Project Design Phase-II

Technology Stack (Architecture & Stack)

Date: 25 June 2025

Team ID LTVIP2025TMID34101

Project Name Clean Tech

Maximum Marks 4 Marks

Technical Architecture:

Clean Tech utilizes a modular, scalable architecture designed for smart waste classification. The system comprises waste detection units with cameras, edge processors running image classification models, a central monitoring dashboard, and cloud storage. Data from multiple sources is collected, processed using transfer learning-based image classifiers, and categorized into waste types.

Table-1 : Components & Technologies:

Table-2: Application Characteristics: