

Advanced Android Application for Law and Order using Data Mining

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Abstract - The amount of crime in our country have been raised and most of the people are unaware of the criminal laws under IPC(Indian Penal Code), therefore it becomes necessary to make the citizen aware of all kind of laws put forth by our constitution against crime so that people come forward to register case against it. In admin login, the admin add the laws of IPC and their respective crimes. Those laws are categorized into sections, there is also an options for managing the lawyer and clients ,and a news feed adding option were the users can mention their responses for that news feed also the clients and lawyers having the same option. In the client login, the client can view the lawyer details and also there is an option for viewing the current status of the lawyers. By providing a search option for clients, the clients can search the details of laws by giving some keywords. In lawyers login, there is search option is available for the lawyers for search the previous case history and it would be helpful for the lawyer. The lawyer can create chat platform with clients and also lawyer can demand the payment.

Key Words: Data Mining, Information Extraction, Social Networking, Laws, Android, Security.

1. INTRODUCTION

The Indian Penal Code (IPC) is the main criminal code of India. It is a comprehensive code intended to cover all substantive aspects of criminal law. Majority of people are unaware of the legal systems prevailing in the country and also of their constitutional rights. Even though people are aware of it, they are not in a situation to afford because of their economic and social backwardness. They are in a helpless situation to engage the services of legal counsel, which has become a costly affair.

This project intends to overcome all these problems. Through this we can improves the people's awareness about the Indian law's as well as this system act as a mediator between the clients and the lawyers. This also provides online support during the emergency situations like police checking, petty cases, warrant issue, etc. People and lawyer can add quotes as well as anyone can react to the quotes. Legal documents and judgments (past case histories) from different courts are available for the lawyers which would be helpful for lawyers for practicing and this facility is implemented using data mining technology.

2. LITERATURE SURVEY

[1] This project is easy to implement and it is technically well supported .The project maintains more number of lawyer details and law details so that for a user can easily view the lawyer and communicate them for queries. The various software requirements have been met. The user requirements have been satisfied. Adequate documents have been made and generated for future reference and maintenance. Finally, this application is useful to create awareness among the people based on laws. The project has covered almost all the requirement. Further requirements and improvements can easily be done since the coding in mainly structured or modular in nature. Improvements can be appended by changing the existing modules or adding new modules. Several areas to be developed in future, so the application must be upgraded for the new ones required and it is possible to modifications according to new requirements and specifications. In future, the law system can be implemented by increasing the number of laws and number of IPC sections .Statistical approach helps to better understanding about law. Searching of law according to repetitiveness provides efficient in search. Opinion polls gives interaction session not only a read only process. Timeline shares the current updates. Privacy helps for screening. Location based clustering and predictive statistics create social awareness rating. Existing approach gives read only website but we provide an application android platform.It can be the future model used by most of the users hence our ultimate motivation is to make our app to reach people in an interactive and user friendly way.

[2] The development of app described in present paper has given a strong understanding of various challenges associated with design and development of apps. The experience has been quite challenging, motivating as well as satisfying. connectify network App can be used by everyone conveniently for social and business purpose. Development was done making use of available tools, techniques and resources – that would generate a proper system for connectify network. While making the system, an eye has been kept on making it as user-friendly. The constraints are met and overcome successfully. The system is designed as it was decided in the design phase. The system is user friendly and gives a better feel of hassle free social networking experience. The application has

been tested with live data and has provided a successful result. Hence the software has proved to work efficiently.

[3] Android as a full, open and free mobile device platform, with its powerful function and good user experience rapidly developed into the most popular mobile operating system. This article gives a detailed introduction of Android application framework and the working principal of Android applications. Finally, a music player on the android platform was put forward as an example to illustrate this mechanism.

[4] This paper proposes creation an application messenger based on android system using a method prototype and google API to translate a language automatically. This application is built to save space storage capacity and lighten a processor for running applications that mentioned are implemented in the internal server. This application also shos the good performance in CPU, RAM, GPU and bandwith usage. In the future, the feature application can be added to get the more performance such as video call, map (provided map API), and so forth.

[5] In this paper, we presented the results of an extensive empirical study on local database related behaviors in mobile apps. Our study revealed several interesting observations. We found a large number of violations of many types of best practices regarding database usage in mobile applications. From a security perspective, we found that developers frequently use vulnerable APIs and patterns to execute and build SQL commands. A large number of these instances were avoidable and could be refactored to prevent SQLI attacks by using secure APIs or parameterized queries. From the energy/performance perspective, we found that database initialization and write operations are the most expensive. We also found that these operations appear frequently in loop structures, many of which are not properly batched in explicit transactions and can cause significant inefficiencies. Overall, our study provides interesting insights that give concrete guidelines for app developers to improve their apps and motivate areas for future research work in the software engineering community.

[6] In this paper we undergo comparison between Firebase, Mongo DB & Rethink. We came to the conclusion that -Real-Time Data Base System can also be defined as Traditional Databases that uses an extension to give additional power to yield reliable response. Since data is stored on cloud it is readily available any where. If your app does run of a centralized DB, and is updated by a lot of users – then it's more than capable of handling the Real-Time data updates between devices. We have studied about Google provided firebase API, Mongo DB & Rethink and their unique features along with drawbacks. By utilizing this feature, there is no necessity to make your own database or own API, real time database handles all

the components that usually come along with creating a backend for applications This study provides an extensive survey of different real-time systems research.

3. CONCLUSION

There were many types of law based apps and software's available in the online markets. Searching about the laws, searching previous case details, new case registrations, searching about lawyer, are the main features now available through these applications. But currently there is no applications which consist of all these features together. If a user need to access these features, user needs to download all these applications separately. It's a disadvantage in the existing system and the unavailability of an online interaction platform between lawyers and clients is also the disadvantage of the existing systems. Legal documents and judgments (past case histories) from different courts are available for the lawyers which would be helpful for lawyers for practicing and this facility is implemented using data mining technology.

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