

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 citizens aware of all kinds 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 search option available where user can find or search according to requirement by entering the query. In user login, the user can search for the laws based on the crimes. The user can view both the crime details and law details. It also provides lawyer details such as name of lawyer and location. This helps the user to know the crime and respective laws. The user can send queries related to laws and admin can view those queries and reply. The project " ANDROID LAW SYSTEM" is designed using Standard Android 4.0.3 platform. The platform used to develop the application is Eclipse IDE (Mars) with Java 1.6 Standard Edition.

Keywords: laws ,crimes ,android

INTRODUCTION:

The first step in the software development life cycle is the identification of the problem. As the success of the system largely depend on how exactly a problem is analysed. At present, the concept is implemented as android application. In existing system ,user is not aware of law minutiae and list of lawyer working on crime inquiry. Hence, if there is an application to maintain the lawyer and law details offline, then the law problem can be solved. The software used to solve the problem and develop the android application is Eclipse Mars IDE with Android as programming language and SQLite 3.

Android is an operating system (OS) designed basically for touchscreen mobile . It is based on the Linux kernel and currently being developed by Google. Android's user interface allows direct manipulation, using touch gestures, swiping, tapping and pinching, to manipulate objects on the screen, virtual keyboard for textual input. Applications that are more generally known as "apps", extend the functionality of devices. They are written using the Android SDK (software development kit) and mostly use the Java programming language which gives complete approach to the Android APIs. Eclipse is mostly an integrated development environment (IDE) that comprehend a base workspace and an extensible plug-in system that is used for customizing the environment. Eclipse is mostly written in Java and hence its primary use is for developing Java applications. In order to develop applications in other programming languages plugins are needed. The toolkit of Java, called as SWT, has graphical control elements that are enforced by Eclipse. It is seen that most Java applications make use of the Java standard AWT(Abstract Window Toolkit) or Swing. In order to provide an integrated environment to build Android applications we have a Google-provided plugin called ADT(Android Development Tools),for the Eclipse IDE. It helps the developers to create user interfaces, add Android Framework API based packages, debugging options using SDK tools, and in exporting signed or unsigned .apk files of appliances to be used by users. ADT is a freeware.

We have proposed to develop a system that provides an easily accessible android mobile application that forms the front end and a web gateway for the public. The crime would be shared over the application. The user can upload and search for laws. The user can receive suggestions from others where every user is provided with an

individual timeline and account. The crime posted in the timeline is used for finding the crime rate in a particular location.

MODULES:

The project consists of following modules.

ADMIN MODULE

ADD LAWYER

In this module admin adds lawyer details such as lawyer id, lawyer name, address, city, specification, mobile number mail id and password. These details are stored in lawyer table. Username and password for each lawyer is verified using this table.

VIEW LAWYER

In this module admin views the lawyer details. It contains information such as lawyer id, lawyer name, address, city, specification, mobile number mail id and password. These details are fetched from 'lawyer' table.

VIEW USER

In this module admin views the user details. It contains information such as user id, user name, address, city, mobile number mail id and password. These details are fetched from 'user' table.

LAWYER MODULE

ADD LAW

In this module each lawyer adds the law details based on his/her specification. It contains information such as law name, section and description. These details are stored in 'law' table. User can view the law details using this table.

VIEW QUERIES

In this module lawyer can view the query which is sent from the user. These details are fetched from 'queries' table. If a user add query to corresponding lawyer then this app sends notification to each lawyer.

REPLY QUERIES

In this module lawyer views the user queries and send reply message to that corresponding user. These details are stored in 'queries' table.

USER REGISTRATION

In this module admin adds user details such as user id, user name, address, city, mobile number mail id and password. These details are stored in user table. Username and password for each user is verified using this table.

USER MODULE

VIEW LAWYERS

In this module user views the lawyer details. It contains information such as lawyer id, lawyer name, address, city, specification, mobile number mail id and password. These details are fetched from 'lawyer' table.

VIEW LAWS

In this module user views the laws details based on specification. It contains information such as law name, section and description. These details are fetched from 'law' table.

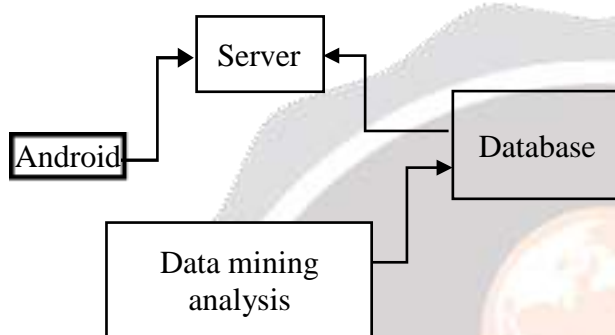
ADD QUERIES

In this module user can enter their queries. It contains information such as user id, user name, lawyer id, lawyer name, query details and entry date. These details are stored in 'queries' table.

VIEW REPLY

In this module the user can view the reply message that is sent from the corresponding lawyer. These details are fetched from 'queries' table. If a lawyer send reply message to user then this app sends notification to the corresponding user.

SYSTEM STRUCTURE



DATA BASE DESIGN

The most important consideration in designing the database is how information will be used. The main objectives of designing a database are,

Data Integration

In a database, information from several files are coordinated, accessed and operated upon as through it is in a single file. Logically, the information are centralized, physically, the data may be located on different devices, connected through data communication facilities.

Data Integrity

Data integrity means storing all data in one place only and how each application to access it. This approach results in more consistent information, one update being sufficient to achieve a new record status for all applications, which use it. This leads to less data redundancy; data items need not be duplicated; a reduction in the direct access storage requirement.

Data Independence

Data independence is the insulation of application programs from changing aspects of physical data organization. This objective seeks to allow changes in the content and organization of physical data without reprogramming of applications and to allow modifications to application programs without reorganizing the physical data.

CONCLUSION

It is concluded that the 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 is 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.

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