Report Date: 04/29/22

To: include all managers (e.g., ematson@purdue.edu, ahsmith@purdue.edu, lhiday@purdue.edu and lee3450@purdue.edu)
From: BEST (Beacon-based Evacuation System and Technology)
Bacon Beacon

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Summary
We created a list of the equipment we would use and sent Professor Eric an email requesting to purchase everything. We also assigned a task individually. We were all content with our unique roles after that. And also concentrated on the paperwork. We looked up several articles on the internet and prepared a presentation about what we searched.

What "BEST" completed this week

- Assigned a job.
  - Hwawon Lee (Project Manager / Beacon Programming)
  - Yoonha Bahng (Writing the paper / Server Programming)
  - Dohyun Chung (iOS Programming)
  - Jiwon Lim (Android Programming)
  - Suhyun Park (Writing the paper / Android Programming)
  - Seongmin Kim (Server Programming / Beacon Programming)

- Determined the project name
  - BEST (Beacon-based Evacuation System and Technology)

- Made a list of equipment to buy
  - Raspberry Pi (Beacon & Fire Alarm)
  - Arduino & ESP32 (iBeacon)
  - Access Point (Control every device at same time)
  - Temperature Humidity Sensor (for Raspberry pi 2, 3)

- Prepare for the Mid presentation
  - Hwawon Lee started with the PPT

- Technical details
  - Instead of using DB, use CSV

- If it is not of the HTTP type, the rest of it will be implemented using a socket.
- Upload it to ec2 after testing. on the localhost.
- communication implementation (Yoonha Bahng, Dohyunn Chung, Seongmin Kim)

Things to do by next week

- Writing Abstract of Paper
- Writing Introduction of Paper – Looking for references.
- Individually organize the papers and allot the reference to teammates.
- Discus about our Novelty and researching related papers

Problems or challenges:

If you have multiple lists, use bullet points.

- Server problem
  - We thought about how we develop our server. There were two ways. One is we develop server using Raspberry Pi or computer, and the other one is purchase Amazon AWS. We had a problem with the Ip address and solved it with EC2.
- Beacon
  - First and foremost, we attempted to use the laptop as a beacon but were unsuccessful. We eventually worked out how to use the Raspberry Pi as a beacon, rectified the problem, and were able to connect to the Ibeacon successfully.

Reference

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