

**MINI PROJECT – II**  
**(2018-19)**  
**E-COPS**

**SYNOPSIS**



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***PROBLEM STATEMENT:***

Common man faces huge problem while dealing with police station related work whether we talk about time, hesitation or lack of trust. E-Cops is an initiative to help the local people to solve their problem in a systematic, legal and in an easy way. In this we can file a report, FIR or upload evidences in the form of images, videos etc online.

***REASON FOR SELECTING THE TOPIC:***

While seeing the increase of various kinds of crime like harassment, robbery, murders, kidnaps etc in our society, this motivate us to develop this application not only for public welfare but also to help the government and local cops to work systematically and properly.

***OBJECTIVE:***

- To save time and work of the police and local people.
- A step towards adopting legal approach to minimize crime.
- Help common people.
- Reducing corruption

***FEASIBLE STUDY:***

This project contains applications of android which in turn is the most feasible, reliable and modernize approach to deal with application designing.

***FUTURE SCOPE:***

We can deploy this in market by making contacts to near by police station by using GPS tracing and location system which make this application to reach as many people as possible starting from state to national level.

***METHODOLOGY:***

We will first develop the user interface of our application. In this, we have user registration and login for our application. We will also have facility of hotline news reports, most wanted persons, crime reports etc. on our first page of our application. We can also use the chatting facility to get enquiry from nearby police station.

We can also upload images or videos of the reporting crime.

***REQUIREMENTS:*****a) Hardware:**

- 4 Gb RAM
- 500 Gb Hard disk
- I3 processor

**b) Software:**

- Android Studio 3.2
- Git Hub and Git
- Latex
- Balsamiq
- Firebase and Sqlite
- Markdown

***TESTING:***

**1. Black Box Testing:**

Black box testing, also known as Behavioral testing, is a software testing method in which the internal structure/design/implementation of the item being tested is not known to the tester. These tests can be functional or non-functional, though usually functional.

**2. White Box Testing:**

White box testing is also known as Clear Box Testing, Open Box Testing, Glass Box Testing, Transparent Box Testing, Code-Based Testing or Structural Testing) is a software testing method in which the internal structure/design/implementation of the item being tested is known to the tester.

***CONTRIBUTION OF THE PROJECT:***

This will create an approach to deal with crimes in a digital, easy and convenient way to reduce the crime rate, hesitation of the people and more and more trust of the local people towards law and police.

***SCOPE OF EXTENSION INTO MAJOR PROJECT:***

In future we can use Image recognition instead of using heterogeneous database more over High speed, accuracy and non-redundant data are the main advantages of the proposed system. In the proposed system the user is provided with a choice of data screen, which are similar in formats to the source documents. Data entry errors can be minimized through validity checks. After the verification only the data are placed in the permanent database. The software can be developed further to include a lot of modules.

***CONCLUSION:***

The project titled as “E-Cops” is an android application. This application provides facility for reporting online crimes, complaints, missing persons, show most wanted person details mailing as well as chatting. This app is developed with scalability in mind. Additional modules can be easily added when necessary. The software is developed with modular approach. All modules in the system have been tested with valid data and invalid data and everything work successfully. Thus, the system has fulfilled all the objectives identified and is able to replace the existing system.

The project will be completed successfully with the maximum satisfaction of the organization. The constraints are met and overcome successfully. The system is designed as like it was decided in the design phase. The project gives good idea on developing a full-fledged application satisfying the user requirements.

The system is very flexible and versatile. This app has a user-friendly screen that enables the user to use without any inconvenience. Validation checks induced have greatly reduced errors. Provisions have been made to upgrade the application. The application has been tested with live data and has provided a successful result. Hence the application has proved to work efficiently.