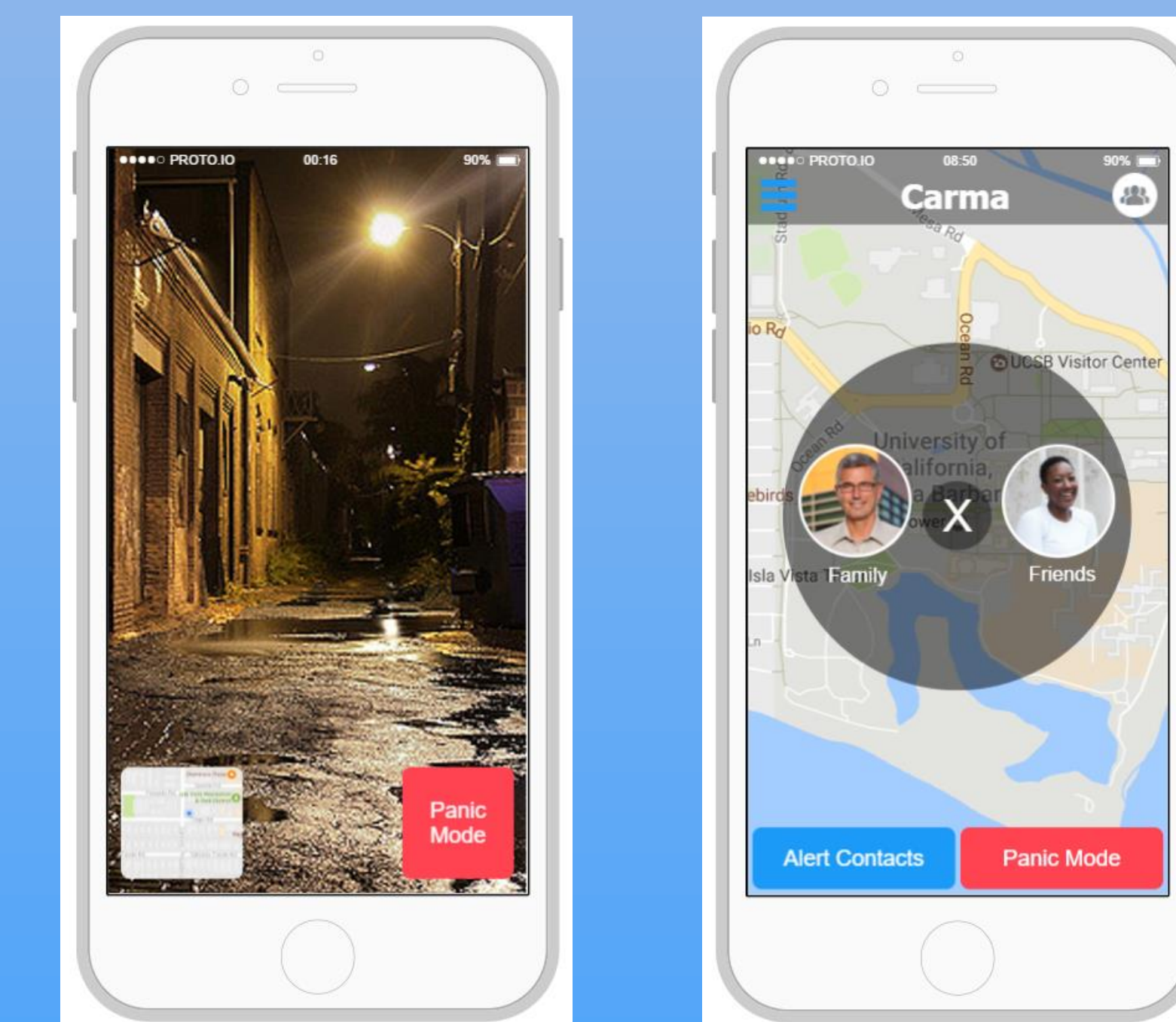


Apps
Connect to RTSP data stream, authenticate, and stream video in real-time.

System Block Diagram



Key Result



- Users send out signal of emergency
- Family and friends receive notification
- Livestream 720p video
- GPS
- Wifi
- Latency

Conclusion

We now understand the importance of finding product market fit prior to designing a product. Future iterations of this product would include creating a PCB to function with our current app. We learned that the costs and problems associated with creating a hardware product makes a hardware startup difficult. Thus, moving forward, the software team will focus on app development