



Crime mapping and Analysis of Bengaluru City.

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Problem Statement

Providing an easier way to map and keep track of crime happening in the city with the giving a common citizen an ability to post complaints online. This project aims to map the crime articles to their location such that the user/police can view the crime articles just by selecting the crime type besides providing a frequency based map of crime happening in the city which will help the concerned authorities to keep a check on the area where the crime rate is high thus aiding them to take necessary steps to reduce the crime.



Web App Design

The Web app is build in such a way that it has two views:

1. User View
2. Department View(Concerned Authority)



Design Continued...

1. User View
 - This view will be accessible by anyone.
 - A person will first have to register himself with the platform to be able to use the portal
 - Options like posting complaints can be done by providing the necessary details.



Design Continued...

2. Department View(Concerned Authority View)

- The concerned authority will be able to see the mapping of crime articles to their location.
- A area wise crime frequency using Google maps and Graphs
- View the complaints posted by the common citizens.



Architecture Description

1. The application is build in the MVC(Model View Controller) pattern.
2. The application is based on the Client - Server architecture.



Technology Used

1. HTML, CSS, Javascript, JQuery, Bootstrap for building the UI.
2. Ajax for making the request to server for validating the user credentials, posting complaints etc.
3. Server Side Events for notifying the admin if there are any complaints posted by the user.
4. Flask Python Framework for building the backend.
5. Sqlite3 database for storing the data.
6. Google Maps for displaying the mapping.
7. BeautifulSoup for scraping the data.
8. NLP (Natural Language processing tools) for getting the location from an articles.
9. REST apis for transferring the data between web services.

Thank you