

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	Please Enter the date
Team ID	Please Enter your Team ID
Project Name	Garbage Classification Using Deep Learning
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

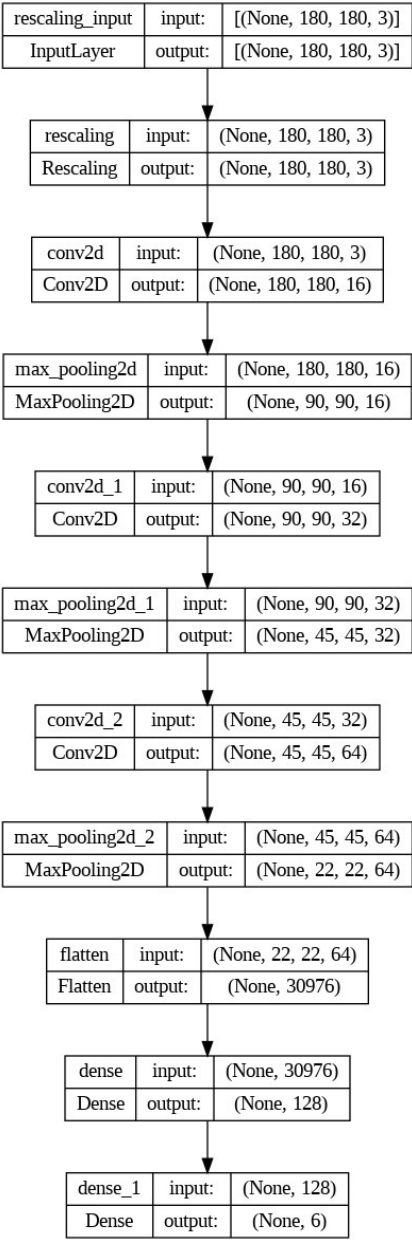


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML, CSS, JavaScript.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Database	Collect the Dataset Based on the Problem Statement	File Manager, Kaggle
4.	File Storage/ Data	File storage requirements for Storing the dataset	Local System, Google Drive
5.	Frame Work	Used to Create a web Application, Integrating Frontend and Back End	Python Flask
6.	Deep Learning Model	Purpose of Model	CNN (Sequential Model).
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local

Table-2: Application Characteristics:

S.N	Characteristics	Description	Technology
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1.	Open-Source Frameworks	List the open-source frameworks used	Python's Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions
3.	Scalable Architecture	Three-tier architecture scales efficiently by separating presentation, logic, and data layers, allowing independent scaling and enhanced performance.	3 – tier (Database, Application, Presentation)
4.	Availability	Will go over potential distribution after evaluation	Local Systems

S.No	Characteristics	Description	Technology
5.	Performance	Applicable after public deployment	NA