Sprint: 1

From: 04/08/2024 - 04/19/2024

Team: ERA: Emergency Response Assist

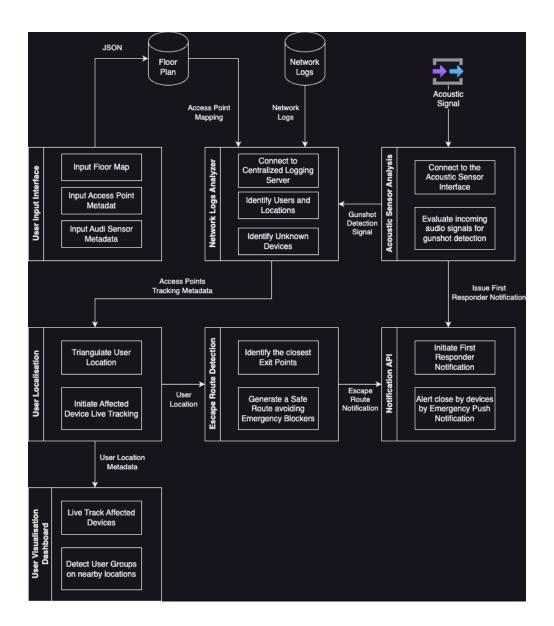
Team Member	Tickets	Points
Jatin Madan	2	8
Vaishnavi Sunil Desai	1	4
Isha Ghiria	1	2
Sharvesh Patki	1	4

Sprint Overview:

Planned		Completed		
Items	Points	Items	Points	
5	18	3	10	

Sprint Retrospective:

- What have you done during this sprint?
 - Jatin Madan
 - Jatin worked on finalizing the Architecture of the ERA system, identifying all 7 submodules that will be implemented to complete the functionality of the system.



- Jatin also worked on creating a simulation software that would generate Wi-Fi Access point logs to simulate a real-world User Traffic across a building plan.

```
Statution to generate a readon MC address

of interface, and officers

of process, and officers

officers, and officers

officers, and officers

officers, and officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers, and officers

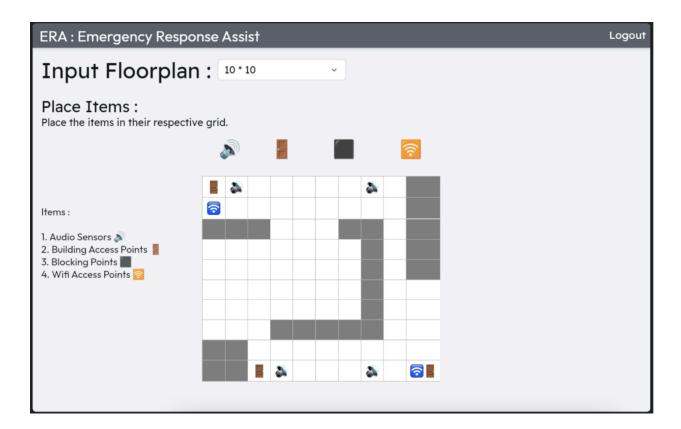
officers, and officers, and officers

officers, and officers, and officers

officers, and officers, and officers, and officers

officers, a
```

- Isha Ghiria
 - Isha worked on creating Mockups for the Front-End of the ERA System, Designing the User Input Page for the Floor Plan



- Vaishnavi Sunil Desai

 Vaishnavi Worked on Researching the algorithms to plan the escape routes for the users in an emergency, assessing the current floor situation, identifying all blockages and finding the shortest path to the nearest exit point.

- Sharvesh Patki

 Sharvesh worked on identifying and analyzing the Wi-Fi access point metrics and logs to identify the metrics that will be useful for the User Triangulation Algorithm to be utilized in the ERA system to approximate device locations.

Parameter	Description		
Device Status	Indicates if the client is successfully associated or failed to connect.		
Name	Specifies the user-defined name of the client.		
User Name	The username of the client.		
	Specifies the unique 48-bit IEEE format address of the client assigned to		
MAC Address	the network adapter by the manufacturer.		
IP Address	IP address of the client.		
os	Name of the operating system on the client.		
	Specifies the AP with which a client is associated. This is the AP through		
	which the client communicates with other clients and devices on the		
Associated Access Point	network.		
Associated SSID	Specifies the operating SSID of the AP with which the client is associated.		
	Displays the observed RSSI (Received Signal Strength Indicator) value for		
RSSI (dBm)	the client.		
	Displays the best RSSI (Received Signal Strength Indicator) value seen for		
Best RSSI (dBm)	the client.		
Uplink Data	Indicates the amount of data transferred by the client.		
Downlink Data	Indicates the amount of data received by the client.		
Avg. data rate	The average amount of data transferred.		
	Date and time since the client was connected or disconnected from Wi-Fi		
Connected / Disconnected Since	Cloud.		
First Detected At	Indicates the time and day when the client was first detected.		
Location	Location of the client.		
	Indicates whether the client is a sticky client. A sticky client is a client that		
	remains connected to an AP even though there is an AP with better signal		
Sticky	strength nearby.		
Tag	Additional info about the client.		
LEGEND	Description V		
LEGEND	Description Tunable parameters for log generation		
	Device Identifiers		
	Location Approximators		
	Additional Information		

What went well?

- The team was able to successfully adopt agile methodology and implement daily sprints and setup a JIRA board to track all the issues and progress on the project.
- The team successfully finalized the submodules required for the ERA system and created an Architectural Diagram for the same.
- The team was able to get access and analyze the Wi-Fi Access Point logs to identify all available metrics.

What didn't go well?

- Jatin Madan
 - Jatin had some issues identifying the necessary submodules and simplifying the ERA Architecture
- Vaishnavi Desai

- Vaishnavi struggled with implementing Pytorch ML Algorithms on her personal device, due to a CPU Architecture Difference and Portability not being supported at that moment.
- Team
 - As some of the team members were working in a different time zone, we had odd timings to match and work together.
- What could/should be improved during the next sprint?
 - Updating our JIRA Board more frequently and updating all the tasks we perform on a daily basis.

Sprint Backlog

ID	Туре	Owner	Title	Status	Estimate
1	User Story	Jatin Madan	Create a Simulation Software to generate Network Logs	In progress	4
2	User Story	Jatin Madan	Create an Architectural Diagram for ERA	Completed	4
3	User Story	Isha Ghiria	Create Mockups for Front-end UI	Completed	2
4	User Story	Sharvesh Patki	Research on Wifi Access Point Logs and Metrics	Completed	4
5	User Story	Vaishnavi Desai	Research on Escape Route Detection Algorithms	In progress	4