Erik Ayavaca-Tirado

10/22/18

CSC 450

Python project

Overview:

In this project the use of the python programming language will be used to simulate a simulation of Airport take off time. This program will keep track of information that is needed for airstrip scheduling such as request identifier, request submission time, time slot requested, length of time requested, actual start time, actual end time. This information will be read in by a file. A queue detailing the airplanes waiting before they can take off. A print out the status of

the queue as time moves along will be the output produced.

Design:

There is python class named flightSimulations.py that contains 4 different functions.

The first function reads in a file, specifically a .cvs file. A second function named printQueue holds the items from the read in file that will be used in a different function and it also does the printout the queue at each time. The third function simulate\_Airport simulates an actual airport, so adding/removing planes based on request time, this also functions as a priority queue. The last function named takeOffPrint prints out the queue at the end.