

# beCo SmartTrack

STUDENT LOCATION TRACKER AND ATTENDANCE  
MANAGEMENT



beCO  
the best Companion

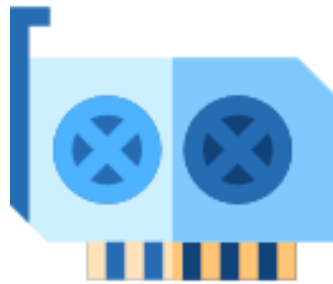
## WHY SmartTrack??

Safety and Well being of the child is at most priority for all parents as well as teachers. To know their status and make sure they are fine gives us peace of mind and joy. SmartTrack is a product developed by beCo to help parents and teachers track their children's presence, location and status in real time. SmartTrack is an intelligent system combining essential hardware and a brilliant support software, which helps users to locate the status of their child in real time through a smart card given to them. An Application or subscription based system helps the user to track the school bus location and its arrival status. The SmartTrack system also provides advanced features like analytics and the ability to maintain wallets to offer complete visibility for parents and there by offering convenience.

# SmartTrack

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SmartTrack is an intelligent solution designed and developed for the benefit of monitoring the student's presence and status within the school premises as well as school bus. SmartTrack mainly comprises of 4 main parts.



**Hardware**



**Software**



**Interactive  
Id card**



**Mobile  
Application**

# SmartTrack

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The Id Card worn by the student works as a tracker. The students presence is constantly monitored and logged in an internal database from where essential details are communicated with parents as well as authorities. The Smartrack card is identified by the hardware receivers all the time that the absence of the student within the campus or school bus can be easily recognised.

Receivers are placed at the Entry/Exit points of the school building and its compound so that every time the student enters or leaves these gates the presence can be identified and logged. This system helps to mark the attendance of the ward by knowing their presence and the same details can be communicated to the parents through a mobile App or SMS. The same system is used in the school buses where the presence is identified by a receiver at the door .The location of the school bus can be tracked by the parents in real time and can prepare themselves during pickup or drop to make sure nothing goes wrong.

Other advanced features like e-wallet maintenance for purchases within canteen or other services in school using the SmartTrack card, and Analytics associated with the students profile can be maintained . This helps parents to give better visibility of things.

# Features

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## **SCHOOL BUS**

1. SMS or notification through Application few minutes before the arrival of the bus (Pickup/Dropoff)
2. Identify the presence of the student in the bus and keep the data logged.
3. Real time Tracking of the bus for parents.
4. If the student is late because of the bus it marks them 'Not late', similarly if the bus is late due to the student it can be noticed and analytics can be maintained.

# Features

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## School

1. Exit & Entry notification for parents, class teacher as well as authorities when students enter and leave the premises of school/class.
2. SMS or Application based notification/status update for parents regarding the availability of student in school. (eg: if the student is absent parents can be notified via sms)

# Features

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## **Advanced**

1. E wallet can be maintained tagged to the students account which will help them purchase goods and services even if they do not have cash with them. This service can be utilised at the canteen or other stores within the campus. This also helps parents to have better control and visibility over the money given to their ward.
2. Analytics based on students presence in school can be collected and maintained. Data like classes skipped, recess time utilization etc. can be interpreted in the right way.

# Technology

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**Map engine:** A navigation and route engine run behind the scenes of our map view. A Web interface plots the path points and navigable areas that can be used for navigation by Android/ iOS SDK. Our web interface gives complete control to edit the routes and points. Our navigation engine supports navigation between floors which makes use of escalators and elevators.

**Beacons:** We make use of beacons. These are tiny Bluetooth transmitters placed at a known location to transmit a continuous radio signal with limited information content such as its identification or location on a specified radio frequency.

**RFID:** RFID stands for Radio-Frequency Identification. These are small electronic devices that consist of a small chip and an antenna. RFID tags are used to tag items that needs to be identified. 'Active RFID' tags that can communicate from long distances have their own power source, whereas 'Passive RFID' tags do not require a power source and have virtually unlimited lifespan.



# Features

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**SECURITY** : The application is highly secured with no chance of data loss.

**PERFORMANCE**: High performance guaranteed with continuous monitoring and enhancement.

**PRIVACY**: We value the privacy of users and do not use any of the data without user permission.

**USER EXPERIENCE**: We provide the simple, easy to use interface for the users throughout the application.

**SCALABLE**: Applications are built to handle increased load of users and transactions.

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# Thank you..!!

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