

Name of the Project: Space Planner

Objective:

As the Covid-19 crisis has struck every economic business line, the Mexican government has published a contest for the design of a software-based solution to help out businesses to re-open while still accomplishing to follow the new normality guidelines and safe distancing rules. This solution should be able to provide a dynamic and easy-to-use solution for businesses to create schemes and plan the usage of their available space.

Description:

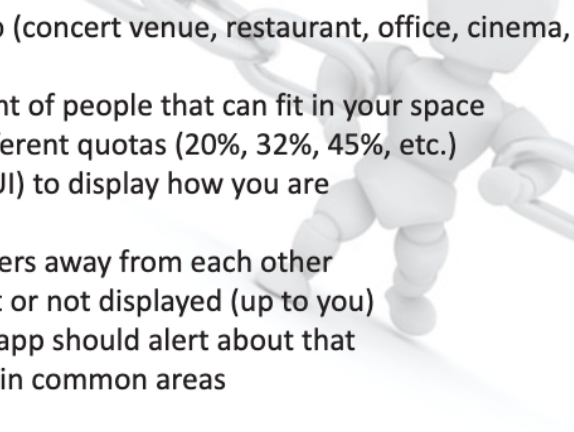
You and your team are a recently formed software development startup, eager to prove yourselves as great engineers and to have success in a very challenging industry. Your core values are teamwork, thinking outside the box, creativity, and agility.

Your startup has decided to enter the contest, to gain the opportunity to be known by government agencies as well as the business market, by providing a smart, top-notch product.

The guidelines for the contest establish that any product must take into account the following rules:

- The distance between each people must always be 1.5 meters at least.
- The tool must be able to consider the measurements of the furniture within the room in which its space will be schemed/planned. You can define the room and furniture measurements.
- The allowed capacity must also be able to be calculated by percentage (ex 10%, 30%, 50%).
- The maximum number of people per square meter must be taken into account for the planning.
- The required space for people for walking through the room must be also be taken into account for the scheme.
- Users must be able at all times to re-sort the space planning scheme according to new health and government indications whenever it applies.
- Crowd control must be enforced, by preventing new attendants or customers to enter the premises before there are the required released spaces for them.

Guidelines

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- You are free to select the theme of your app (concert venue, restaurant, office, cinema, etc.)
 - You will define the measures and the amount of people that can fit in your space
 - Your app must be dynamic and adapt to different quotas (20%, 32%, 45%, etc.)
 - Your app must have a graphic component (UI) to display how you are distributing/assigning the space
 - Seats/tables/desks must be at least 1.5 meters away from each other
 - Unavailable spaces can be either greyed out or not displayed (up to you)
 - If a certain quota cannot be achieved, your app should alert about that
 - Think in terms of inclusion and accessibility in common areas
 - Login and reservation are bonus features