Immagine che contiene logo

Descrizione generata automaticamente

Iqueue Project

UML Design

Software Engineering for Automation (2022-2023)

Immagine che contiene testo

Descrizione generata automaticamente

*UML Design* helps to create a class diagram of our Iqueue project. The goal of this section is to give a description of the main functionality of our app to ease the creation of the class diagram. The legend that we will follow to better characterize the UML is the same used during the exercise sessions, that is:

class

verb that hints to an attribute/attribute

operation (methods))

generalization

association/composition/aggregation

The main functionality of Iqueue app is:

Iqueue must be able to manage many users. A user can be of two types: a costumer or a shop owner. Considering a shop owner: he signs in in the application as shop owner with username and password. He will receive a shop owner ID. Iqueue allows, given the shop owner ID, to insert the name, the location, the time schedule, and the special offers of the shop. At the end of this process the Iqueue app will show, through the GPS system, the map with the shop name, location, time schedule and special offer. Considering a costumer: he signs in in the application by its username and password. He will receive a customer ID. Then the Iqueue app allows the costumer to select from a specific menu the category of shop he/she wants to visit. The categories can be: bakeries, hair saloon, perfumeries, clothes. Once the costumer has selected the typology of shop the Iqueue app will show the map with the location of the shops and the queue in front of each one. The client selects the specific shop where he/she wants to go and from another menu it selects the time slot in which he/she will arrive. After that a QR code will be generated for the costumer and at the same time a notification will be sent to the shop owner. Once the client arrives at the shop the shop owner will scan the QR code and the Iqueue app will remove the client from the queue of the shop.