

PAYTOLLO

# Technological stack

- Netbeans
- Image processing
- Payment gateway(billdesk)
- R.F.ID card reader+G.S.M module
- Oracle(10g)
- Matlab(2013A)
- keilmicro vision
- JDK -8.0.1010.1

## **PAYTOLLO**

- ✓ In our system we are having prepaid-R.F.ID card with which we pay at the toll
- ✓ Here, customer registration is of two types,
  - 1.INDIVIDUAL VEHICLE OWNER
  - 2.COMMERTIAL VEHICLE OWNER

Firstly, customer need to register to the R.F.ID card in our PAYTOLLO

- ✓ Customer will be logged-in with the vehicle number and password
- ✓ If the customer is logging-in for the first-time then he will be redirected to the payment gateway to deposit safety amount RS200/- to get the card
- ✓ After that, transaction number is sent to the admin(paytollo) along with vehicle name

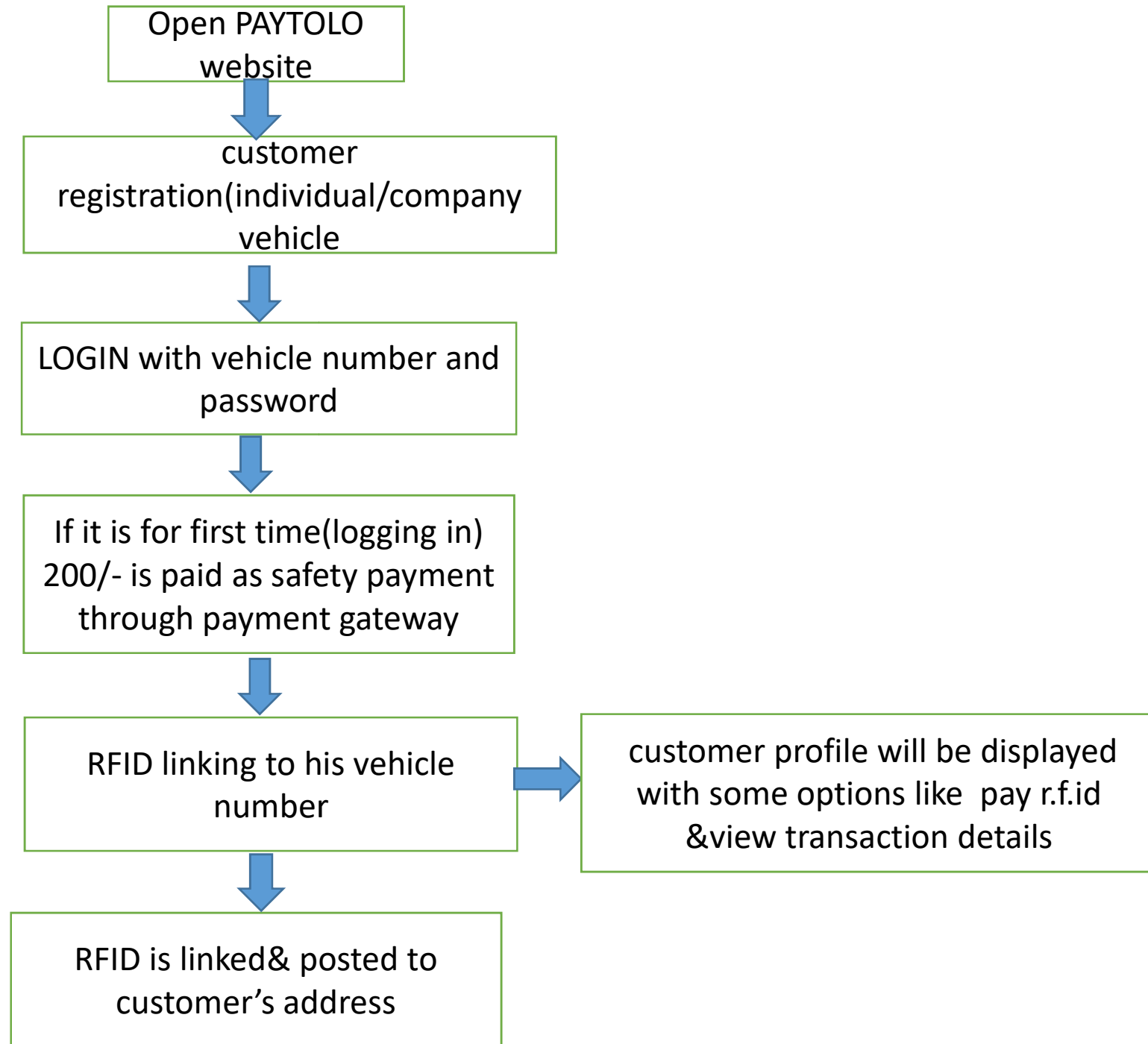
Then R.F.ID card is generated with name of the vehicle on it and R.F.ID number is attached it and if it is done then card is posted to the address specified by the customer

Before 1-2km of the toll-booth , R.F.ID reader will be kept along with G.S.M module to read the R.F.ID card and to acknowledge the customer that the money is going to be deducted from the account

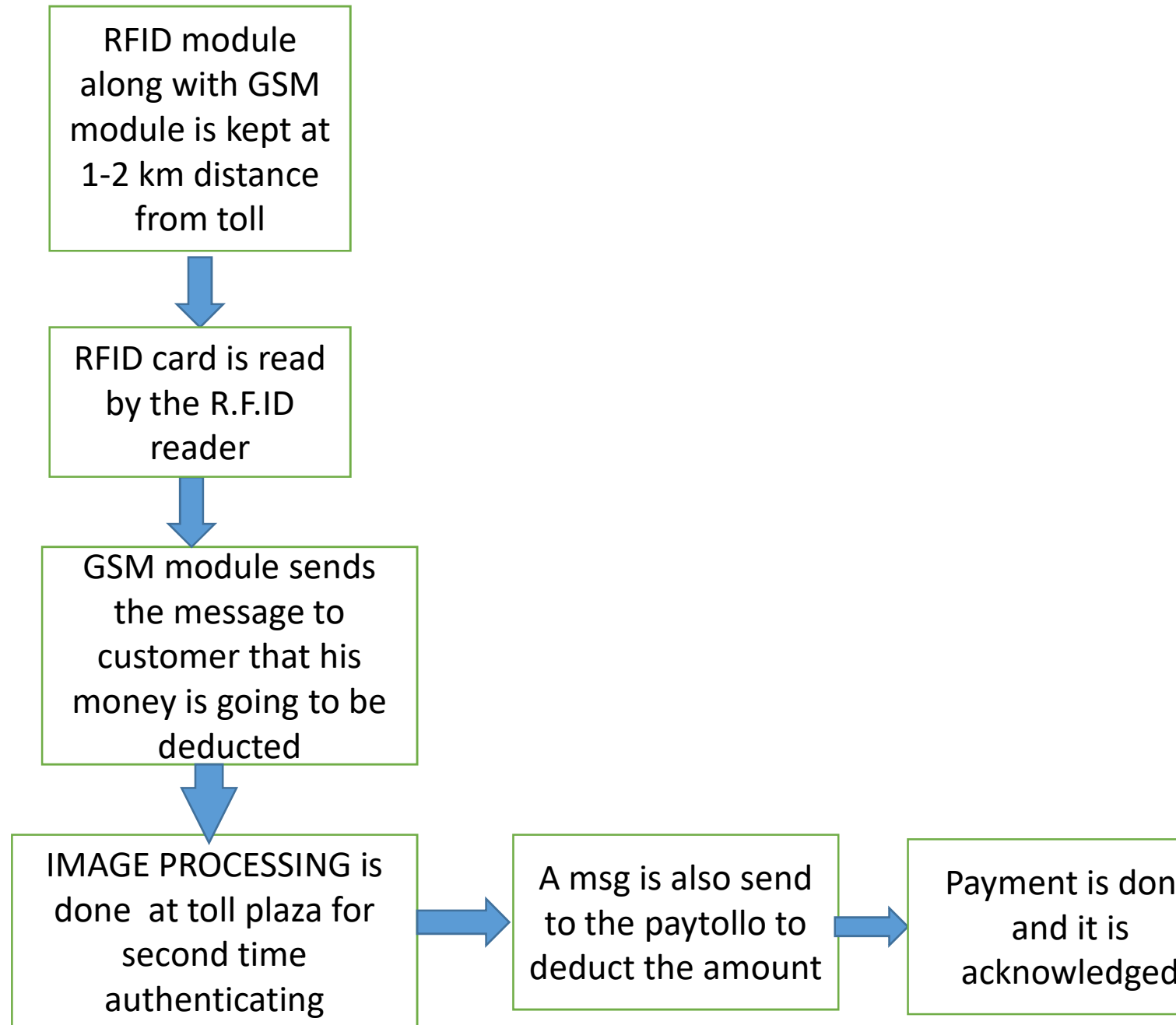
After customer enters the toll-booth,the vehicle-number on the vehicle is captured by camera and then image of vehicles are processed using IMAGE-PROCESSING technology

If the **vehicle number** on the VEHICLE and if the **vehicle name** readed on R.F.ID reader are same then acknowledgement is sent to paytollo to deduct the amount and automatically the vehicle will be allowed to pass without stopping

**ROLL FOR PREPAID R.F.ID**  
**RD:**



## READING R.F.ID AND SENDING MESSAGE



## **EXISTING SYSTEM(FASTAG)**

Customer should visit the POS location at toll plaza/ICICI bank sales officer to get the RFID card

While registration the customer need to take the vehicle to get the tag on the mirror

If the tag is lost ,then he has to re-issue at the pos location or at the icicibank

The sensors, should be kept at every lane which are cost effective and they should have lot of constraints like the light reflection and inclination should be in correct way

# PROPOSING SYSTEM :

**Ease of payment:** No need to carry cash for the toll transaction

**Online recharge:** Card can be recharged online through creditcard/debit card /NEFT/NETbanking

**SMS alerts** are sent for every toll transactions ,low amounts

**Online portal** for customer

If the card is lost then customer can block the card for himself in paytollo and re-issue to that

The R.F.ID reader with G.S.M module is cheaper than sensors