**TRANSIT TRACKER: REAL-TIME BUS LOCATION SYSTEM**

ABSTRACT

Due to rapid increase in population, there is need for efficient public transportation system. Sometimes there exists delays of buses due to traffic which may cause problems and discomfort for the wider demographic making them having to wait for more amount of time than usual in order to board a bus. Therefore, the remote user needs a smart system which provides real-time information of bus. So, we proposed a new system which solves the drawback of current public transportation system.

Our project is based on real-time bus tracking using mobile GPS systems, making it more economic and user friendly. It enables us to know the details of a running bus and its current whereabouts. This project involves the usage of APIs and Databases for storing data and location information. The staff on duty has to enable their location information and the users will be able to know which buses are currently running between the starting and ending stations based on their locations.

Therefore, the users can plan their boarding times and know which bus to choose from which solves the problem of having to wait for a long time because of the delays. Our project can act as a foundation for much more advancements and applications in the future.

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