



# REAL TIME STUDENT ATTENDANCE & BUS TRACKING SYSTEM RFID BASED







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- 4 Process Flow
- 5 Dashboard/ Mobile App
- 6 Benefits
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## Student School Attendance

Both parents and school management needs to know that if the student has entered the school premises



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## Bus Stop/School Arrival Tracking

Parents wants to know when the bus is arriving and when will it reach the school with their children

## Real Time Updates

Parents asks for real time updates regarding the student attendance



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## Monitor Bus Movements

School Management can also track the bus and monitor their movements

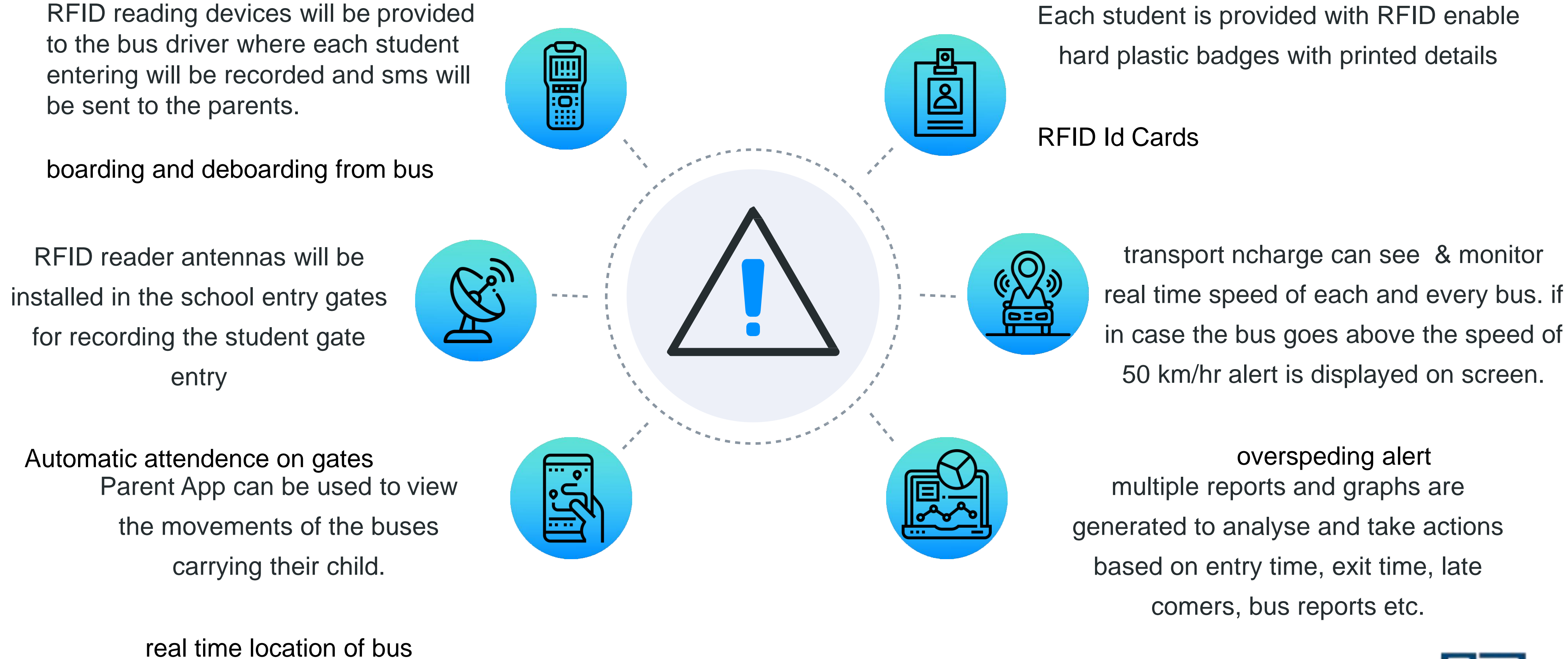


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## Real Time Student attendance & Bus tracking system (RFID-Based)



Real time student attendance will be marked **automatically** once he has entered the school using RFID Technology. Fixed RFID reader antennas will be used to scan the RFID enabled school badges for each incoming student. Real time sms will be sent to the respective parents once the student has entered the bus and school. The movement of buses will be tracked using GPS devices on the bus, which can be viewed on the parent mobile app.



## Project stages Included:



Real time student attendance & bus tracking system by BBSPL will ensure the safety of the student by tracking his daily school attendance. Auto sms to the parents relieves the pressure on school to provide minute by minute attendance updates to each parent.



RFID enabled  
School Badge



Install RFID gate  
readers



Student' s RFID enabled hard badges are provided with all necessary details printed.

Install RFID reader antenna at the school gate. Bus drivers are provided with handheld RFID reading devices or use NFC enabled android smartphone. Driver mobile app is provided

# Process Flow (Home to School)

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Student enters the bus and the bus drivers scans student's ID card using handheld RFID scanning device/ mobile phone. Auto sms to the parent that the student has entered the bus.

Track the bus location using GPS locators. Real time location can be viewed on the parent's mobile app.

When the bus enters the school, driver updates the scanning device/driver mobile app. Instantly auto sms is sent to the parents that their child has entered the school premises. Student attendance is marked automatically.

On-foot students ID cards will be auto scanned by the RFID antennas installed on the entry gates.

# Process Flow (School to Home)

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When the student is entering the bus from school, driver scans his ID card. Auto sms to the parent that their child is now in the bus which is coming back home.

Track the bus location using GPS locators. Real time location can be viewed on the parent's mobile app. Parents can estimate the time taken for the bus to arrive at their stop and pick up their child accordingly

When the student is exiting the bus at their respective stop, driver scans the student's ID card again. Auto sms to the parent that their child is now at the bus stop.

On-foot students ID cards will be auto scanned by the RFID antennas installed on the exit gates and sms sent to the parents as well.



☰

Dashboard

Real Dashboard

Student >

Teacher

Parents

Accountant

Class >

Subject >

Class Routine >

Daily Attendance >

Exam >

Study Material

Accounting >

Transport

Holiday List

PUBLIC SCHOOL

Running Session : 2019-2020

Website Admin Log Out


Admin Dashboard


Date17-09-2019

Total Student - 1984

47%

53%





ON Foot Students1293


IN : 811 OUT : 1

Bus Students691

IN : 243 OUT : 0

In Out Report

Student In Out Report



In

Out

Sending Messages In Seconds

↓ Reach16.74

↑ Leave 7.00


Gate 10.00%

IN : 474 OUT : 0

Gate 20.30%

IN : 337 OUT : 1

Incorrect64



# Admin Dashboard LIVE

School Dashboard				
	Total Requests	Home to School	Left from School	Reached Home
	1119	243	0	0
	Student Name GAURANSH AGRAWAL	Student Name GAURANSH AGRAWAL-DUMMY ROUTE	Student Name	Student Name
	Server CPU Usage 0.5%	GATE No. 1 52	GATE No. 2 1	Student IN Gate No. 1 : 479 Gate No. 2 : 344
		HFID :	HFID : E2000017160301960290F052	

Home to School

School Dashboard				
	Total Requests	Home to School	Left from School	Reached Home
	2324	245	198	185
	Student Name YASH MISHRA	Student Name sunil1-Route 11	Student Name SIMARJEET SAHNI-Route 20	Student Name YASH MISHRA-Route 7
	Server CPU Usage 0.5%	GATE No. 1 512	GATE No. 2 361	Student IN Gate No. 1 : 479 Gate No. 2 : 344
		HFID :	HFID : E20040749507016424901830	

School to Home



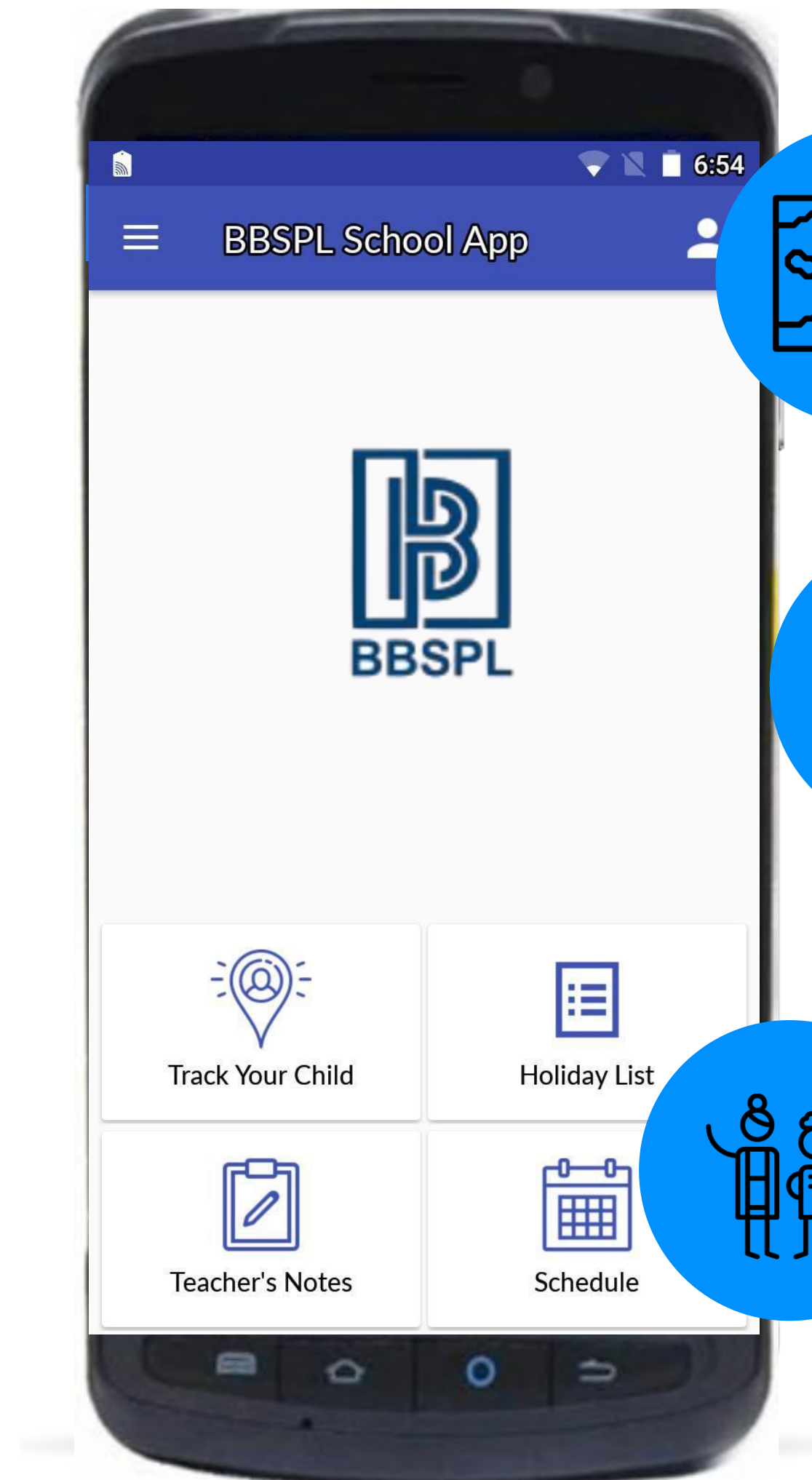
# Mobile App

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## Parent Mobile App



Our System Runs on State of the Art Android application which can be supported by any smart phone.



### Track the child's bus

The real time location of the bus can be viewed on the mobile app.



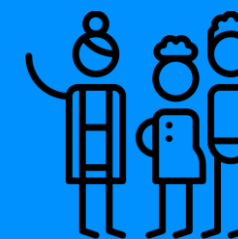
### Estimate the bus arrival

Parents can estimate the arrival times of the bus at the stop both in the morning and evening.



### Parent-Teacher interaction

Additional modules are provided for facilitating student teacher interactions.



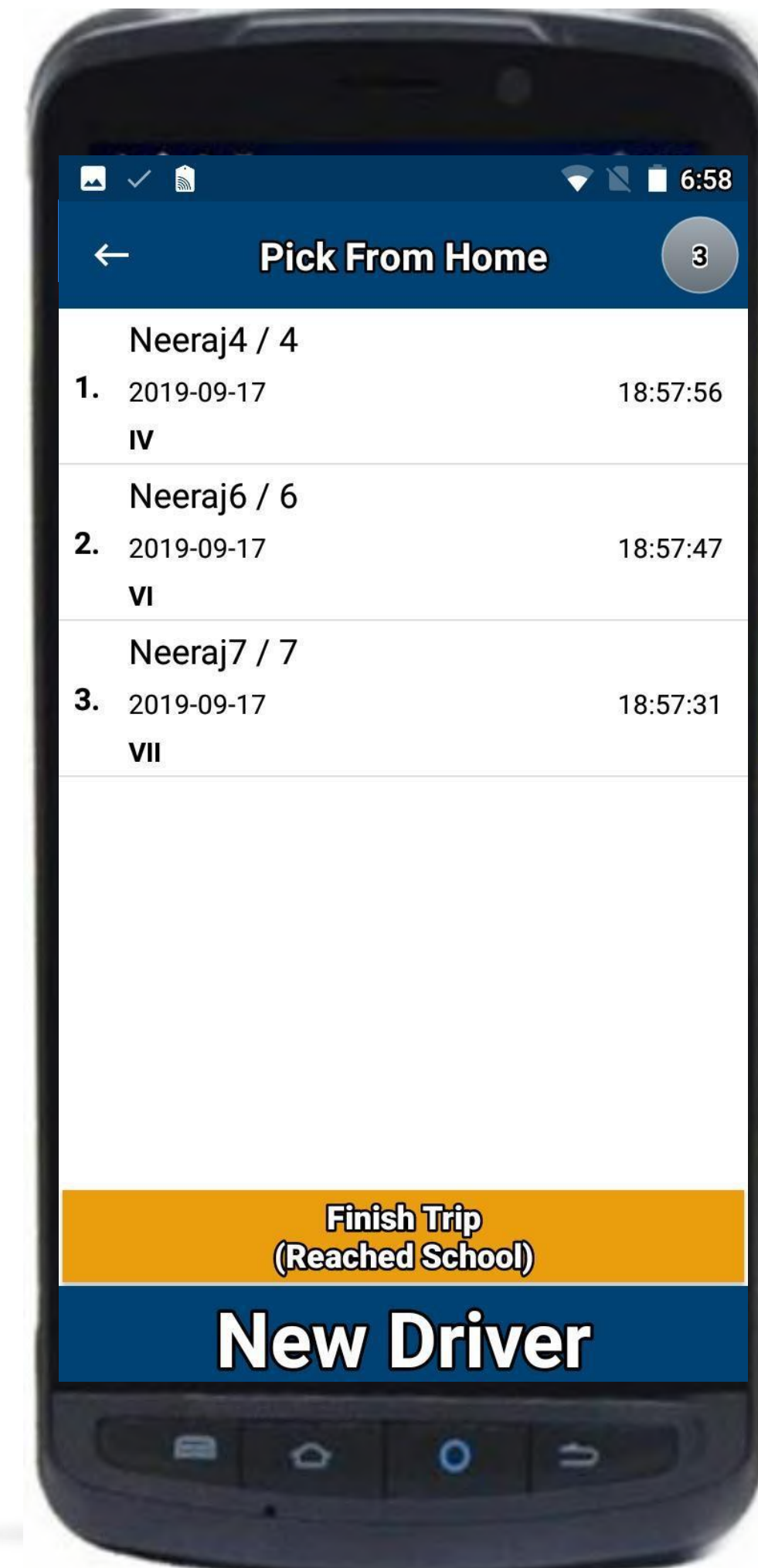
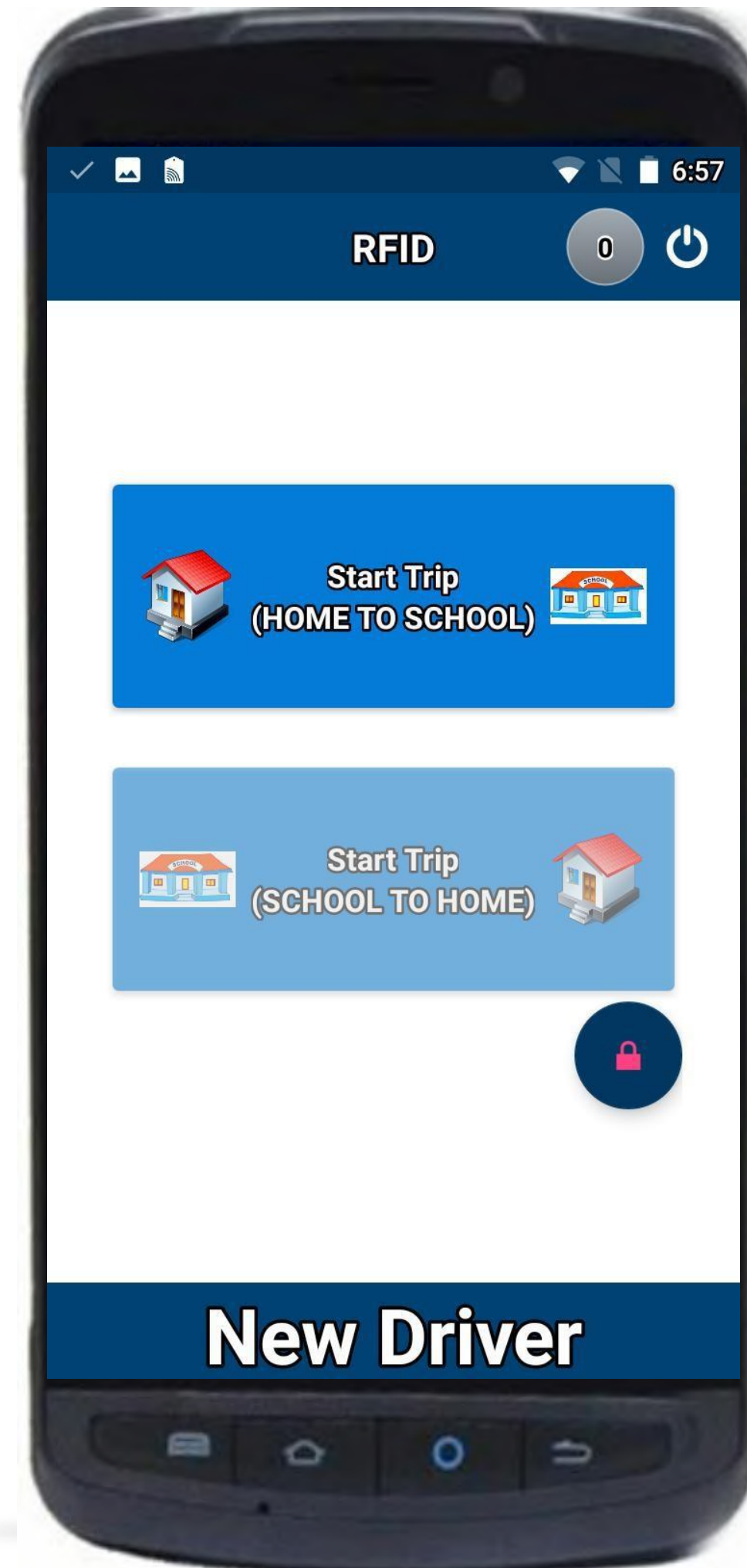


# Mobile App

## Driver Mobile App



Each student ID is scanned and saved into the system. Once saved, a sms is sent to the parents immediately.





## Student Safety

The most important part is to ensure the complete safety of the student while he is travelling to & from the school. Our system ensures that each student entry and exit are recodered without failure.



## Automatic Student Attendance

School can record their daily student attendance with 100% accuracy



## Real time updates

Parents receive real time updates regarding the entry/exit of the their child in the bus and/or school premises.



## Bus Tracking

Parents and School can track the real time movements of their buses. Parents can easily estimate the time taken by the bus to reach the bus stop.





Asset Management  
Barcode or RFID



Work in Progress Tracking  
Barcode or RFID

Automatic Number plate Reader  
ANPR



Retail Vision  
Age and Gender analyses of Visitors









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