PIP104 PROFESSIONAL PRACTICE-II
VIVA-VOCE

"AccidentInsightHub"

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Introduction

Road accidents pose significant challenges in terms of damage and frequent occurrence. The prevention of road accidents is emphasized through responsible behavior, adherence to regulations, and driver training. The paper identifies the delay in claiming insurance after accidents and proposes a web portal to streamline the process. The system suggests the involvement of various entities, including police, transport authorities, ambulances, or volunteers, in collecting on-the-spot information.

Literature Review

- The research article titled "On The Spot (Real time) Accident Information & Insurance Dispute Resolution," published in the Turkish Journal of Computer and Mathematics Education in 2021, addresses the need for a system or portal to collect real-time information during road accidents.

- Machine Learning Approaches to Traffic Accident Analysis and Hotspot Prediction

- Using Real-Time Road Traffic Data to Evaluate Congestion

Research Gaps Identified

- **Legal and Ethical Implications:** Investigating the legal and ethical implications of involving ordinary citizens in collecting on-the-spot accident information is essential. This could involve considerations of privacy, data security, and the admissibility of such information in legal proceedings.

- **Real-time Data Accuracy:** Assessing the accuracy and reliability of real-time data collected through the proposed system is crucial. Research could focus on the potential for false positives or negatives and propose methods to enhance the accuracy of the information gathered.

- **System Scalability:** Understanding how well the system scales to handle a larger volume of accidents and user interactions is important. Research could investigate the scalability of the web portal and database infrastructure.

Proposed Methodology

Objectives

- Users prefer apps that are intuitive and easy to navigate, especially during stressful situations like an accident. This app includes educational materials or guidance to help users understand their rights and responsibilities in the aftermath of an accident. This app facilitates quick and efficient expediting the claims process. Users prioritize apps that have robust security measures in place to protect sensitive information collected during the accident reporting process. This app complies with relevant legal and regulatory requirements, ensuring the legality and validity of information collected.

System Design & Implementation

Timeline of Project

Outcomes / Results Obtained

- **Faster Search Results:** MySql index-based search engine can quickly retrieve search results from large datasets, which can significantly reduce the time it takes for users to find the information they need.

- **Improved User Experience:** With faster search results, users are more likely to have a positive experience using the website and are more likely to return to it in the future.

- **Documentation for Legal Purposes:** The website generates comprehensive records of accidents, including details about the incident, injuries and fatalities. This documentation can be valuable for legal purposes, investigations and insurance claim assessments.

- **Reduced Fraud:** On-spot information gathering and a streamlined process can help identify and prevent fraudulent claims, contributing to a more secure insurance system

Conclusion

- On completion of this project, we will be having a website which will stand out in frontend as well as backend.
- By following a systematic approach from defining requirements to deployment and beyond developers can create a robust and user-friendly platform the key is to prioritize simplicity, user feedback, and compliance with legal standards. Through continuous iteration and adaptation, the system can evolve to meet the changing needs of users and stakeholders, ultimately contributing to improved road safety and effective dispute resolution.

References

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- Special Issue Published in Int. Jnl. Of Advanced Networking & Applications (IJANA) Page 205 On Spot Accident Information and Insurance Dispute Resolution https://www.ijana.in/papers/59.pdf
- A Study on Building a “Real-Time Vehicle Accident and Road Obstacle Notification Model” Using AI CCTV https://www.mdpi.com/2076-3417/11/17/8210

Publication Details

"Journal of Insurance Issues"

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