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Clean India web app

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ABSTRACT

The project aims to create a web-app with the name 'CIW: CLEAN INDIA WEBAPP'. In a country like India, citizens face a lot of issues such as cleanliness problem. As being an Indian we thought of bringing a change that would make India a better place. The people who want to help in clean India mission by making it clean, can take an initiative to upload the particular area's picture and to post on the CLEAN INDIA web-app. Waste is generated in such a manner that people are finding ways of disposal advancement is going in India day by day, but still there are many places that are polluted by the waste and are not appropriate for living on which then they can make complaints to the municipal corporation or committee of that area. Through this web-app further municipal- corporation will take steps to instruct their employed workmen to clean the particular area.

Keywords: Clean, UML Diagrams, Webapp, and Use Case.

1. INTRODUCTION

Cleanliness is next is Godliness. The major motivation behind developing this website is for the betterment of the society. This will not only help our surroundings to be clean and beautiful, but also make people aware about how to keep their city clean. Municipal Corporation will do the needful work on time. This way, anybody (citizens) can assess the work of the municipality and people will also understand their duties as a citizen.

2. PROCESS MODEL ADOPTED

Incremental Process model

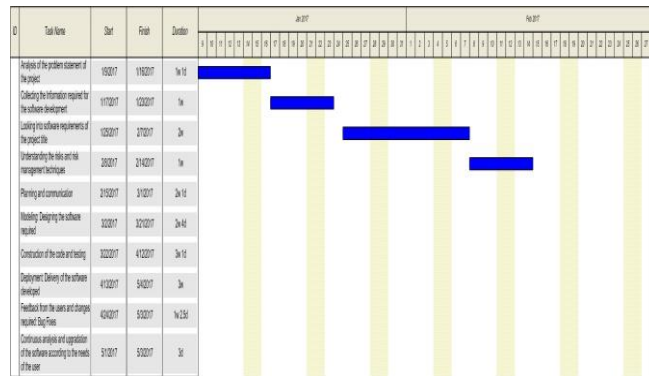
In this situation, initial software requirements will be reasonably well defined, but the overall scope of the development effort precludes a purely linear process. In addition, there may be a compelling need to provide a limited set of software functionality to users quickly and then refine and expand on that functionality in later software releases. Hence, I decided to use this software process model for my project to produce software in increment.

When an incremental model is used, the first increment is often a core product. That is, basic requirements are addressed but many supplementary features (some known, others unknown) remain undelivered. The core product is used by the customer (or undergoes detailed evaluation). As a result of use and/or evaluation, a plan is developed for the next increment. The plan addresses the modification of the core product to better meet the needs of the customer and the delivery of additional features and functionality. This process is repeated following the delivery of each increment, until the complete product is produced.

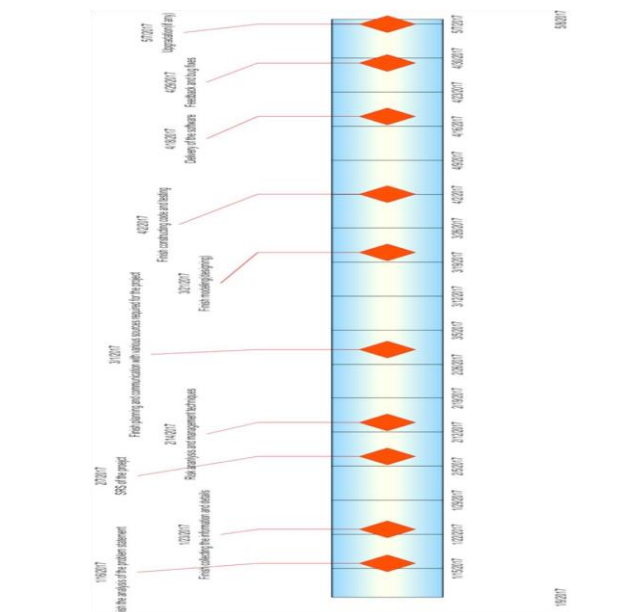
3. SCHEDULING CHARTS

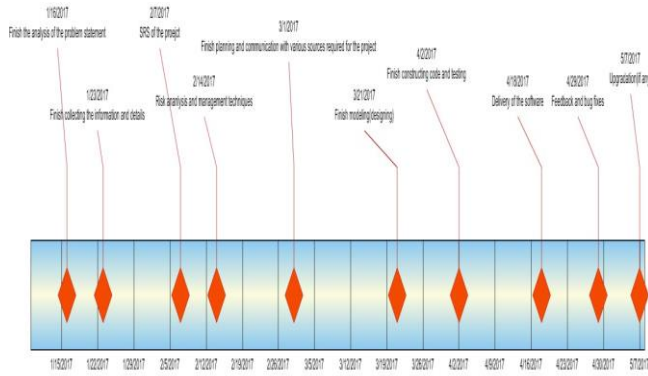
A. GANTT CHART

ID	Task Name	Start	Finish	Duration
	Analysis of the problem statement of the project	1/9/2017	1/16/2017	1w 1d
	Collecting the Information required for the software development	1/17/2017	1/23/2017	1w
	Looking into software requirements of the project title	1/25/2017	2/7/2017	2w
	Understanding the risks and risk management techniques	2/8/2017	2/14/2017	1w
	Planning and communication	2/15/2017	3/1/2017	2w 1d
	Modeling: Designing the software required	3/2/2017	3/21/2017	2w 4d
	Construction of the code and testing	3/22/2017	4/12/2017	3w 1d
	Deployment: Delivery of the software developed	4/13/2017	5/4/2017	3w
	Feedback from the users and changes required: Bug Fixes	4/24/2017	5/3/2017	1w 2.5d
	Continuous analysis and upgradation of the software according to the needs of the user	5/1/2017	5/3/2017	3d



B. TIMELINE CHART



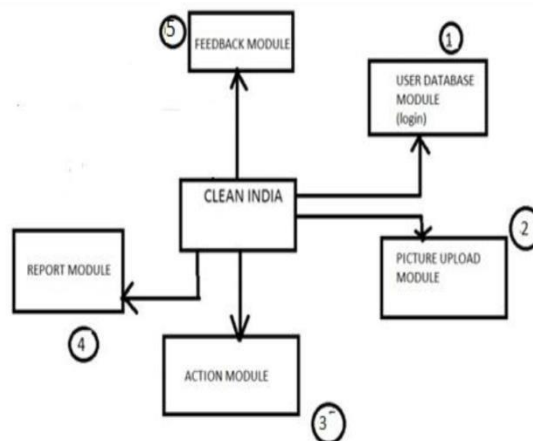


C. RISK MANAGEMENT PLAN

Risk	Types of Risk	Effect of risk	Level of Risk	Action plan
Size estimate may be significantly low	Project risk	Effect the efficiency of the website	High	
Larger number of users than planned	Process risk	Less efficient servers, lead to crash of websites	Very high	Large servers and good workers
Less reuse than planned	Project risk	Degradation of the website and resources used	High	Promotion of the website
End-users resist system	Project risk		Very high	
Funding will be lost	Process risk		High	
Technology will not meet expectations	Project risk		Medium	
Lack of training on tools	Project risk	The website will not be efficient and hence the end users will tend to not believe in	Medium	Define work product standards and establish mechanisms to be sure that all models and documents are developed in a timely manner
Staff inexperienced	Project risk	The website will not be efficient and hence the end users will tend to not believe in	High	Assign a backup staff member for every critical technologist Conduct peer reviews of all work
Will user agree to	Customer	This may	Medium	Mechanisms

spend time in formal requirements	related risk	lead to less use of the project and people will be less interested		to improve the webpage look. This may help people develop interest
Facilities not available at required time	Product risk	Lead to rage in users and site might not get good reviews	High	24-hr workmanship
Delays in software modifications	Process risk		Low	Efficient working staff and 24-hr manager
Nonresponsive or unsupportable software	Project risk		Medium	Intelligent staff, dedication
Staff turnover	Project risk		High	Backup staff
Failure to address priority conflicts	Process risk	Rage amongst users	Medium	Fast action
No communication in team	Operational risk		Medium	Proper meetings and discussions to be held
Government rule changes	Process risk		Medium	
Project ambiguity	Project risk		Medium	Clear idea about the requirements
Organizational instability	Project risk		Medium	
Failure to gain user involvement	Product risk	Bad reviews for the website	High	Promotion of the website

4. MODULES DISCUSSION



A. USER DATABASE MODULE (LOGIN)

Users have their own database system as individual accounts. Individual login feature, such that anyone can access the website.

Functional requirements of USER DATABASE MODULE:

- The users can view the posts of various other people, their reviews, comments etc.(user)
- A record is maintained which helps the user to refer to his previous complaints and their details.(user)

B. PICTURE UPLOAD MODULE

Anyone can upload the picture of the location to be cleaned with its details on the website.

Functional requirements of PICTURE UPLOAD MODULE:

The users can upload pictures of the places that has to be cleaned by the municipal corporation, through their own account by logging into it.(picture)

C. ACTION MODULE

Once they view the picture, then they can instruct the municipal corporation of a particular area to get that area cleaned, they can complaint to the higher authority. Now Municipal Corporation will order the labors to clean that area.

Functional requirements of ACTION MODULE:

- The system should generate a record of all the complaints that has been received in a week.(action)
- The system should maintain a record of the details of the places that are cleaned and has to be cleaned (which are still not taken care of) which are present in the complaint list (action).

D. REPORT MODULE

This module helps the citizens to report about the actions of municipality, about how they responded to their complaints.

Functional requirements of REPORT MODULE:

- The system shall maintain a record of the reviews received from the complainers about the service and timely availability and response of the municipality.

E. FEEDBACK MODULE

After getting that area cleaned we can put some feedbacks also.

Functional requirements of FEEDBACK MODULE:

- The municipal corporation employers who take care of this app, and get the details of the places that have to be cleaned have their own employee_id, and password for accessing the database.

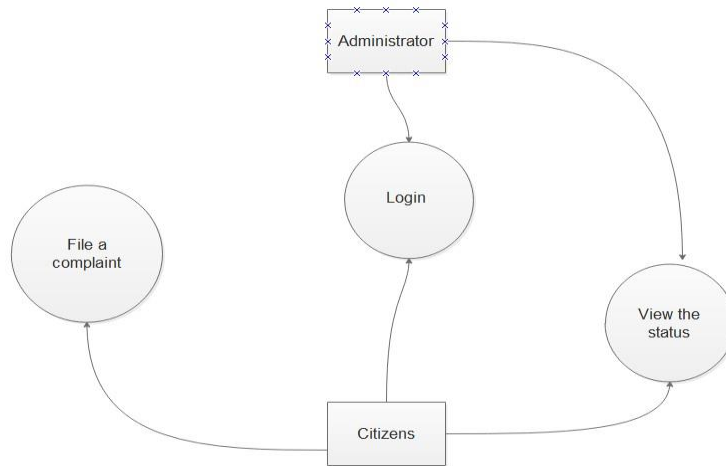
5. GUIDESIGN



Fig: Home page of the web-app

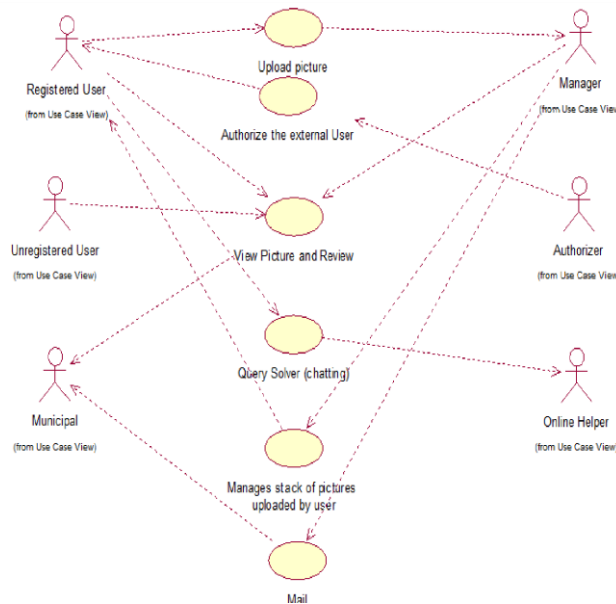
Fig: Sign-in/log-in page

6. DATAFLOW DIAGRAM

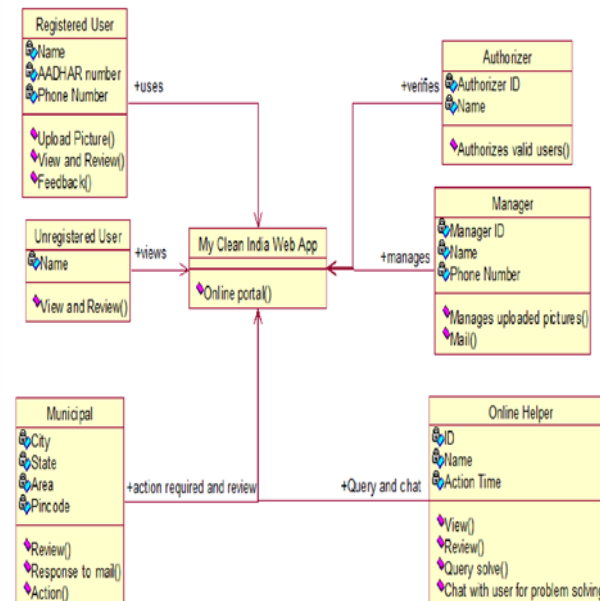


7. UML DIAGRAMS

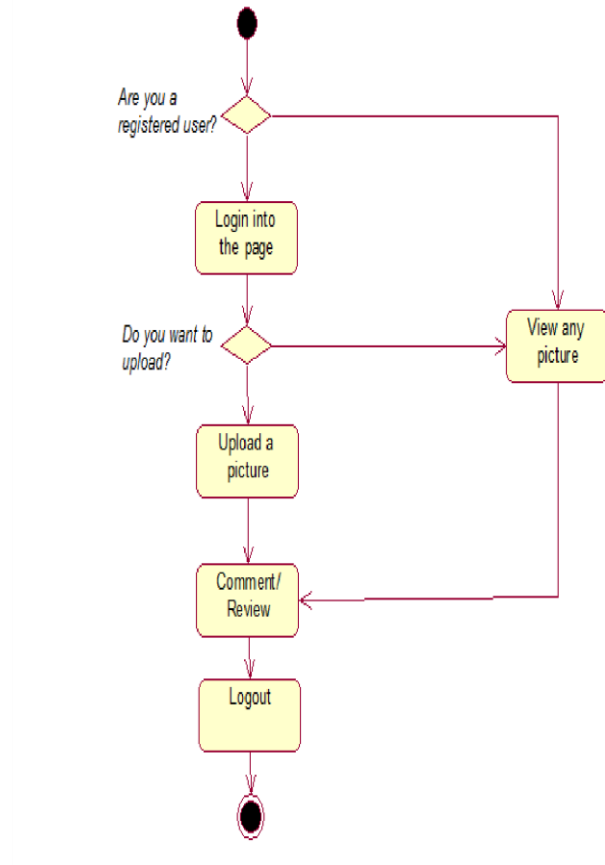
A. USE CASE DIAGRAM



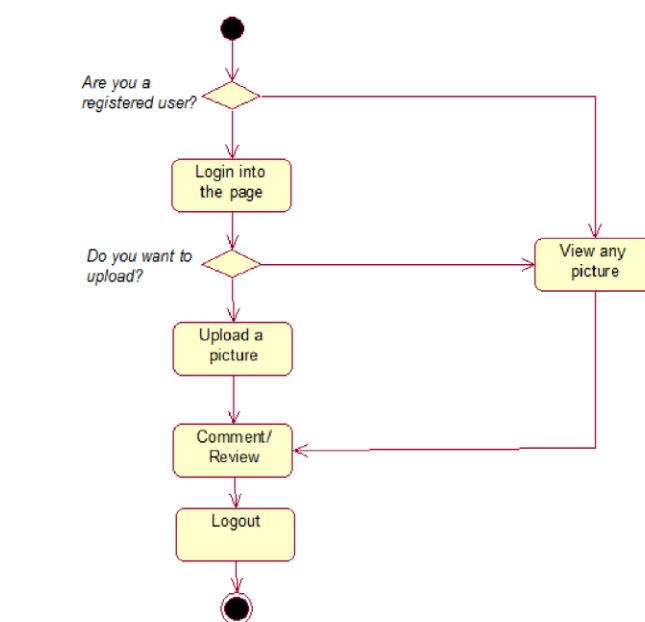
B. CLASS DIAGRAM



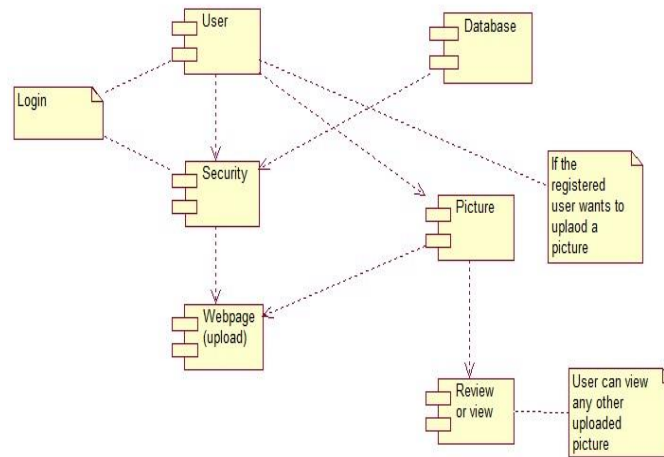
C. ACTIVITY DIAGRAM



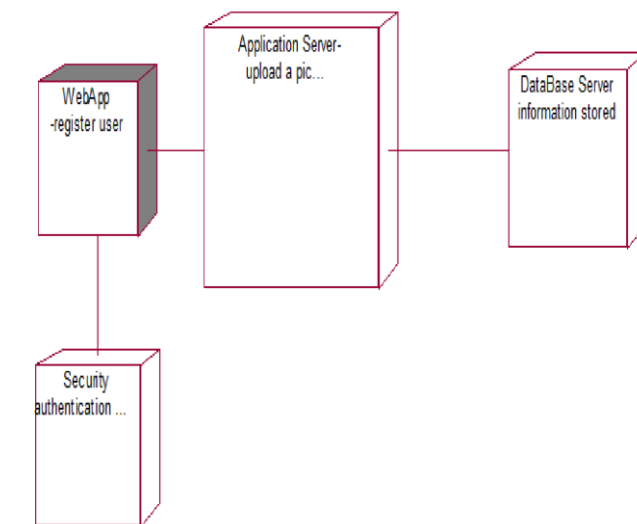
D. SEQUENCE DIAGRAM



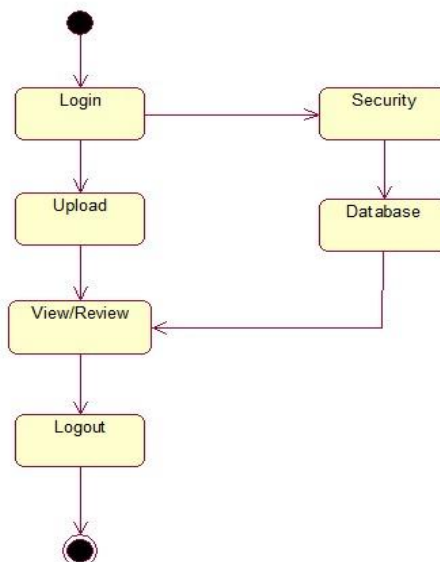
E. COMPONENT DIAGRAM



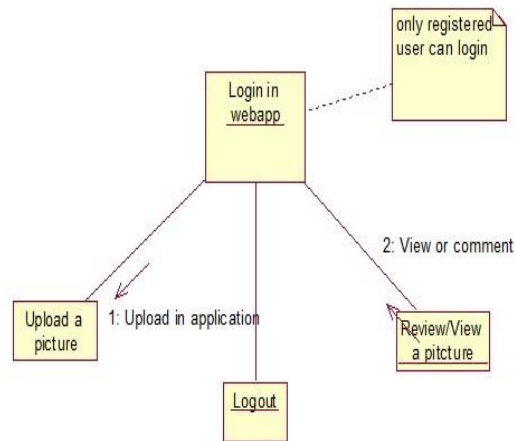
F. DEPLOYMENT DIAGRAM



G. STATE MACHINE DIAGRAM



H. COLABORATION DIAGRAM



8. CONCLUSION

India is a developing country. But as we are developing, we are facing issue in such a way that it is hard for an individual to survive in this country.

As a citizen of our country, we thought of bringing a change that would make India a better place.

Issue- waste is generated in such a manner that people are finding other ways of disposal.

Advancement is going in India day by day, but still there are places that are degraded by the waste and are not appropriate for living.

Hence people want that area to be clean, but they don't want to get involved.

So they can take an initiative to upload the particular area's picture and to post on the web app and then can make complaints to the municipal corporation of that area.

Further, the municipal corporation will take steps to instruct the labors to do the specific task.

9. REFERENCES

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