**Project Design Phase-I**

**Solution Architecture**

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| Date | 23 October 2023 |
| Team ID | 592350 |
| Project Name | Deep Learning Model for Eye Disease Prediction |

**Solution Architecture:**

It optimizes the garbage classification process by leveraging CNNs for real-time image-based classification. It not only enhances sorting accuracy but also improves the efficiency of waste management operations, contributes to recycling efforts, and reduces the environmental impact of waste disposal. The continuous learning loop ensures that the system adapts to evolving waste streams and maintains high classification accuracy. Our solution leverages Convolutional Neural Networks (CNNs) to address the garbage classification problem effectively.

● Data Gathering

● Image Preprocessing

● Model Building

● Waste Material Prediction

● Real Time Analysis

**Solution Architecture Diagram:**