WEB APPLICATION BASED WASTE MANAGEMENT SYSTEM

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APPROVAL

This Project titled "**Waste Management System Using Web Application**", submitted by **Mahuya Afrin**,**Ashikur Rahman** and **Shafiqul Islam** has been accepted as satisfactory for the partial completion for B.Sc. Degree in Computer Science and Engineering Department,Daffodil International University and its style and contents has been approved. The presentation was held on May 31.

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DECLARATION

We hereby announce that, this project has been undertaken by us under the supervision **Tania Khatun, Senior Lecturer, Department of CSE** Daffodil International University. We further declare that this project or any part of this project has not been submitted for any degree or diploma elsewhere.

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ABSTRACT

There are many types of web applications to make people's lives easier. One of them is to provideour project is Waste management System Using web application. This project will be able to contribute to the process of manage and dispose of wastes of city . Bright towns amalgamate environmentally friendly, proficient and workable waste regulation method. The waste collection system includes waste trucks on a daily or weekly basis which simply collects the waste in each area of the city which will make management much easier.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

We know that our environment is getting polluted day by day which is making us mentally and physically ill. In some cases, waste can pose a threat to human health and also our environment. For example, waste is generated by people for industrialization, urbanization, improvement of living standards, etc.Most people are not concerned about waste. That is why waste management is not done properly.

Waste Management System is a system that will mainly focus on environment and keeping it clean in this era of globalization. This system can collect a large amount of waste every day and offer to provide better solutions to the citizens for the inconvenience of waste removal.

1.2 Objective

- Creating effective waste management to ensure environmental protection.
- The applicability of waste management systems to temporary storage, disposal and recycling, recycling is discussed.

1.3 Motivation

At present (2012) waste growth in Bangladesh is about 22.4 million tons per year. Waste growth rate is growing day by day and estimated to touch 47,064 tons in 2025. We have learned that Bangladesh will need proper waste management. That's why we decided that we would create a website in which we could exit in a timely manner. The Department of Waste Management will be able to properly monitor

swhether the waste is being discharged properly Now is the time for Technology. This in the current situation everything is being digitalization for manage waste.

1.4 Expected Outcome

- Ensuring access to the Internet.
- Trying to collect large amounts of data.
- Making the project user friendly so that everyone can use it well.
- To develop this project, need to better skilled in the other fields.
- peoples and waste management authority get good benefit from this site.

CHAPTER 2
BACKGROUND

2.1 Introduction

An application for waste management is a web application that can provide the necessary action for proper disposal of waste from its beginning to its end.So, we made a proposal to collect a waste, which will fill the garbage bin, dispose of them and maintain the details of registration with the authority.Information will be provided to the general user whenever they collect information from the authorized bin and request from the database. Information will be given normal user about the local fraught can and the approved person will be provided with the filled cans. User will have an internet connection so that they can easily access the website.There will be separate sections for easy understanding for the user and for the authority. In this system the user will send a request to the incomplete nearest bin with his address and the authorized person will be informed by the filled bins with the address. It helps in easy observation.

2.2 Related Works

More researchers in waste management have researched and developed new applications for creating smart cities.Most of these do not match our system. However, we have tried to focus on special features to add those benefits to our system. These are:

GitHub: GitHub is a popular project. Many effective as management tools and effective. It is also very popular all over the world. It is not for ordinary people. It is mainly effective for developers.

Stack overflow: One of the most popular bugs is the stack overflow. As popular as it is for issue tracking websites,it phased out the number one position for free act of assistanceto the developing community.

2.3 Challenges

Everything in our life goes through challenges. In the end, I also faced multiple objections to my project. Here are a few challenges.

- Make sure the site has a strong database.
- The website is difficult to manage.
- Confirm user's information, driver'sinformation and others.
- More publicity.

CHAPTER 3

DESIGN REQUIREMENTS

3.1 Design Requirement Collection Analysis

Over there also some issues and very expected requirements was collecting over the implement for data collection

1. Use case model remains like Admin, Users, Driver.
2. Valid email is required to register and reset password.
3. Also need anaccount log in for uses.
4. Everyone can login and view this project.
5. Every user is at a different time to message/request separately.
6. Admin can control everything.

3.2 Use case model

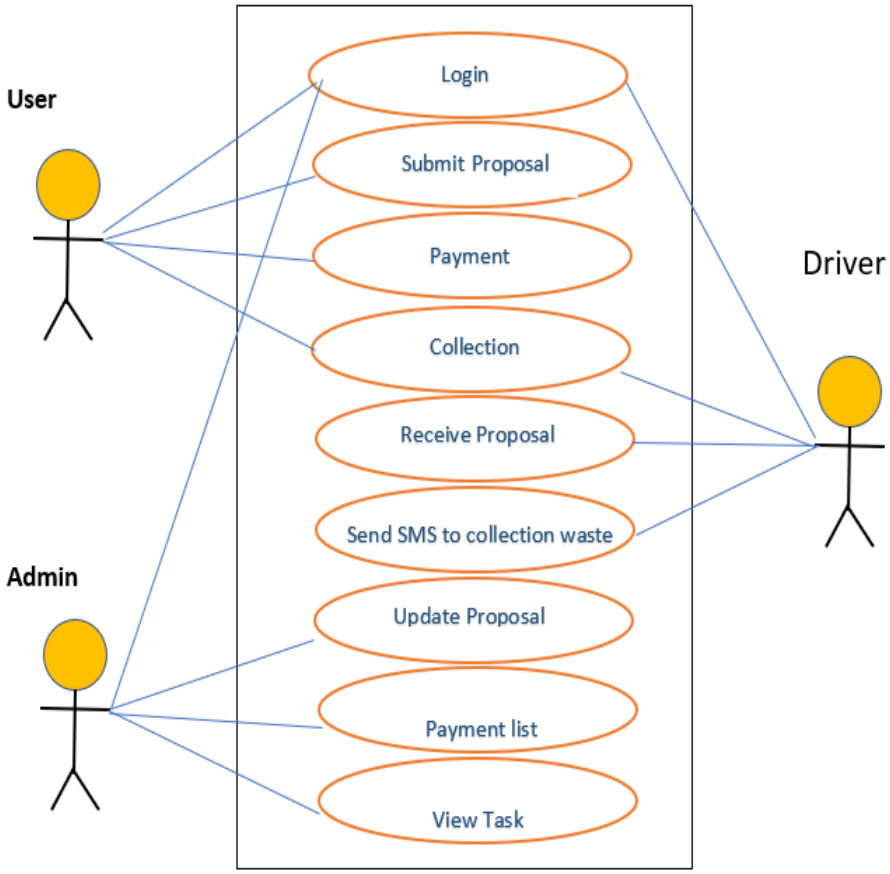

Fig. 3.2 Use case model

3.3 Business Process Model

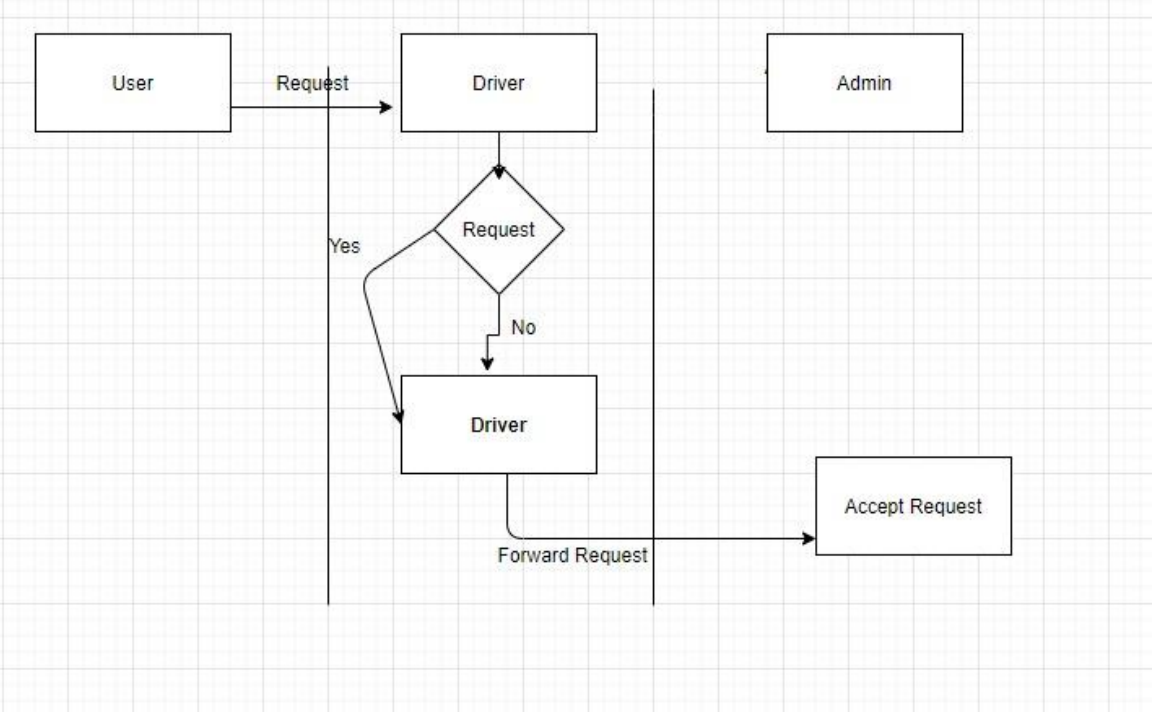

Fig. 3.3 Business process model

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-End Design

Presentation level in a website is called front end design. The beauty of the webpage is highlighted. Front end design HTML, CSS, JavaScript are used. The user can easily see the development site. This is very important for website development. The first step in website development is front end design. I created a front-end design for all users to easily connect to the software.

4.1.1 Home Page

Here is the home page of my project.

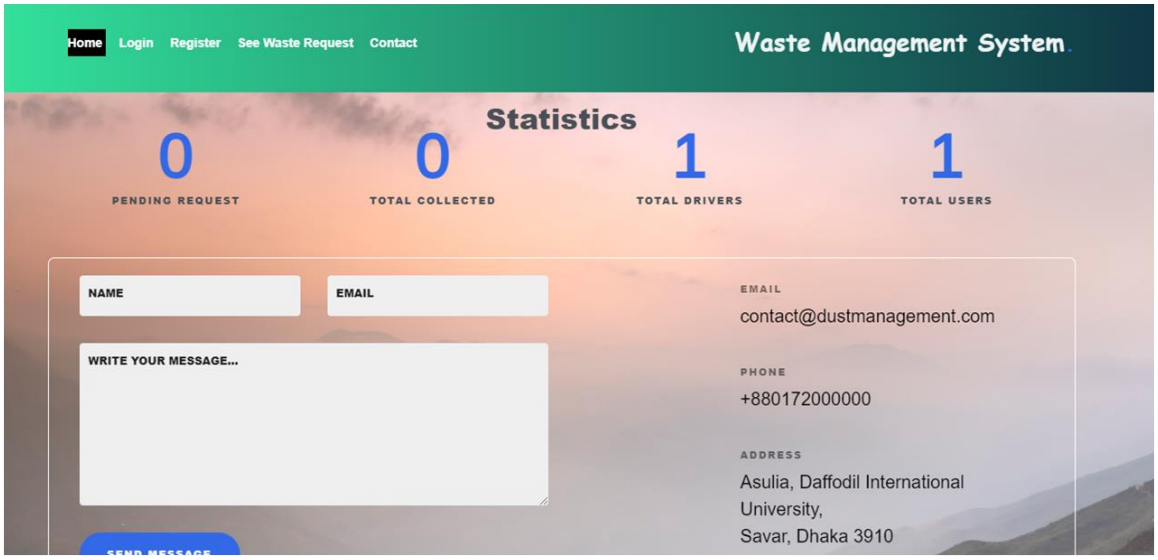

Fig. 4.1.1 Home page

4.1.2 Admin & Driver and User login panel

Here is the Admin & Driver and User login page of my project.

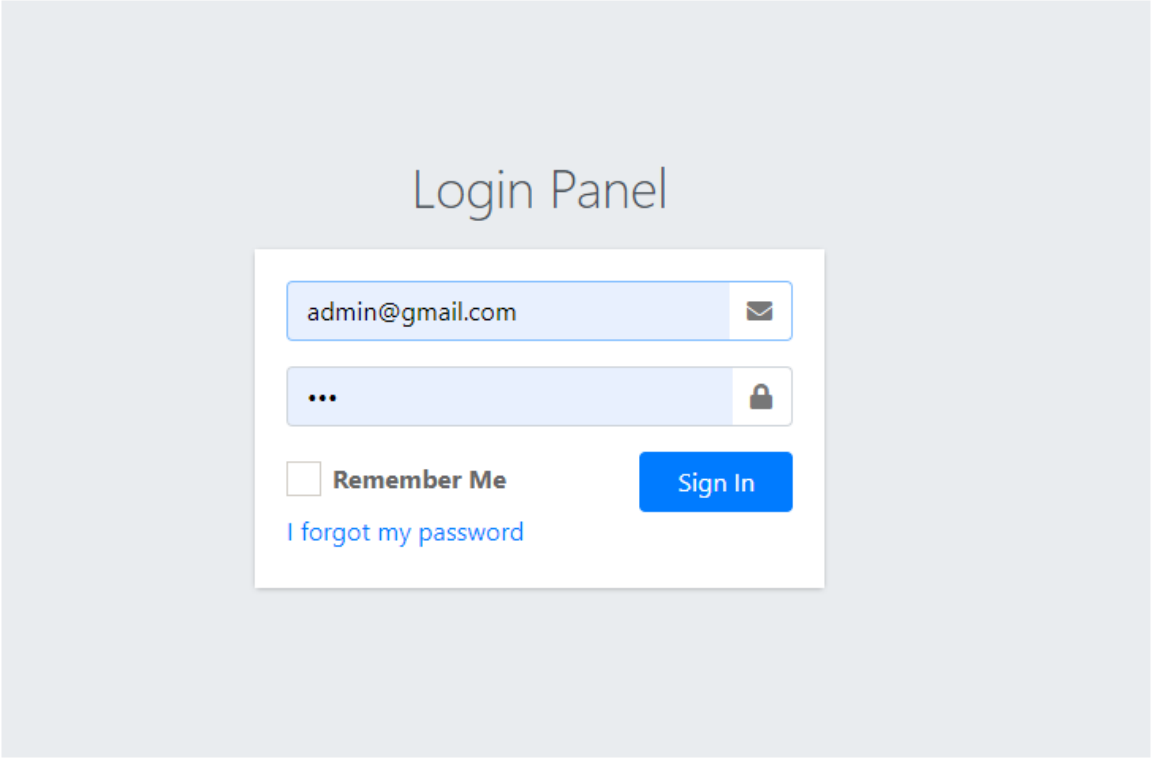

Fig. 4.1.2 Admin & Driver and Users login panel

4.1.3 Admin & Driver and User Register panel

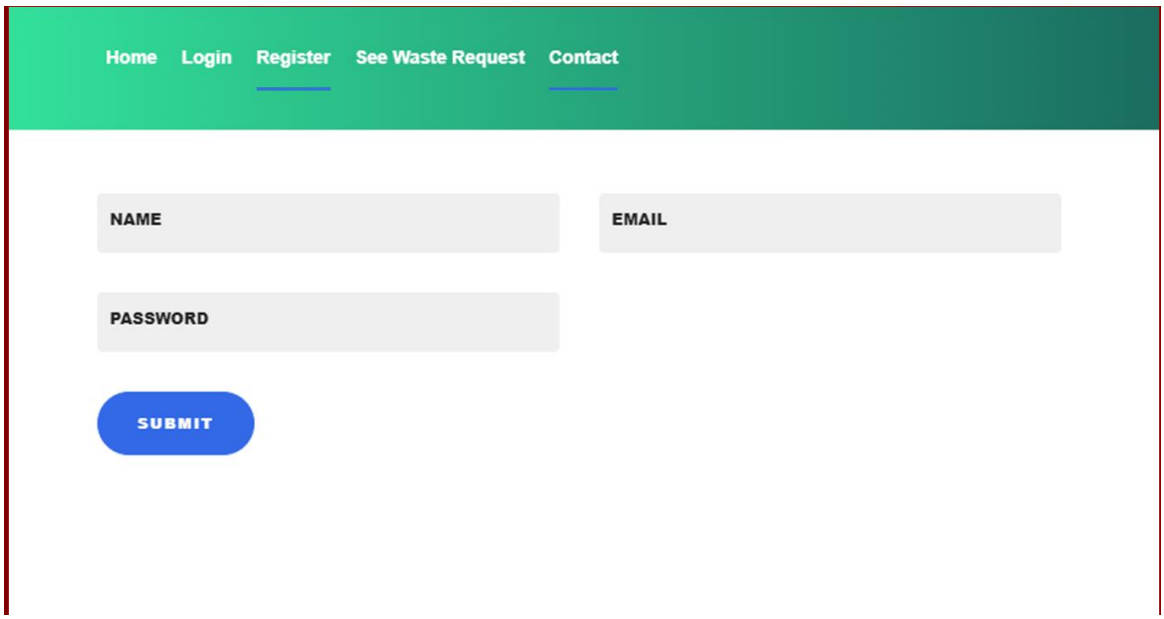

Fig. 4.1.3 Admin & Driver and Users register panel

4.1.4 Request List

Here is the request page where see the waste request list.

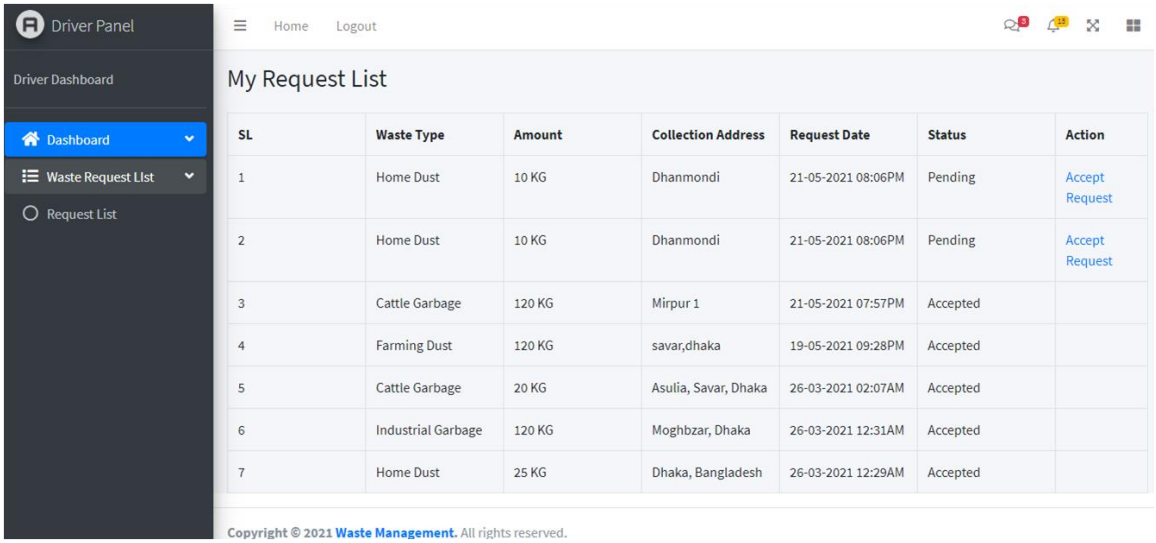

Fig. 4.1.3 My request list

4.1.5 My Payment List

Here is the payment paid list

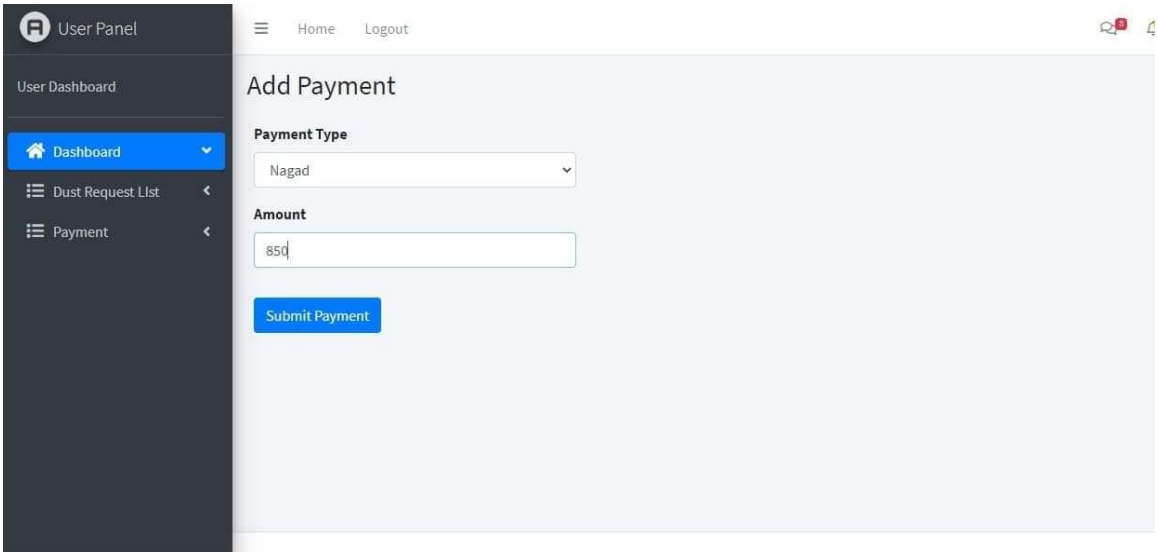

Fig : Payment option

4.2.1 MySQL

MySQL is the most popular application. It is an open-source database. Everyone uses this database. This database can communicate with many variety of programming language like PHP, Python, Java, C # etc.

4.3 Implementation requirements

- The project needs to run as a language of web programming using raw PHP.
- My sql is propose database.
- The hosting service should be a Linux based server.
- Failed to login to database store.
- JavaScript is used to validate the form.
- Laravel Framework has been used for front end design.

CHAPTER 5
IMPLEMENTATION AND TESTING

5.1 Implementation of Database

Database is used to provide information on user's page based on the request. We have used MySQL to save data for more requests for easier use and management.

- Install the database management software and it implementation.
- Operation in this method.
- To create Database and Data Table.
- combination with application.

5.2 Implementation of Front-End Design

We also have a backend and frontend for conversations with this app. The first page has some menus and visuals as well as some more layouts with some text. Again, the most important part of the website is placed in the navigation menu. Where the user can easily go to different sections of the application by clicking with the mouse.

5.3 Interaction Implementation

Here I have implemented useful UI for the knowledge of the best candidates to create my system. I use icon, text link and button to make things easier in this project. This project is user affable.

5.4 Testing Implementation

This method is a way,that testing a system's performance, where the tester or system builder will check at the example and determine if it is applicable whether if there are any restrictions.

CHAPTER 6
CONCLUSION AND FUTURE WORK

6.1 Discussion and Conclusion

Finally, our waste management system using our web application is done. Clean and hygiene are one of the most important issues in all the people of the society. If we want to build a beautiful environment, we must build beautiful management.

6.2 Future Work

The web is modern technology. This technology allows anyone to access the Internet from anywhere from a computer or smart device. We may add more features to this app in future.

- Android and iOS applications can be created for support systems.
- Creating a live chat system.
- Creating a payment system.

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PLAGARISM REPORT

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