REQ 1: edit customer information
An ambiguity if the card print happens for creation only or for updates to customer info triggers a print.

REQ 3c: 4-digit unique hexadecimal ID
An unsigned short (65535) or 4 digit hex meets the requirement but might be limiting later in the life cycle of the system by only having 65K total users.

add/editCustomer

Customer ID

Manager
-mgr_id
+addCustomer()
+editCustomer()
+updateVIP()
-printCustomerCard()

Customer
-cust_id : unsigned short
-name : string
-email : string
-vip_status : boolean
-running_bill
+requestLane()
+checkOut()

Scores Checkout

0..

Scores
-cust_id
-scores
-dates
+addScore(cust_id, score, date)
+listScores(cust_id) : scores

Billing Checkout

Bill
-payer_count
-laneCost
+getCCSwipes()

<<use>>
Lookup VIP Status

<<use>>
Collect Costs

<<use>>
printCard

<<use>>
Get Card Info

Lane Request

Lane Cost Algorithm
+getLaneCost(cust_id, timedate) : float

<<use>>
Players Checkout

<<utility>>
Card Printer
+printCard(cust_id)
+getCustomerInfo()

1..*

Players
-lane_requestor
-cust_ids[0..*]
-request_date_time
-lane_id
+reserveLane()

<<use>>
Scan Cards

<<utility>>
Video Camera
+scanQRcode()

<<utility>>
Credit Card Scanner
-name
-pcn
-expiration
-cvv

<<use>>
Swipe Credit Cards

<<use>>
Charge Card

Lane Reservation
1

Lanes
-lane_id
-status
+getLaneStatus(lane_id) : boolean
+setLaneStatus(lane_id, boolean) : void

<<utility>>
Credit Card Processor

Bowling Alley Manager Model
J. Michael McGarrah
GaTech CS 6300 SDP

Assignment 5
gtid: jmcgarrah6
J. Michael McGarrah