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Public Bus Tracking System for Sri Lanka

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The COVID-19 pandemic placed the entire world on lockdown for the first time. People are afraid to go to crowded places like bus stops during this situation. Further, public transportation services are in trouble due to traffic congestion, unexpected delays, and irregular vehicle dispatching times. Manually, the system has encountered a security problem with the data and lost records. Due to those issues, automated systems have been developed for public bus transport. These systems can solve some problems, but they are not yet perfect due to all the issues in public bus transportation. Due to a variety of advantages, most people choose to take public transportation rather than drive their own vehicles. If people know the schedule for their bus route through their mobile devices, they can arrive at the bus stop in time to avoid waiting and thus reduce time waste. High technology has a major impact on human life and allows us to significantly simplify and automate daily activities. General computerization allows for easier access to all kinds of information needed in daily life, as well as more specialized ones. The proposed system is to develop web-based and mobile-based applications for public people because they waste money and time in daily life. Global Positioning Technology System (GPS) technology is used for system development as it can be used to track the location easily. Therefore, people can reduce their difficulties and access and manage the system easily.

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