PUBLIC COMPLAINT SORTING USING BLOCKCHAIN

ASWATHY V

MES20MCA-2012

PRODUCT OWNER: DR.GEEVAR ZACHARIAS

TABLE OF CONTENT

- Introduction
- Modules
- Methodology
- Data Flow Diagram
- Table Design
- Developing Environment
- Product Backlog
- User Story
- Project Plans
- Sprint Backlog
- Sprint Actual

INTRODUCTION

- This Project is used to resolve problem in less time and to keep track on all process which will going on after registering particular complaints. Municipal authorities and users both will get notifications from each other. To develop this system, we use image processing.
- System is providing platform for citizens where they can report problems, share ideas and suggestions. It will be helpful to collect valuable source as feedback from citizens. It will be helpful to resolve posted problems in limited time.
- The main purpose of the system to resolve problem in less time and to keep track on all process which will going on after registering particular complaints. Municipal authorities and users both will get notifications from each other.

MODULES

1. ADMIN

- Admin can view users .
- They can add & manage department.
- They can add & manage officers.
- They can view feedback given by the users.
- They can view department wise complaints given by the users but they can't replay to the complaints.
- Taking actions against officers these who don't respond the complaints.
- View officer rating .

2. OFFICER

- The officer will be added directly by the admin .
- The officer who can view the complaints given by the users and can replay for the complaints.
- Officer can change their password also .
- Update info to block chain .
- View officer rating .

3. USER

- Users can register by themselves.
- They can send complaints & view the respective department.
- Send feedback.
- View complaints status.
- View officer rating.

METHODOLOGY

BLOCK CHAIN

Block chain is a system of recording information in a way that makes it difficult or impossible to change , hack or cheat he system . All the complaints and information is stored in block chain . Block chain is a record keeping technology designed to make it impossible to hack the system or forge the data stored on it , thereby making it secure and immutable .

CONFIGURATION OF BLOCKCHAIN

- Truffle
- Truffle is the most developing tooling for Ethereum programmers. Easily deploy smart contracts and communicate with their underlying state without heavy client side programming. An especially useful library for the testing and iteration of Ethereum smart contracts.
- It is used to create configuration files and complete block chain.
- First install node to create files for block chain automatically. Through this create contract that contain sol files. Sol files contain the information that we want to pass into the block chain. This concept is called Smart Contracting.

Ganache

Ganache is a high-end development tool used to run your own local block chain . It act as a server to see the info that pass to the block chain .

OPINION MINING

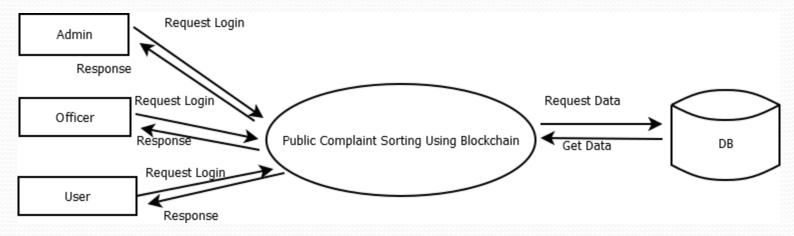
This is a popular way for organizations to determine and categorize opinions about a product, service, or idea. It involves the use of data mining. In a way that identifies opinions about each department or staff become data mining included opinion mining.

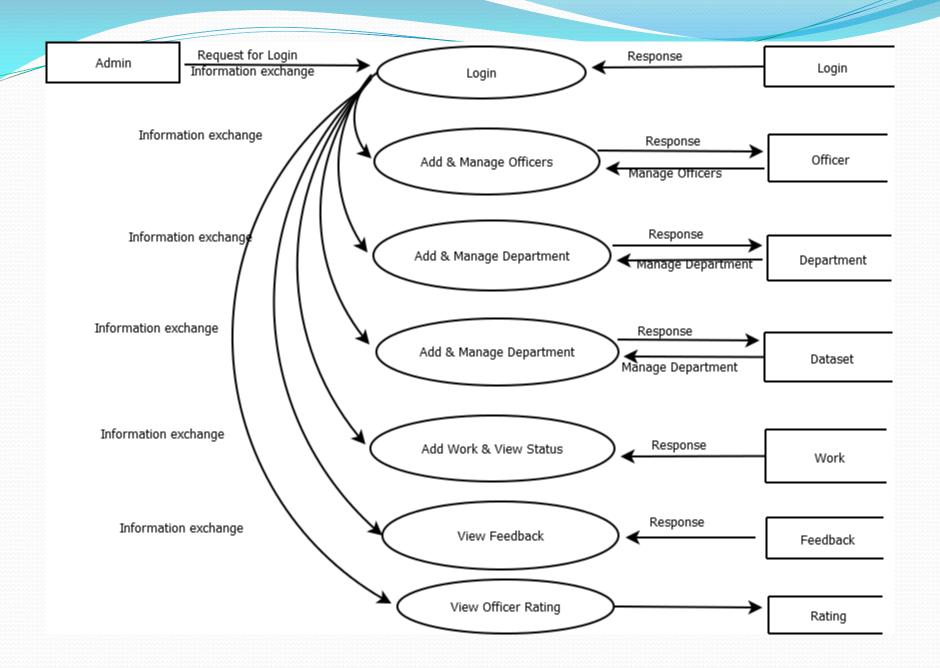
SENTIMENT ANALYSIS

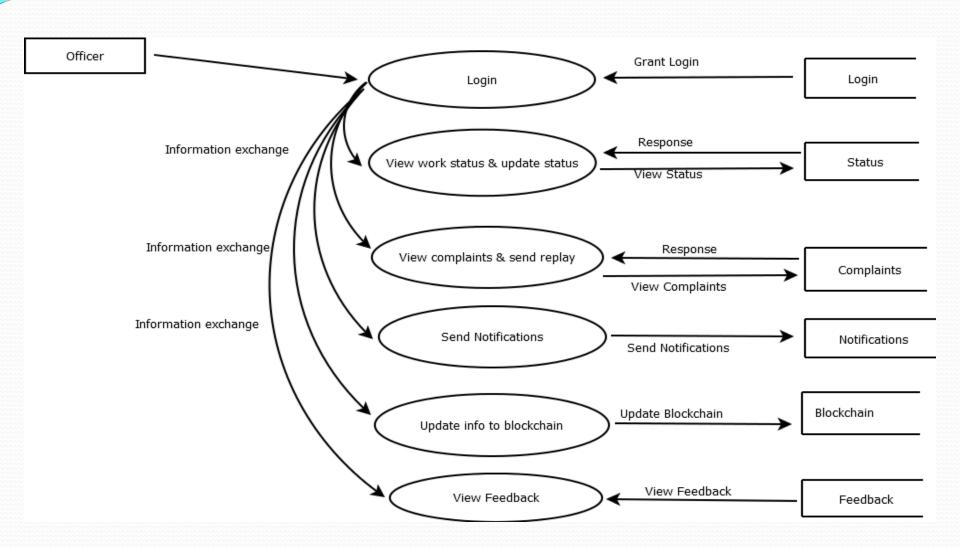
Sentiment analysis is used to determine whether a given text contains negative, positive or neutral emotions. It's a form of text analytics that uses natural language processing (NLP) and machine learning. Sentiment analysis also known as "Opinion mining" or "Emotion artificial intelligence".

DATA FLOW DIAGRAM

LEVEL 0







LEVEL 3

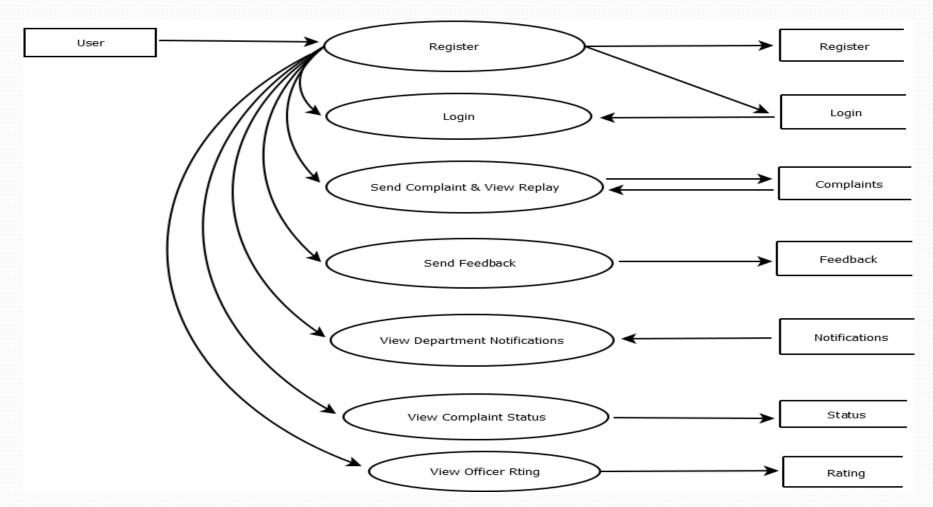
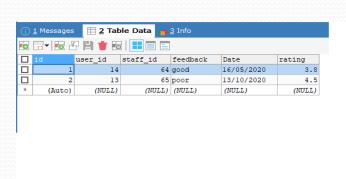


TABLE DESIGN

Staff_Feedback



DEVELOPING ENVIORNMENT

SOFTWARE REQUIRMENTS

- Operating System : WINDOWS 10
- Front end : HTML,CSS,JAVASCRIPT
- IDE Used : Jetbrains Pycharm , Android Studio
- Technology Used : Python Java
- Frame work used : Flask

PRODUCT BACKLOG

User Story ID	Priority (H/M/L)	Size(Hours)	Sprint <#>	Status(plann ed/progress/ completed)	Release Date	Release Goal
1	Medium	8	1	Completed	1/5/22	Staff feedbck table designing
2	High	10	2	Completed	15/5/22	Staff_feedbac k form designing
3	High	6	3	Completed	28/5/22	Blockchain management
3	Medium	5	4	Completed	1/6/22	Blockchain implementati on
4	High	5				

USER STORY

User Story ID	As a <type of="" user=""></type>	I Want to	So that I can
1	Admin	Rating	View officer rating
2	Officer	Feedback	View feedback
		Block chain	Update info to bock chain
3	Users	Status	View complaint status
		Rating	View officer rating

PROJECT PLAN

User story ID	Task Name	Start Date	End Date	Days	Status
1	Sprint 1	20/04/2022	1/05/2022	18	Completed
2		4/05/2022	15/05/2022	18	Completed
3	Sprint 2	17/05/2022	28/05/2022	11	Completed
4		29/05/2022	1/06/2022	11	Completed
5	Sprint 3	2/06/2022	5/06/2022	5	Completed
6	Sprint 4				In progress
7	Sprint 5				Planned

SPRINT BACKLOG

Back log item	Statu s & comp letion Date	Origi nal Estim ation Hour s	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12
User Story #1,#2			Hrs	Hrs	Hrs									
Table Desig n	1/05/ 22	8	1	1	1	2	0	1	1	0	1	0	0	0
Form Desig n	15/05 /22	9	1	1	1	2	0	0	1	1	1	0	0	0
Basic Codi ng	15/5/ 22	10	1	3	0	1	1	0	1	0	0	3	0	0
User story #3,#4														
Block chain mana	28/5/2	6	1	1	0	1	1	2	0	0	0	0	0	0

SPRINT ACTUAL

Back log item	Statu s & comp letion Date	Origi nal Estim ation Hour s	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	
User Story #1,#2															
Table Desig n	1/5/22	9	1	1	1	2	0	1	1	0	2	0	0	0	
Form Desig n	15/5/2 2	9	1	1	2	0	0	1	2	0	0	0	0	0	
Basic Codi ng	15/5/2 2	10	1	3	0	1	1	0	1	0	0	3	0	0	
User story #3,#4															
Block chaim Mana	28/5/2	6	1	1	0	1	1	2	0	0	0	0	0	0	

THANK YOU.....