Airhead

Developed by TURAMS



Provides Estimated Wait Times

TSA lines

Restaurants/Shops

Bathroom

Detailed Walkthroughs for First Time Fliers

Boarding Pass

Bag Check

TSA

Improved Navigation

Verbal Navigation

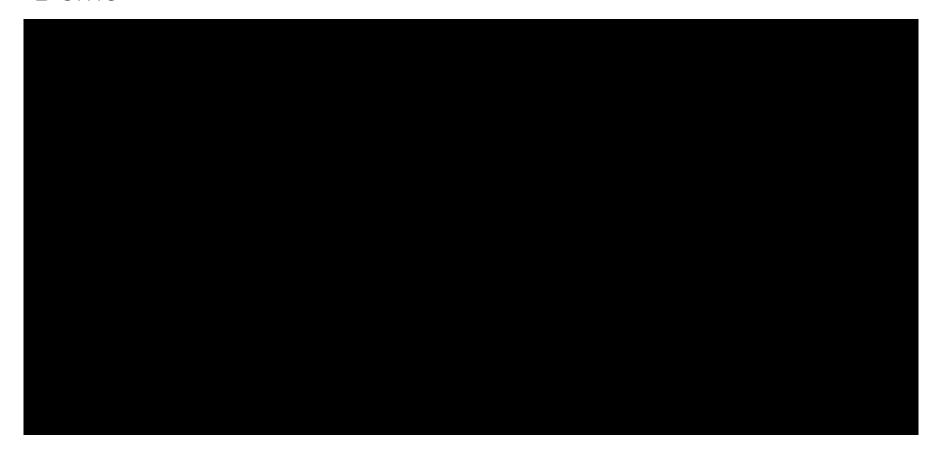
Visual AR Navigation

Accessible

Efficient

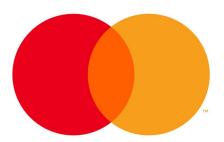
Convenient

Demo



Places API

Wait time data is modeled from the Places API by Mastercard. Places provides the location of merchants and relative distance from a certain location. We added an additional feature to calculate wait times from live transaction data at each location. Every transaction is stored in the database, and the frequency of these transactions (popularity) is used to model wait times at each location. We use both the location and popularity parameters to store wait time data in our system.



Communicate w/ a sensor to count people entering an establishment

```
public ResponseEntity<PagedPlaceInfo> getPlacesSearch(@RequestParam(value = "pageOffset", defaultValue = "0", required = false) int pa

@RequestParam(value = "pageLength", defaultValue = "20", required = false) int pa

@RequestParam("latitude") double latitude,

#@RequestParam("popularity") int numberOfPpl

@RequestParam("longitude") double longitude,

@RequestParam("distanceUnit") String distanceUnit,

@RequestParam("country") String country) {
```

Connecting the API to Airhead for restaurant wait time

```
placesInAirzport = {

"TSA": [{"name": "Gate A", "lane": 1, "estTime": 25},{"name": "Gate B", "lane": 2, "time": 34}],

#call Mastercard API to get traffic and frequency to estimate a wait time

"Restaurant":[{"type": "coffee", "name": "Starbucks", "location": "A4", "time": "45"},

{"type": "coffee", "name": "Dunkin Donuts", "location": "A7", "time": 3}],

"Bathroom":[{"name": "Bathroom 1", "estTime": 10, "location": "A"},{"name": "Bathroom 2", "estTime": 15,

"location": "B"}]

9
}
```