Criteria E

Test Plan Evaluation:

Criterions	Idea	Success	Client Feedback
			(Appendix 1.4 [3])
1.1	Main Menu	Success. A simple, functional Main Menu was created that directs to the main functions of the program.	The client mentioned that he like the simplistic design of the Main Menu window. It was self-explanatory and simple enough to use.
1.2	Reusability of Windows and Menus	Outstanding success. sub- windows for the functions can be opened and reopened for use. Individual windows can also be reused for different parameters without lag.	The client expressed approval for the reusability of the window. He talked about how it makes the app more efficient, without having to reopen the app for multiple entries.
2.1/1.3	Window for Seating Optimization	Success. There is a simple window for the entry of parameters, and a button for the generation of the seating distribution.	The Client again commented on the simplicity of the windows: it makes navigation really easy. Nevertheless, he mentioned that if this were to be publicized, it should be more sophisticated.
2.2	Parameters and Implementation of Seating Optimization	Outstanding Success. The parameter is successfully used by the program to produce a legitimate seating distribution. The algorithm follows the structure proposed in Criteria B.	The Client explained that even though he doesn't understand the algorithm behind the process, he can see through the results that it is effective.
3.1/1.3	Window for Boarding Method	Success. There is a simple window for the entry of parameters, QS and a button for the generation of the seating distribution.	(Common to 2.1) The Client again commented on the simplicity of the windows: it makes navigation really easy. Nevertheless, he mentioned that if this were

			to be publicized, it should be more sophisticated.
3.2	Parameters and	Success. The comparison is	The client commented that
	Implementation	successfully conducted in	the simulation, by the
	of Boarding	the background, and an	product of it, looks
	Method	optimal one is selected.	realistic. There were fast
	Comparison		and slow persons and the
			randomness/ realness of
			the simulation is
			emphasized.
4.1	Visualization for	Success. There is a color-	The client mentioned that
	Seating	coded diagram of the	he likes how the seating
	Optimization	seating distribution instead	situation were
		of a boring number matrix	distinguished by a color
		that serves as alternative.	scheme. However, he
			explained that if the
			program was to be
			extended to other
			platforms, the library for
			visualization will no longer
			work.
4.2	Visualization for	Outstanding success. The	The client thought that it
	Boarding	results of the simulation are	was ingenious to visualize
	Methods	shown with an animation of	the boarding order by a
		the boarding process in the	video.
		form of a video, an	
		innovative and effective	
		way of visualization.	
5	Error Handling	Success. The Product was	The client explained that in
		able to handle misinputs	the case when he forgot to
			enter values for parameters
			and enter absurd values for
			parameters, the program
			rejects the inputs to
			prevent the crashing. It
			prevents having to restart
			the app and improves user
			experience that way.

Functional Improvements:

After progressive discussions with the Mr. Chang, he provided the following recommendations to the product that that are now addressed (see appendix 1.4 [2]):

Window and	With the parameter entry windows for the algorithms, absurd values	
Algorithm	can lead to crashing of the program	
	Error checking method of limiting the range of acceptable parameters	
	was added.	
Visualization	Using a plotting function in PyCharm IDE is acceptable midst	
	development, but for the python application to function on actual	
	devices, there need to be an alternate method to visualizing	
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	development, but for the python application to function on actual	
	devices, there need to be an alternate method to visualizing	
Chatting	In the original design, there was a function to the program to how the	
Function	passengers could communicate through the app on a common server.	
	However, the function proved to be unnecessary, thus removed from	
	the program	

Extensibility

After a final discussion with the Mr. Chang, he provided the following recommendations to the future development of the product (see appendix 1.4 [3]):

GUI

The GUI presented in the product, though functional, isn't exactly well looking.

The sophistication of the GUI is crucial to the user's experience

Platform of Function

For more accessible use of the program, the python application could be integrated to function on mobile devices

Visualization

Using a plotting library is acceptable for PC usage, but for the python application to function on mobile devices, there need to be an alternate method.

Despite these recommendation, Mr. Chang reported that he was satisfied with the basic functionality of the program, that it is well designed to be implemented in the real world.

Word Count: 77