

**Project Design Phase-I**  
**Solution Architecture**

Date	19 September 2022
Team ID	PNT2022TMID35789
Project Name	Project – Smart Waste Management For Metropolitan Cities
Maximum Marks	4 Marks

**Solution Architecture:**

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- To monitor the amount of waste in dustbins using level sensors.
- These sensors are interfaced with a micro-controller which is interfaced with a GSM module which will transfer the collected data to the cloud server.
- Usage of routing algorithms to find the best route for the filled dustbin.
- The proposed methodology communicates the amount of waste in the dustbin using level sensors to the desired user.

**Solution Architecture Diagram:**

