**BUS TRACKING SYSTEM**

**ABSTRACT:**

The parents feel inconvenient while waiting for a long time at the bus stops to pick up their children. In order to overcome this problem, parents can be given the prior information about the location of the bus. This can be achieved by using an efficient bus tracking system, which is designed for tracking the movement of an equipped bus from any location. The location of the bus can be traced using the Global Positioning System (GPS) and General Packet Radio Service technology that is one of the most common ways for tracking the vehicle location. The device is embedded in the bus whose position is to be determined and tracked in real time. The bus uses a GPS module to get the geographic coordinates at regular time intervals. The GPS/GPRS module is used to transmit and update the bus location is posted to the Blockchain network. A smart phone application is developed for continuously monitoring the bus location. The Google maps API is used to display the bus on the map in the smart phone application. Thus, users will be able to monitor the location of the bus using the smart phone application and can determine the estimated distance and time for the bus to arrival to given destination.

**Keywords:** Bus tracking, Google maps API, GPS/GPRS technology, Blockchain Technology