

Cab Booking Problem

Problem Statement:

We want to build a cab booking platform to allow a rider to book a cab.

Details:

- * The location is represented as a (x, y) coordinate.
- * Distance between two points (x1, y1) and (x2, y2) is $\sqrt{(x1-x2)^2 + (y1-y2)^2}$
- * Platform has decided upon the maximum distance a driver has to travel to pickup a rider.
- * A cab has only 1 driver.
- * Sharing of cab is not allowed between riders
- * There is a single type of cab

Please build an application that exposes following features to riders and drivers.

- * Register a rider.
- * Register a driver/cab
- * Update a cab's location
- * A driver can switch on/off his availability
- * A rider can book a cab
- * Fetch history of all rides taken by a rider.
- * End the Trip

Expectation from this round

- * Code should be extensible.
- * Clean professional level code.
- * Functional Completeness including good modelling.
- * User Identification.

Pickle module in python and storing of data in file