



Karachi Institute of Economics and Technology
College of Computing and Information Sciences
FINAL YEAR PROJECT – 2021
PROPOSAL

SEMESTER	FALL 2021	YEAR	2021-2022
TITLE OF PROPOSED PROJECT			
Waste Management System			
Project Category (choose one)		<input type="checkbox"/> Product based <input type="checkbox"/> Research-based	
SUPERVISOR INFORMATION			
Supervisor Name:	(leave blank)	Organization/ Designation	(leave blank)
Contact No:	(leave blank)	email:	(leave blank)
STUDENT(S) INFORMATION			
S#	Student ID	Name	
1	9782	Mohammad Suhail	
Contact No:	03152147532	email:	Mahommadsuhail20@gmail.com
2			
Contact No:		email:	
PROJECT AREA/TOOLS			
Tools Required:	Windows 7 or higher, XAMPP/WAMPP Server or Live Domain. Front-end: HTML5, CSS3, JavaScript, Vue.js Back-end: Laravel 9 + MYSQL Database		
Area/Specialization:	This Project is Completely Web-Based or Web Application. It Responsive For all Devices like: Mobile or Tablet.		
SUMMARY OF PROPOSED PROJECT (MAXIMUM 300 WORDS)			
<p>The Internet of Things (IoT) is a concept in which surrounding objects are connected through wired and wireless networks without user intervention. In the field of IoT, the objects communicate and exchange information to provide advanced intelligent services for users.</p> <p>This project deals with the problem of waste management in smart cities, where the garbage collection system is not optimized. This project enables the organizations to meet their needs of smart garbage management systems. This system allows the user to know the fill level of each garbage bin in a locality or city at all times, to give a cost-effective and time-saving route to the truck drivers.</p>			
PROJECT OBJECTIVE(S)/OUTCOMES			
<ul style="list-style-type: none">The proposed system would be able to automate the solid waste monitoring process and management of the overall collection process using IOT (Internet of Things).The Proposed system consists of main subsystems namely Smart Trash System (STS) and Smart Monitoring and Controlling Hut (SMCH)In the proposed system, whenever the waste bin gets filled this is acknowledged by placing the circuit at the waste bin, which transmits it to the receiver at the desired place in the area or spot.In the proposed system, the received signal indicates the waste bin status at the monitoring and controlling system.			

FUNCTIONAL FEATURES

For FYP 1:

- **City administration** needs an understanding of the big **picture**, **generating reports**, **control** over **pricing** etc.
- **District administrations** are interested in **controlling** the process of **waste collection**, checking the quality of service (all waste collected, all in time, waste **collected** cleanly, waste **transported** to special places), quick and legal ways for solving disputes and problems. Receiving Payments with just one Click
- **Municipalities** can also deploy and **maintain** smart city **infrastructure** like capacity sensors in waste bins and **wireless** networks for data transferring.
- **Managers** of dumps and recycling factories can publish their **possibilities** or needs in acquiring a certain amount of waste for storing or recycling.

For FYP 2:

- **Staff** that is **responsible** for trash bins in the current yards needs communications with **waste management companies** and **truck drivers**.
- **Road police** can get reports about inaccurate car parking that leads to the **impossibility** of waste collection.
- **Citizens** want to have better service, lower cost and having easily accessible **reports** on what has been done and how much it cost

For Proposal Defense Purpose

PROPOSED ADVISORY COMMITTEE

S#	Faculty Name	Signature
1		
2		
3		
4		

FYP Committee

FYP COMMITTEE			
S#	Member(s) Name	Designation	Signature
1	Usman Khan (FYP Coordinator)	Lecturer	
2	Mr. Kashif Bashir / Mr Ayub Latif (Head of the Department)	Asst. Professor	
3	Dr. Muhammad Khalid Khan (Director CoCIS)	Professor	
Date		00/00/0000	