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RESEARCH ARTICLE

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FAST LIFE

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ABSTRACT

The integration of GPS technology and business signal control in exigency vehicles, particularly ambulances, can significantly ameliorate response times and save precious twinkles in critical situations. By connecting the GPS systems of exigency vehicles with business signals, the signals can automatically change to green when an ambulance is approaching, creating a clear path for the ambulance to pass through corners without detention. This system relies on a network of detectors and communication outfits that can descry the ambulance's position and acclimate business signals in real-time. The benefits of this technology are multitudinous as it not only helps save lives by reducing response times but also reduces business traffic by optimizing business inflow. This innovative approach to ambulance transportation can make a tremendous impact in extremities, particularly in densely peopled areas where business traffic can stymie the progress of exigency vehicles. In short, the integration of GPS- connected business signals can be a game-changer for exigency vehicle transportation and help insure that ambulances reach their destination snappily and safely eventually saving lives while perfecting effectiveness in exigency response systems.

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INTRODUCTION

Every alternate counts in extremities and effective ambulance transportation can make the difference between life and death. To address this need, ultramodern technology has equipped ambulances with GPS systems that enable them to navigate through business with ease. But what if the business itself could be optimized to accommodate the fast movement of ambulances? That is where GPS-connected business signals come by. The idea behind this technology is simple by connecting the GPS systems of exigency vehicles with business signals, the signals can automatically change to green when an ambulance is approaching, creating a clear path for the ambulance to pass through corners without detention. This system can also help reduce the threat of accidents by icing that other vehicles are apprehensive of the ambulance's presence and can move out of the way. This system relies on a network of detectors and communication outfits that can descry the ambulance's position and acclimate business signals in real-time. By optimizing the movement of exigency vehicles, this technology can significantly ameliorate response times and save precious twinkles in critical situations. This innovative approach to ambulance transportation can make a tremendous impact in extremities, particularly in densely peopled areas where business traffic can stymie the progress of exigency vehicles. The integration of GPS technology and business signal control can help ensure that ambulances can get to their destination snappily and safely, eventually saving lives.

The benefits of this technology are multitudinous. Not only can it help save lives by reducing response times and icing that exigency vehicles can navigate through business snappily and safely, but it can also help reduce business traffic by optimizing business inflow. This can have a positive impact on the terrain, as smaller footling vehicles mean lower air pollution. In short, the integration of GPS- connected business signals can be a game-changer for exigency vehicle transportation. By furnishing a clear path for ambulances to move through corners snappily and safely, this technology can help save lives and ameliorate the effects of exigency response systems.

LITERATURE REVIEW

Literature on content: Advanced ambulance services and smooth movement are critical factors in furnishing effective exigency medical care in India. Recently, there has been a growing emphasis on upgrading ambulance services and perfecting road structures to insure quick and effective transport of cases to healthcare installations. Advanced ambulance services generally feature equipped with state-of-the-art medical outfits and are staffed by trained medical professionals, allowing for on-point treatment and stabilization of cases en route to the sanitarium.

Literature on the system: Some advanced ambulance services also offer air ambulance services for cases that bear immediate transportation over long distances. In terms of smooth movement, the Indian government has taken a colorful way to ameliorate the

This includes the construction of new roadways, the elevation of roads, and the perpetuation of intelligent business operation systems to reduce traffic and ameliorate the inflow of business. Also, there have been sweats to ameliorate exigency medical services response times by establishing devoted lanes for ambulances and exigency vehicles, and by enforcing real-time business monitoring systems that can snappily route ambulances around business detainments. While important progress has been made in recent times, there's still a long way to go to insure that all corridors of India have access to advanced ambulance services and smooth movement. Nonetheless, these sweats represent a significant step forward in perfecting the delivery of exigency medical care in India.

Theoretical approach: An advanced ambulance can employ several theoretical approaches to achieve smooth movement, including

1. **Suspense Systems:** An advanced ambulance can be equipped with a high-performance suspense system that can effectively absorb shocks and climate from the road, furnishing a smooth and stable lift for both the case and the medical staff. This can be achieved through the use of hydraulic, air, or curvaceous suspense systems.
2. **Active Chassis Control:** This technology can stoutly acclimate the suspense of the ambulance in real-time, grounded on road conditions and driving geste, to insure a smooth and stable lift. This can be fulfilled through the use of detectors and algorithms that can descry and respond to road conditions in real-time.
3. **Vehicle Stability Control:** This technology helps the ambulance to maintain its stability during unforeseen pushes, similar to fugitive driving or sharp turns. It does this by applying thicketts to individual buses and reducing machine power, if necessary, to keep the vehicle under control.
4. **Power Steering:** A power steering system can give bettered projects and a smoother driving experience, especially when navigating tight corners and sharp turns.
5. **Tire Technology:** An advanced ambulance can be equipped with high-performance tires explicitly designed for smooth and stable movement. This can include low-profile tires with a softer sidewall or tires with a technical tread pattern that can reduce road noise and climate. These are some of the theoretical approaches that can be employed to achieve smooth movement in an ambulance. By combining these technologies and precisely tuning them to work together, an advanced ambulance can give a safe and comfortable lift for both cases and medical staff.

METHODOLOGY

Fast life has its particular purpose for serving people: So, the name "Fast life" it's each about saving a life. The purpose of this App is to indicate to the business police regarding the appearance of an ambulance within a near distance to avoid business logjams and make a clear way for the ambulance. This works in a way the app will need a username and word obligatory to do and it'll be given only to the police officers and only they're given access the app. After the police get access to the app, they can not use that all time, they will admit a particular announcement when an ambulance arrives near them. It'll be a special announcement like an alarm to warn them. It's set this way so that there is no need for them to see phones always and get distracted. It would be available on both the play store and apple store This is one of the most important aspects of the AIS 140 GPS Device, so lines have made real-time vehicle tracking veritably easy will help you cover the route taken by the vehicle, the time taken by the vehicle, and Route Optimisation. This chip will be fitted in ambulances which helps in the process of tracking them and participating in locales with police officers. The app will be like a chart it'll have the ambulance icons at the position they're present and moves when the vehicle moves. For example, When the ambulance is 6 km down from the officers they get an alarm and clear business on the route for the ambulance to move down, it has different admonitions according to the distance the ambulance to help the officers is down and helps similarly. Like red alarm would be indicating the vehicle is near, whereas a blue would say 3 km down

and reach soon. For the design for the original phase of the trail, we'd be getting 2- 3 old ambulances and modifying them with all the necessary structures outside, once its ready will try them out

Research data's

AIS 140 GPS helps in GPS Location Tracking: Real-time vehicle shadowing is veritably easy that will help you cover the route taken by the vehicle, the time taken by the vehicle, and Route Optimisation.

Exigency Request Button (PANIC/ SOS): The vehicles which will be equipped with AIS 140 pukka bias will also be fitted with exigency Request Button (s). Pressing the exigency Button will shoot position information to the exigency garçon. The position packet which consists of Latitude and Longitude will be transferred to the garçon every 5 seconds and this process will continue until the IP with this information isn't cleared. This will help the department track the vehicle in case of exigency and enable the motorist or passengers to advise the control room of any mishap or other extremities.

Monitoring and controlling business lights on specified paths to the sanitarium: When the exigency enchantresses are turned on and the vehicle approaches within about, 500 bases of an equipped business light, the business signals will change or remain green for the exigency vehicle to pass.

To identify the possibility of an ambulance on the road by using GPS: There's a loss of life due to the detention in the appearance of an ambulance to the sanitarium in the golden hour. This detention is substantially caused by staying for the ambulance at the business signals. GPS shadowing will help in giving stylish and the fastest routes. With all these, it would be easy to track the Ambulance and can save lives.

Why this design? according to our exploration

In 2017, roughly 30 exigency case deaths were caused by business logjams in the whole nation 2017

This is a commodity that we can not accept, we could have saved those lives but we failed because of our business, but we are not going to make the same miscalculations in forthcoming times. We're then FAST- LIFE has got your reverse in this.

By our FAST- LIFE we can reduce this 20 to around straight down 5- 8 and reducing one death itself is a great achievement

As days will move around, we can take the help of advanced technology and can straight down flatten the wind to 0 and make our nation the great nation

Other than these,

At times some accidents do be while paving way for ambulances in the rush and this is also a loss of life's our app will reduce this rate as well.

From 1990 – 2009 there were an aggregate of,810 ambulance crashes

- 1) It'll make life easier.
 - 2) It'll be simple to cover the position of the ambulance.
 - 3) This will suggest the nearest sanitarium and the optimum route
- As we could get the position near this will be more helpful to the ambulance motorist.
- 4) This will also help police officers in their busy schedules while managing business.
 - 5) As this app comes on the move it'll make people understand the significance of an ambulance in their life.
 - 6) This gives sequestration only accessible to police officers.
 - 7) In a circular way it assures the safety of the life of the person inside as the police can track the position.
 - 8) Ambulance drives can drive safely without any chaos.

- 9) It'll be easy to use by both police and ambulance motorist.
- 10) The App will have 2 corridors
 - a The police can access both
 - b The ambulance driver can have access to a single part only
- 11) It will save lots of lives
- 12) There's nothing better than that.

Market value: Road business traffic becomes a major issue for largely crowded metropolitan metropolises. India is the alternate most populated country in the world and is a fast-growing frugality. It's facing terrible road traffic in the metropolises. According to the Times of India, about 30 percent of deaths are caused due to delayed ambulances reaching the sanitarium. mortal life is affected due to detentions in the appearance of the ambulance. The ambulance isn't suitable to reach the sanitarium in the golden hour. It gets wedged in the business signals. It would be of, great use to the case if the business signals in the path of the ambulance are ON. In the proposed system we're trying to reduce the detention for the ambulance by giving A announcement to the nearest business police so that he can, change the business signal or let it remain green for the exigency vehicle to pass. Road business Traffic is one of the problems that need to be noticed but goes unnoticed always, people mind saving lives by calling an ambulance but also they forgot that an ambulance needs to reach the sanitarium within time, and our app fulfills that need.

- According to the request value, we could say it does fulfill the route, especially for the ambulance and business control
- This chart would be different from the rest as these concentrate on ambulances and lanes from them to travel.
- We have delved and collected all data from google and collected it and formed our design for the ambulance regarding the chart we'd make many changes to the easiest routes visible for the motorists and police.
- Our ethics is nothing but " Save mortal lives". Once our design gets perfected we're keen on visiting investors regarding backing for our design. We'd also be trying to unite on this design with the government as a precedence.

Primary Data

Significance: The response and transport intervals of an ambulance dispatch are affected by colorful factors. The present ambulance system relies on the motorist's experience, knowledge of the original road chart, and estimations of directions. These may contribute to detentions, misdirection, and hamstrung application of coffers. The objects of this study were to assess the goods of GPS navigation hard a 1 km compass signal opens automatically gives way to the ambulance device on the response and transport time intervals of an ambulance service operating in a civic setting.

METHODOLOGY

We're in the process of creating an app, which will be known as " Fast life". It has its particular purpose of serving people. It'll be made available on both platforms Google play and App store. So, the name " Fast life" it's each about saving a life. The purpose of this App is to indicate to the business police regarding the appearance of an ambulance within a near distance to avoid business logjams and make a clear way for the ambulance. This works in a way the app will need a username and word obligatory to do and it'll be given only to the police officers and only they're given access the app. After the police get access to the app, they can not use that all time, they will admit a particular announcement when an ambulance arrives near them. It'll be a special announcement like an alarm to warn them. It's set this way so that there is no need for them to see phones always and get distracted.

Statement of Limitations

Alternative: An indispensable idea to GPS- connected business signals for the fast movement of ambulances could be the creation of

devoted ambulance lanes on major roads and roadways. analogous to machine-only lanes, these lanes would be reserved simply for use by exigency vehicles and would be designed to allow for a nippy and effective trip, free from the constraints of regular business. These devoted lanes could be enforced using physical walls, similar to separations or concrete blocks, to insure that other vehicles can not enter the lane, or through the use of digital technology that enables automatic lane allocation grounded on the position of the ambulance. Business lights at corners could also be programmed to prioritize the ambulance lane, allowing for smooth and continued movement. This approach has several implicit benefits. First, it eliminates the need for a complicated and expensive network of detectors and communication outfits needed for GPS- connected business signals. Second, it provides a devoted and defended space for exigency vehicles, reducing the threat of accidents and perfecting safety. Eventually, it can offer brisk and more dependable response times for exigency services, perfecting the overall quality of exigency care and potentially saving lives. still, the perpetration of devoted ambulance lanes may bear significant structure investment and could affect increased business traffic in on-ambulance lanes, particularly during peak business ages. Careful planning and collaboration with original authorities and business operation systems would be necessary to insure that the benefits of the ambulance lanes overweigh the implicit downsides.

Weakness: While the idea of using GPS- connected business signals to grease the fast movement of ambulances has numerous implicit benefits, there are also several downsides and challenges to consider.

Then are five major bones

- **Limited content enforcing a GPS:** The connected business signal system would bear significant structure investment to cover all major roads and roadways, and indeed also, it may not be possible to cover all areas, particularly in pastoral or remote locales.
- **Specialized challenges:** The system's success depends on the delicacy and trustability of the GPS and communication technology used. Any specialized failures or malfunctions could delay exigency response times, potentially leading to serious consequences.
- **Collaboration with other vehicles:** The system requires other vehicles to fete the precedence of the ambulance and move out of the way. Not all motorists may be apprehensive of or follow the protocol, potentially impeding the ambulance's progress.
- **Perpetration challenges:** Coordinating with original authorities, megacity planning, and transportation agencies would be necessary for successful perpetration. There may be challenges in terms of backing, design operation, and implicit resistance from the public or other stakeholders.
- **Safety enterprises:** Some may argue that the system's prioritization of ambulances could lead to an increased threat of accidents involving other vehicles, particularly in situations where motorists are rushing to clear corners or moving out of the way. Balancing the safety of all road druggies is a critical consideration when enforcing such a system.

What Will Our Research Do?

Then are five major points on what exploration of the idea of a fast movement of the ambulance with GPS- connected business signals could achieve

Feasibility Assessment Research can determine the specialized feasibility and practicality of enforcing a GPS- connected business signal system, as well as the needed structure and associated costs. Safety Analysis Research can assess the safety counteraccusations of prioritizing ambulances on the road, as well as identify implicit pitfalls and enterprises for other road druggies.

Optimization Analysis exploration can dissect how the system can be optimized to ameliorate response times for ambulances and reduce

detainments in extremities, as well as explore how the system can be integrated with other transportation technologies and systems.

Public Perception Analysis Research can probe public stations and comprehensions towards the use of GPS- connected business signals to grease the fast movement of ambulances, as well as explore implicit walls and facilitators to the relinquishment and use of the technology.

Impact Evaluation exploration can estimate the overall impact of the GPS- connected business signal system on exigency response times, patient issues, business inflow, and environmental issues, furnishing substantiation on the effectiveness of the system and relating areas for enhancement.

CONCLUSION

The use of GPS-connected traffic signals to facilitate the fast movement of ambulances has the potential to revolutionize emergency medical care and improve patient outcomes. This innovative approach can help save lives by reducing response times and ensuring that patients receive prompt and effective care during medical emergencies. However, the implementation of this system requires careful consideration and planning. The first step is to assess the technical feasibility of the system and the practicality of its implementation. This requires significant infrastructure investment to cover all major roads and highways, and even then, it may not be possible to cover all areas, particularly in rural or remote locations. Therefore, it is essential to conduct a thorough feasibility study that considers the system's technical, financial, and operational requirements. Another critical consideration is the system's safety implications. While prioritizing ambulances on the road can significantly reduce response times, it can also pose risks to other road users. Therefore, it is essential to analyze potential risks and concerns for other road users and ensure that the system is designed and implemented with safety as a top priority.

Public perception and acceptance of the system are also crucial factors to consider. Any innovative approach to traffic management requires public trust and support. Therefore, it is essential to investigate public attitudes and perceptions toward the use of GPS-connected traffic signals to facilitate the fast movement of ambulances. This will help identify potential barriers and facilitators to the adoption and use of the technology. The optimization analysis is another crucial factor to consider. Research can analyze how the system can be optimized to improve response times for ambulances and reduce delays in emergencies. Integrating the system with other transportation technologies and systems is another crucial factor that research can investigate. Impact evaluation is critical to determine the overall impact of the GPS-connected traffic signal system on emergency response times, patient outcomes, traffic flow, and environmental outcomes. The effectiveness of the system can be evaluated using various metrics, including a reduction in response times, improvement in patient outcomes, reduction in traffic congestion, and improvement in environmental outcomes.

Alternative approaches, such as the creation of dedicated ambulance lanes on major roads and highways, could also be explored, providing a potential solution with its own set of benefits and challenges. These approaches could be evaluated alongside the GPS-connected traffic signal system to determine the most effective approach. In summary, the implementation of a GPS-connected traffic signal system to facilitate the fast movement of ambulances has the potential to revolutionize emergency medical care and improve patient outcomes. However, it requires careful consideration and planning, including feasibility assessments, safety analyses, public perception analyses, optimization analyses, and impact evaluations. It is essential to prioritize the safe and efficient movement of emergency vehicles while balancing the needs and safety of all road users. By conducting rigorous research and evaluation, we can ensure that the implementation of any system or approach is evidence-based, effective, and meets the needs of patients, healthcare providers, and the wider community. In conclusion, improving emergency response times is critical for saving lives, and the use of GPS-connected traffic signals is a promising solution that warrants further exploration and consideration. By prioritizing this issue and investing in innovative solutions, we can help ensure that patients receive the life-saving care they need in a timely and efficient manner.

Eq: If a person wants an Ambulance to a hospital that is 10Km far his/her location then he will not be waiting for a long instead we will provide an Ambulance that will be to his/her nearest location which will save time and will be of great help.

In the future it should be made mandatory by the government of India then every school, college, and university that has a total strength of more than 1500 should have an ambulance on campus.

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