

# Road Incidents Pre-Notifying Navigation Android Application Model Suggestion for Sri Lanka

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**Abstract.** Due to the increasing number of incidents that occurred on the road and the delay in notifying the relevant authorities has caused problems. This situation leads to traffic congestions, waste of time, and resources even the human lives are at stake. After identifying road incidents like fallen power lines, trees, insecure bends/slope, sudden landslides, insecure railway crossing without proper gates and many more the proposed process is to use an android application. The use of the smartphone has become very much effective in this scenario. The road incident pre-notifying GPS navigation suggestion model, using smartphone sensors, the incident images, videos with the detailed information like exact location using GPS can be uploaded to the application server which can be shared accordingly. This can trigger the notification to appropriate authorities to act quickly to solve the problem as soon as possible. This approach can save time and the restoration become much faster which can benefit people to make their day-to-day life much safer and comfortable.

**Keywords:** *Road Incidents, GPS Navigation System, Android*