FUSIONWORLD

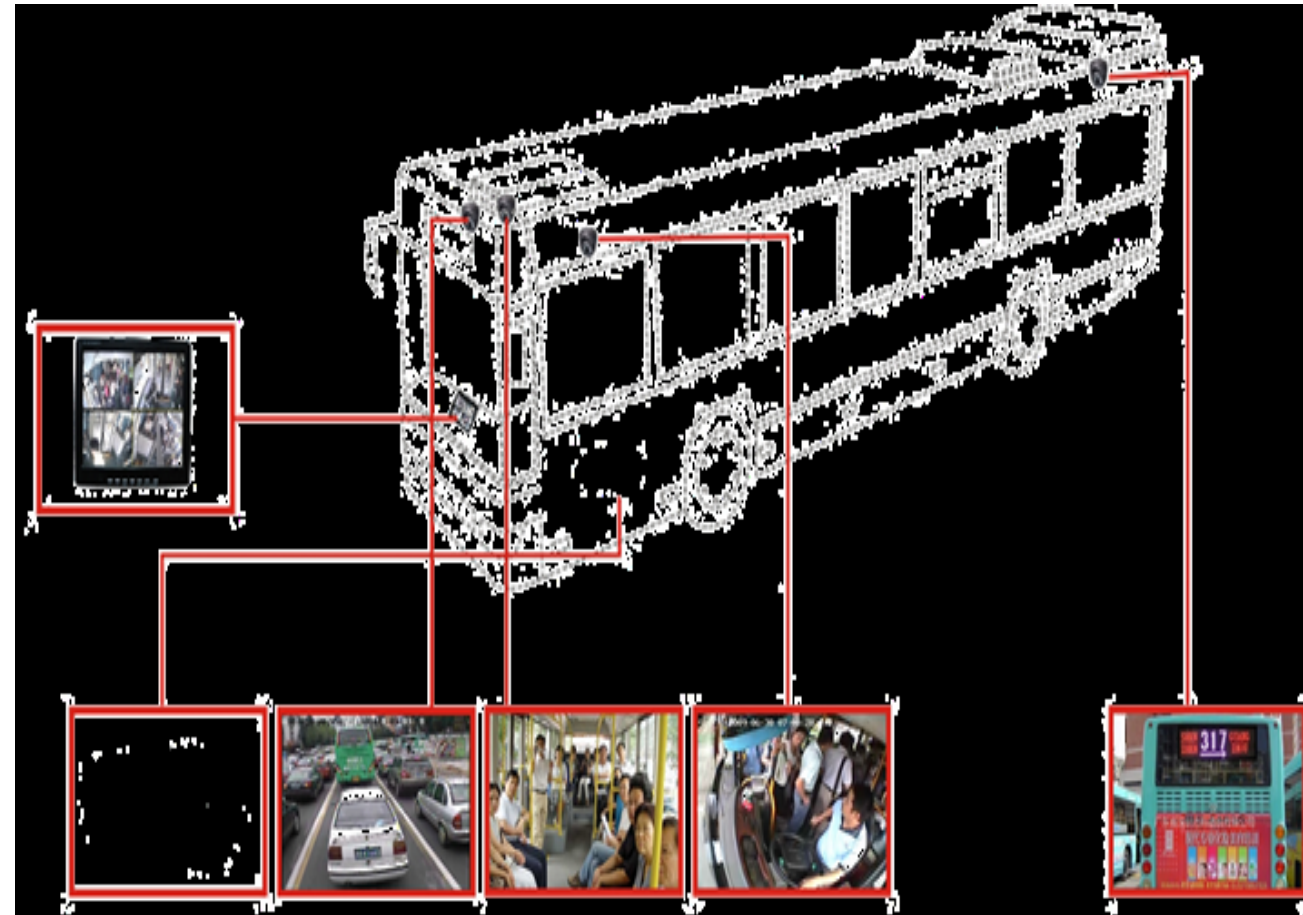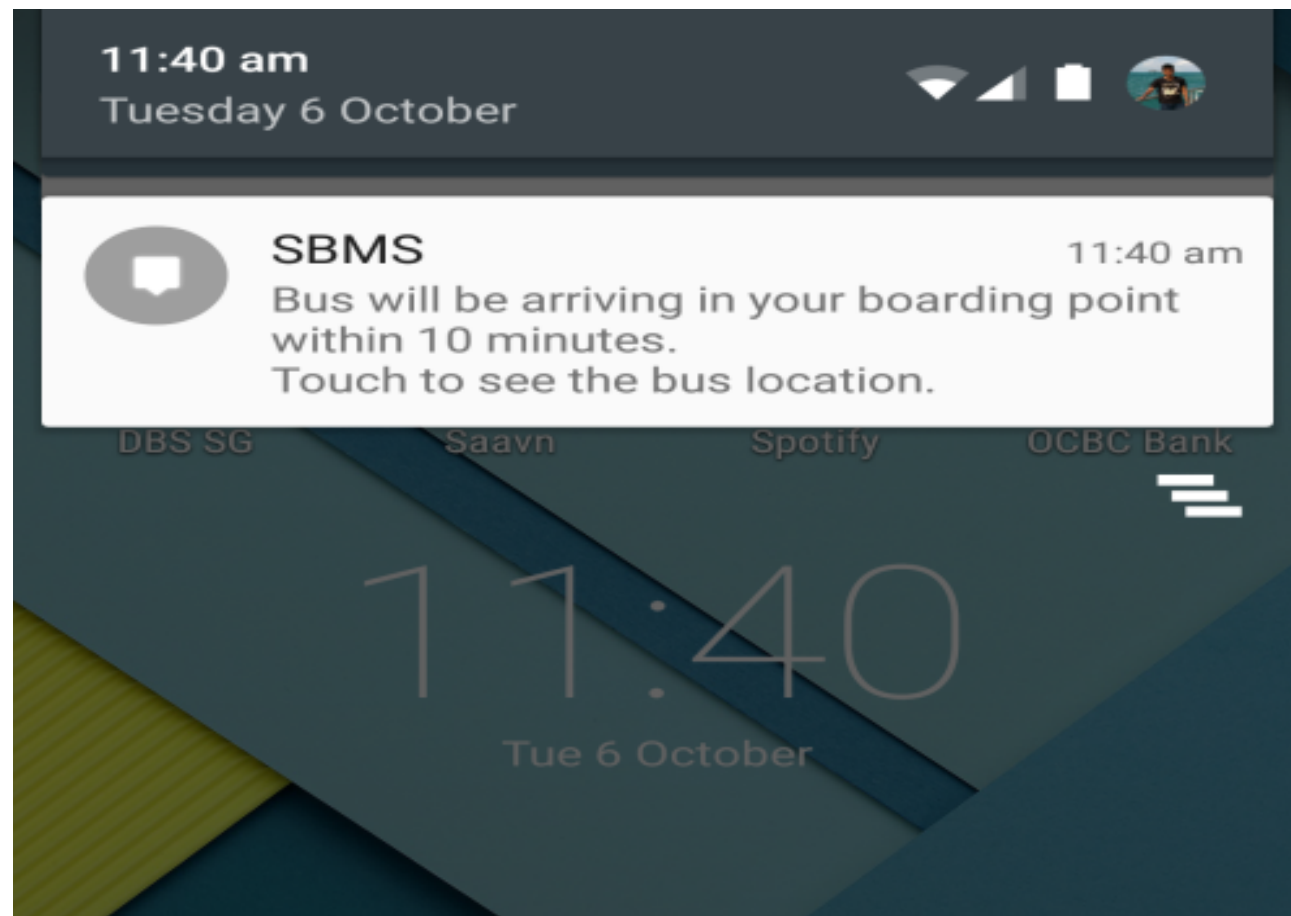## SCHOOL BUS MANAGEMENT SYSTEM
INTEGRATED MONITORING AND TRACKING SYSTEM OF SCHOOL BUSES

(From top left)

(From left)
1) Phone notification from parent's SBMS phone application

2) Strategic CCTVs installation to monitor and ensure safety of bus drivers and students

CHALLENGES

- Human errors in manual attendance-taking
- Ineffective and inefficient manual bus route planning
- Reckless driving compromises safety of school students
- Irregular arrival timings increase waiting time and causes students to miss their school buses
- Difficulty in ensuring students'safety onboard school buses ot prevent boarding of wrong buses

OUR SOLUTION

Our School Bus Management System combines a command centre system, mobile applications for both parents and drivers and an admin portal.
Incorporating CCTV footages, GPS satellite tracking, and RFID technology.

BENEFITS

Command Centre monitors real time GPS locations of drivers and with installed CCTVs ensures bus drivers practice safe driving on the roads.
Mobile application developed for parents helps to notify parents when buses are arriving to eliminate unecessary waiting time and notify parents when children board and alight from the school bus using RFID Technology. It also allows parents to contact drivers in times of emergencies.
Mobile Application developed for drivers helps to notify drivers when child is absent and takes real time attendance of students automatically when students board and alight from the bus. It also plans out the most effective route for drivers to take based on student pick ups and attendance. It also allows drivers to contact parents in times of emergencies.

Admin Portal for ease of maintaining system data of new students or new drivers.

Overall reduction of up to 20 minutes of waiting time and travel duration per trip.

APPLICATIONS

- Dipper trucks
- Delivery trucks
- Passenger Bus Management Companies

CONTACT US
MR RICK YEO
T +65 6793 8383 E RICKYEO@SIMTECH.A-STAR.EDU.SG
WWW.SIMTECH.A-STAR.EDU.SG

Singapore Institute of Manufacturing Technology
A*STAR

WWW.FUSIONWORLD.SG