Smart Bin

*Mobile App to Show Fill Levels of all Bins in Any area*

PROJECT REQUIREMENTS DOCUMENT

v.0.1

Revision History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Serial No. | Revision | Date | Author | Feature |
| 1 | 0.1 | 1.09.2015 | Ananya Jana | Initial Draft |
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# 

# 1. Introduction

The intent of this project is to create an app to show the fill levels of garbage bins in any area.

# Purpose of this document

To have a clear understanding of the objectives of this project by developers.

# Scope of the Project

The initial version of the product should have at least the base features – showing the fill levels of garbage bins in any area, showing the optimal path in google map to collect the garbage bags from high fill level garbage bins, showing different kinds of data analysis on the fill level, humidity data e.g. fill patterns of bins in a locality in a given time range, comparison of the fill patterns of multiple garbage bins etc. The app should also have provision for emailing these analysis reports.

The initial version of the product should be ready by 1st October.

# Definitions, Acronyms and Abbreviations

N/A

# References

N/A

# 1.5 Overview of the Remainder of the Document

In the rest of this document will cover the detailed description of the various functionalities of the app, assumptions and the constraints (if there is any), user roles and responsibilities etc.

# 

# 2. General Description

# 2.1 Product Perspective

# 2.2 Product Functions

Functional Requirements

Non-functional Requirements

Interface Requirements

# 2.3 User Characteristics/Roles and Responsibilities

This app will be used mainly by NGOs or BBMP for quick detection of almost full garbage bins and collection and garbage from them. They can

# 2.4 General Constraints

# 2.5 Assumptions & Dependencies

# 2.6 Security

# 2.7 Auditing

# 2.8 Administration/Customization of Application

# 2.9 Reporting

# 2.10 Performance

# 2.11 Usability

# 2.12 Concurrency