Issues with original seating algorithm

1. There is no account for safety. For example, a child might end up seated in the emergency exit.
2. No priority for Passengers with disability to purchase their tickets
3. No priority for family to be seated together…especially families traveling with small children or family members with special needs
4. This system is totally about profit without any considerations to human being circumstances

Suggested Equitable Algorithm

- All passengers should have the option to select seating based on availability at the time they book
- Exit rows should be blocked unless age requirement met
- Option to block out an entire row (extra cost)
- Extra space seating (extra cost)
- Economy seating based on time of booking (closer to travel date more $$)
- Extra space seating reserved for passengers with disabilities based on question prompts (no additional cost…must show verification at check in)

Plane Seating Discussion 10/27/2022

5. There is no account for safety. For example a child might end up seated at emergency exit
6. No priority for Passengers with disability to purchase their tickets later
7. No priority for family to be seated together. one family member might need an assistance and it is important to be get assistance
8. This system is totally about profit without any considerations to human being circumstances

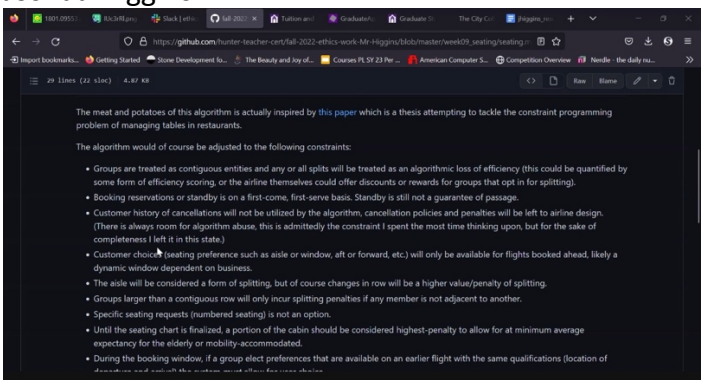
Notes:

- Creates a plane (a list of lists, each representing a row)
- Allows economy plus customers to choose a seat
- Allows customers to purchase economy seats (unassigned) as long as seats are available
- When there is <1 seat left it stops selling tickets and assigns remaining seats to economy customers randomly
- includes a "to string" type function that makes a print-friendly representation of the plane

- The program is looping through to see which seats are taken and which seats are still available for purchased.
- Allow people who purchased the economy plus ticket to see what seats they can choose.

Room Discussions 11/03/2022:

Joshua Higgins



Alise Braick