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# Advancements in Public Transport: Design and Implementation of an Android-Based Real-Time Bus Tracking System

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In cities, bus transportation is becoming a vital form of transportation. Most people in cities and villages use this form of public transportation. But since nothing in ... **View more**

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**Abstract:**
In cities, bus transportation is becoming a vital form of transportation. Most people in cities and villages use this form of public transportation. But since nothing in life is flawless, there is one shortcoming with buses as well: passengers must wait too long for the bus to arrive without having knowledge of where the bus is. This shortcoming encourages the use of private vehicles, which leads to an increase in fuel consumption and pollution. People move from one city to another for a variety of reasons, such as education, employment, travel, and so forth; therefore, they may not be familiar with all the locations in the new city. They encounter challenges when trying to visit some of the city's new locations. The Indian Government has initiated the Smart Cities Mission to improve people's living quality in cities and towns by using best practices, information, digital technology, etc. Such people migrating from one city to another face the major problem of finding city buses. As they are new to the city, they are unaware of the city's bus timings and bus numbers. To solve these difficulties, this proposed system of bus app was created. The passengers would benefit from knowing the buses' approximate arrival times so they may schedule their travel accordingly rather than waiting for them. This app provides information on the arrival and departure times of metropolitan city buses and tracks them. Since most people have smartphones, the bus driver's phone was used to track all of the buses along the route and was embedded with the Google Maps API. Users may log in and see all the buses that are close by with live tracking. This smart bus app may help in solving locality identification problems for passengers.

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## Contents



Buses play a crucial role in day-to-day life by providing an affordable, reliable, and convenient mode of transportation for millions of people worldwide. Buses offer a more accessible mode of transportation for people who may not have access to personal vehicles or other forms of transportation. They operate on schedules and routes, making them a convenient choice for commuting to work, school, or other destinations. They also often have multiple stops, allowing passengers to get on and off at various locations along the route. Moreover, buses are typically more affordable than other modes of transportation such as cars, taxis, or ride-sharing services, making them a popular choice for budget-conscious travelers. There are buses available for passengers travelling to different locations, but not all passengers are aware of the bus information.



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