**Design an Elevator for someone who is blind**

Clarifying questions:

* Is it certain demographics that are focused?
  + SF and California
* Is it for commercial building or personal usage?
  + Commercial building
* Is it for completely blind vs partially blind users?
  + Consider both
* How tall the building is, or just focus on experience?
  + Focus on user experience.

Identifying the exacts set of users

* Blind people
* All other people as well
* Blind people should be able to experience the elevator when it is full of people.

User Journey

* Come inside the building
* Go to the elevator on their own
* Get onto the elevator seamlessly
* Get down of the elevator, without any problem.

Solution

* Camera located on top of the elevators.
* Calling the elevator, can be sensed by the user’s presence, and automatically elevator comes to the floor.
* Speakers on top the elevators, to go up as the elevator reaches the floor.
  + If two elevators come at the same time, we can have an audio signal whether you want to go up or go down, to guide the person.
* Additional AI capabilities
  + Let’s say a person does a job and goes up or down from the elevator at the same time, AI is used to recognize that and will suggest according to the person.
* Single button in the elevator, and if pressed x number of times, that is the floor the lift goes to.
* Speaker can also announce the name of the person entering the elevator.
* Problems in the current solution
  + A lot of people come at once on the elevator, and the blind person can pre book a spot and come to the elevator.
  + What happens in case of an emergency, we can have an announcement system in the elevator which makes announcement of the emergency.

Metrics for success

* Survey of how many people is using the elevator.
* Track what is the average wait time, for a blind person.
* Check which floor is the person going to.
* How can use the data to make the system more secure.

How is Privacy handled?

* Risks
  + Categorize age about the person and the gender.
  + Checking with user if they want to share the data.
  + If a person is not willing to share his data, do something like a selective recognition for the cameras.

Summary:

* Seamless experience for the blind persons
* Metrics to track that how many people are satisfied with the elevator.