Minor Project- Report

Aug-2019-2020

Course Faculty: Prof Anupama VP

Course Name & code: Database Management System 18CS4DCDBM

Semester: 4thSemester

Date: 20th May 2020

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| TITLE OF THE PROJECT | Criminal Database Management System | | | |
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| USN | 1DS18CS140 | 1DS18CS102 | 1DS18CS103 |  |
| INDIVIDUAL  CONTRIBUTION | Backend | UI design | UI design |  |
| GUIDE | Prof Anupama V P | | | |
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| PROJECT ABSTRACT : | The present world is technology driven as it is employed by many fields in the performance of their operation. In the case of law enforcement agencies, this is evident in the use of automated Criminal Database Management System(CDMS) worldwide to keep record of crime and criminals involved. Crime being an act against the law of a society is a threat to the well-being of the populace and so, it requires efficient and effective monitoring. For this reason, CDMS has been developed, to achieve this purpose. However in Bengaluru, it is majorly manual, which is the use of pen and paper. These records are therefore susceptible to destruction from pests and uncensored manipulation by both authorized and unauthorized personnel. This crude method has resulted in problems in the areas of authenticity, security retrieval storage, and exchange of information within the department. This research aims to design and implement a computerized real time data (CDMS). In developing this CDMS, the ER diagrams and the schema diagrams are used so that even a common man can understand the constructed tables. The system was implemented using Android Studio a perfect IDE for android app development and firebase to provide 1GB of free database for the storage of criminal data. The CDMS enhances efficiency in correcting the problems earlier stated and it is an effective tool for easy analysis of data which will improve Bengaluru law enforcement operations. | | | |
| PLATFORM USED  (H/W & S/w tools to be used | Android studio and Firebase  Android studio IDE for developing Java, XML based interface.  Firebase platform to create and store unstructured data. | | | |
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| Introduction | In modern day, crime is increasing day by day. To combat such crimes and to provide safety to citizens, police department plays a vital role. It is their responsibility to arrest any criminal who is a threat for the safety of the society. After registering an FIR, the police starts its work. And on that basis, it arrests the criminals. If proofs are found against him/her. Once a person is arrested, the investigation process begins.  Once all proofs and evidences are collected, the police must present the person to the court. So that the guilty person must be sentenced with the punishment he/she deserves. This procedure is reduced to some extent if there is a platform where cases, criminals, police officers, court details all are available in same place. This is the idea of this project. | | | |
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| Design | The Design of this project is kept quite simple.   1. The login screen consists of a simple design and two textfields for email and password. 2. The main Contents of the app is kept as a Dashboard. And these contents are of the type ImageButtons. 3. Contents of the app are :  * Cases * Police * Criminals * Court\_Details  1. Case Section contains the complete details of all the cases which are Registered, Solved, Pending. 2. The Police section contains the list of officers. 3. Inside Court section, the layout is divided into three section namely *National*, *State, District*.  * National level contains the Supreme Court. The decisions taken in this court appear here. * Similarly, State and District consists of their respective courts. * The plus button in the end indicates a new hearing in which a person is declared as a criminal by the court, and sentenced to punishment. * Once the hearing is done, that hearing appears in it’s respective section i.e. National or state or district.  1. A person declared as Criminal with a specific Punishment is now added to the Criminal list. And hence in this section, the list of Criminals in obtained. | | | |
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| Project Source Code Link (Github/ Google DRive) | <https://github.com/Agnyathavasi/CriminalDatabaseManagementSystem> | | | |
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| Conclusion /FUTURE ENHANCEMENT | 1. To Connect the tables such that on clicking on officerid in criminal list, the user is navigated to the details of that particular officer. 2. To enhance the security of the app. 3. To add another section called help desk through which citizens can get guidance. 4. To enhance UI of the app so that it becomes attractive. | | | |
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| Ui sCreenshots | C:\Users\vishw\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Screenshot_2020-05-19-02-05-35-54_ea984ed1e0684add5287ef8aacfed34c.png  C:\Users\vishw\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Screenshot_2020-05-19-02-05-04-22_ea984ed1e0684add5287ef8aacfed34c.pngC:\Users\vishw\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Screenshot_2020-05-19-02-05-12-52_ea984ed1e0684add5287ef8aacfed34c.png | | | |