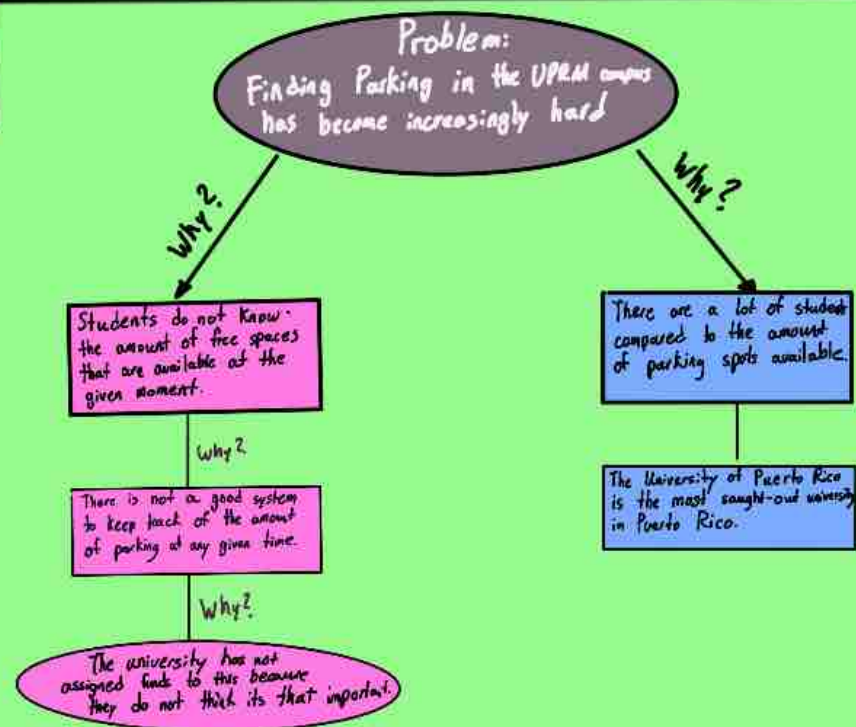| Topic: Parking at the UPRM Campus | Authors: | Date: 8/29/2022 |

1. Problem Background

- A large amount of students are having trouble finding parking at the UPRM campus. Due to this, students are arriving late to their classes.
- Since there isn't much parking, students have been parking in illegal places, in the middle of the road causing traffic or nowhere since they won't risk a fine.

2. Target

The goal to be reached by November XX, 2022 is to create a website which will allow users to create an account in order to see how many parking spots does the UPRM parking lots currently have available. Additionally, a "ticket booth" will be used on campus to count the cars as they enter or leave a parking lot so that the data would be presented on the online application

3. Causes

Problem: Finding Parking in the UPRM campus has become increasingly hard

Why? → Students do not know the amount of free spaces that are available at the given moment.

Why? → There is not a good system to keep track of the amount of parking at any given time.

Why? → The university has not assigned funds to this because they do not think its that important.

Why? → There are a lot of students compared to the amount of parking spots available.

→ The University of Puerto Rico is the most sought-out university in Puerto Rico.

4. Countermeasures

1) Make sure to count the exact count of parking spots so it is 100% accurate on the website
2) Ensure that the user is a UPRM student when they try to access the website
3) Have 1 entry point & 1 exit point to ensure that the tickets are given and recieved

5. Check/Evaluate

- The projects success will be determined by the user feedback and if students are able to find and park quickly.
- Project failure is denoted by a lack of availability of the parking spots & if the students do not arrive to their classes early since they couldn't find one fast enough.
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6. Act/Standarize

- Make sure that the website has an accurate amount at all times if possible
- Ensure the ticket system does not jam to ensure accurate entry and exit counts