Taxi Rank Management System

You are requested to create a solution for travelers to be able to find taxis at taxi ranks when they arrive at a large international airport.

Need to demonstrate : Ability to understand requirements, OO design abilities, ability to improvise.

User Story

A large international airport has many taxi ranks around its premises. Some taxi ranks might be open in the morning, others at night time and possibly all will be open at peak times.

When a taxi arrives at a rank, they use an application on their mobile to enter the taxi rank id where they are located and whether they are free (accepting passengers), busy (have a customer and are waiting to leave/loading baggage/etc) or closed(off-duty).

When a traveler arrives at the airport they use their mobile or a kiosk to begin the request for a taxi. Once they begin the request, they might ask for a taxi that has specific attributes like seats for 8 people, large baggage handling, allow pets, etc. They are then issued a token and the number of the taxi rank that they are to go to. They might even be given directions in the form of a map (Remember, this is a large airport).

A central system matches travelers to taxis and taxi ranks and allows the admin to open and close ranks and to re-allocate travelers to different slots.

Deliverables

- o Functional Specification detailing your Technical Solution for the project
- o The skeleton of the project as well as interfaces and classes as per your Functional Specification
- o If you have created components that actually work, please include instructions as to how we can run the demonstration.

Do not get too concerned as to how much others have submitted for this solution or how much you need to do. You should do just enough so that you yourself feel comfortable that you are able to demonstrate that you understand the problem and that you have some idea as to how a solution will work and what technologies will be necessary to complete it.