MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA246 – MAIN PROJECT

PRO FORMA FOR THE APPROVAL OF THE FOURTH SEMESTER MAIN PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Main Project Proposal No : ____1____ _____	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : SECURITY ENHANCEMENT OF FORENSIC EVIDENCES USING BLOCKCHAIN
2. Name of the Guide : Prof.Hyderali k
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
ARCHANA AP	MES20MCA-2010	

Date: 16-04-2022

Approval Status : Approved / Not Approved

Signature of Committee Members

Comments of the Guide Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of HOD

SECURITY ENHANCEMENT OF FORENSIC EVIDENCES USING BLOCKCHAIN

ARCHANA AP

Introduction & Objectives:

Crimes are one of the most predominant problems that is happening in most of the urban areas in the world. There are a lot of different types of crimes that happen, including robbery, theft of vehicles, etc. As crime increases, the investigation process gets longer and more complicated. The use of information mining methods helps in resolving most complicated criminal cases. Crime mapping is conducted and funded by the Office of Community Oriented Policing Services (COPS). Evidence based research helps in analyzing the crimes. We calculate the crime rate based on the previous data using data mining techniques. We can identify the highest risk crime zones with the help of data mining techniques.

To identify the frequent crime pattern in a particular area for assisting police and helps in reduction and prevention of crimes by providing patrol in hotspot areas. To store details of crimes and criminal that make efficient retrieval whenever needed. In the proposed system crime records including crime name, place, date, time and details of criminal like name, photo, place etc. are given, a table displaying place and frequently occurring crime pattern on each places are predicted.

For more security use the BlockChain technology. In this paper blockchain based secure system for forensic evidences is proposed. All the uploaded evidences and the uploaded report are stored in block chain.

Apriori Algorithm

Apriori is an algorithm for frequent item set mining and association rule learning over relational databases. It proceeds by identifying the frequent individual items in the database and extending them to larger and larger item sets as those item sets appear sufficiently often in the database.

Modules Description

We implement this crime pattern Application with the help of 2 modules basically. They are:

- Admin
- User
- Police
- Forensic

1. ADMIN

- Login
- Manage crime types
- Manage crimes
- Manage criminals
- Manage stations
- Allocate complaint to police
- Add & manage police and forensic
- View complaints
    - View evidence uploaded
    - Send message
    - Update complaint status
- View registered users
- View criminal found reporting

2. PUBLIC USER

- Register
- Login
- View police stations
- View crime types
- View crimes
- View criminals
- Report a criminal found
- Make a complaint
    - Upload evidence (if any)
    - View complaint status
    - View message

3. POLICE

- View allocated case
- Update status
- Request
- Upload evidence
- View feedback

4. FORENSIC

- View request
- Status update
- Upload report
- View history