

# Take A Seat

And you'll get there on time!

**Problem:** Passenger congestion on specific platform areas often creates train delays.

**Our Project:** Using force sensors on each seat, “Take A Seat” presents data regarding available seats in each train car through screens, making the passenger distribution on the platform more uniform.

## Features:

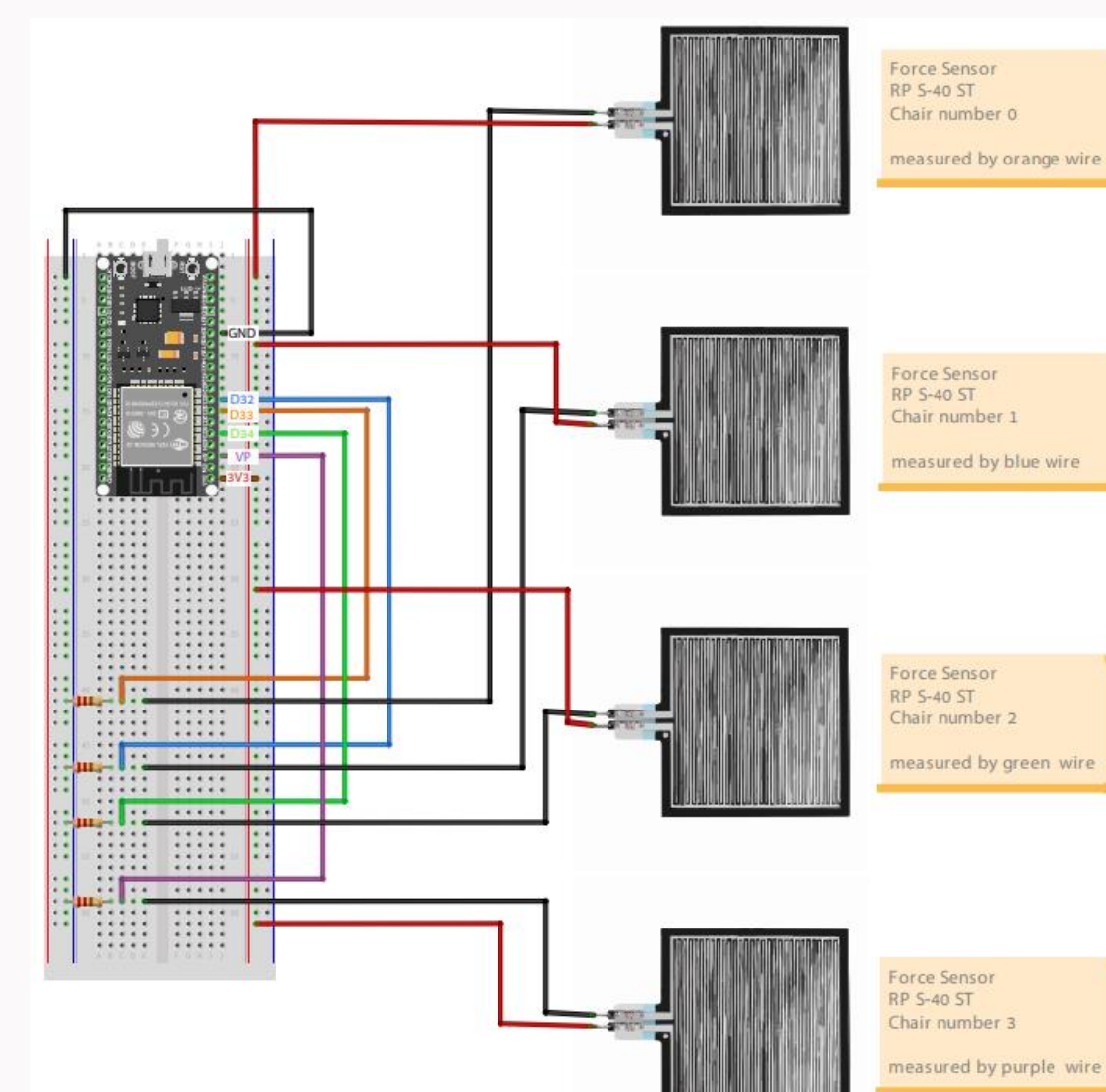
- Displaying the number and locations of available seats on each train car.
- Displaying the data by area to avoid congestion by the emptiest car.

In simulations conducted on trains with 7 cars and 100 seats per car, we achieved a time saving of 22min. during a 2:25hr. train ride of 17 stations.

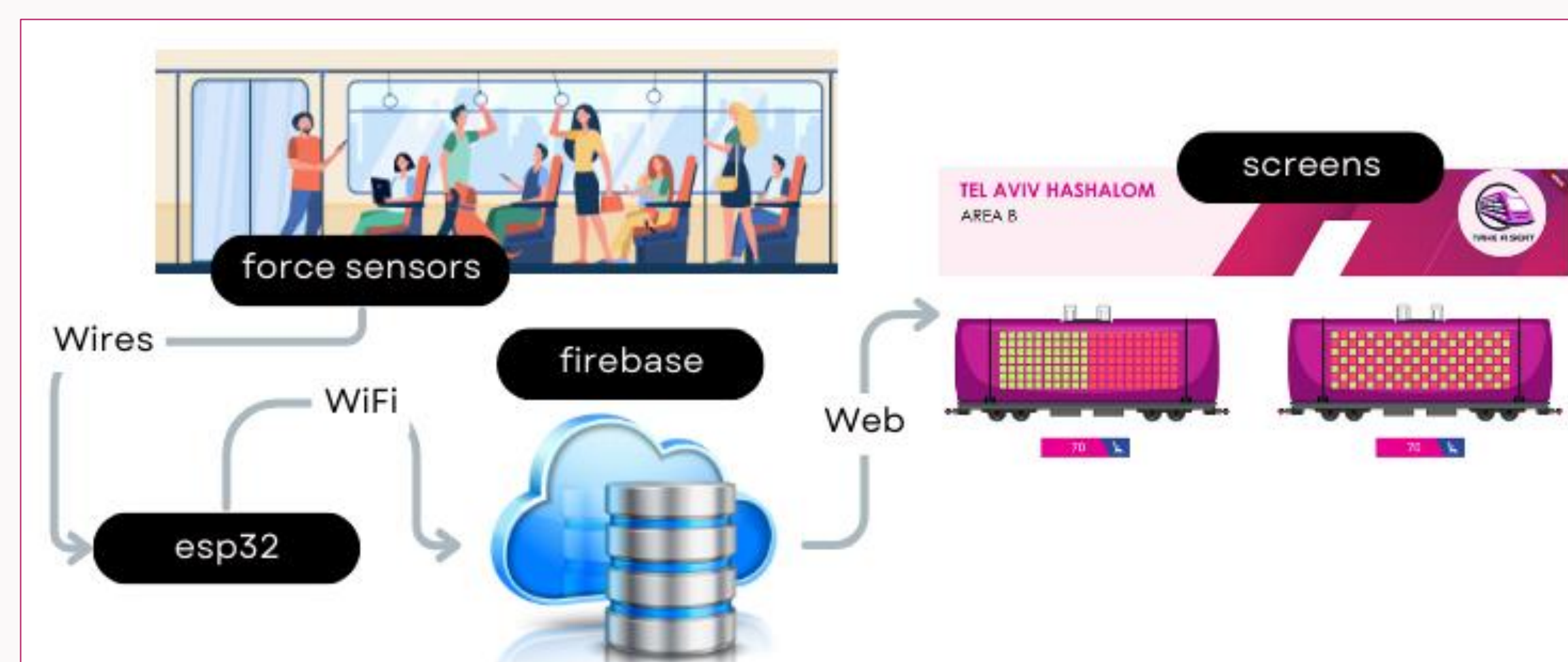
Screenshot of Area B's Screen



Wiring Diagram



System Diagram



Physical Prototype



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A Project in Internet of Things (IoT)