

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

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Technical Architecture:

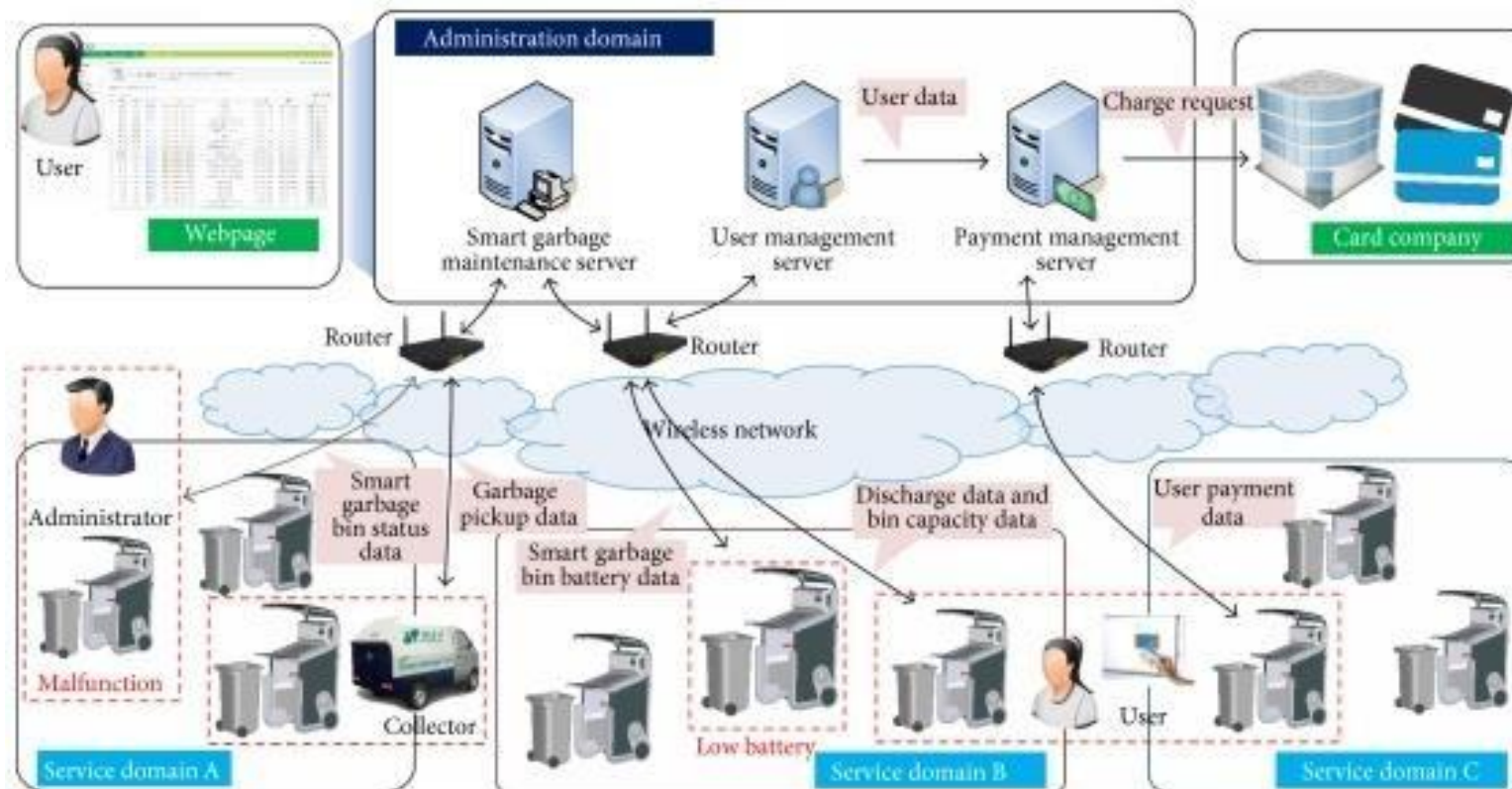


Table-1: Components & Technologies:

| S.No | Component | Description | Technology |
|------|---------------------------------|---|--------------------------------|
| 1. | User Interface | Mobile Application | HTML, CSS, JavaScript. |
| 2. | Application Logic | Logic for a process in the application | Java |
| 3. | Database | Data Type, Configurations etc. | MySQL |
| 4. | Cloud Database | Database Service on Cloud | IBM Cloud |
| 5. | File Storage | File storage requirements | Local Filesystem and IBM cloud |
| 6. | Infrastructure (Server / Cloud) | Application Deployment on Cloud Local Server Configuration | Local and Cloud Foundry |

Table-2: Application Characteristics:

| S.No | Characteristics | Description | Technology |
|------|--------------------------|--|--------------------------|
| 1. | Open-Source Frameworks | GitHub | Internet hosting service |
| 2. | Security Implementations | Application security: Veracode Firewall: cisco | Network automation |
| 3. | Scalable Architecture | It provides the room for expansion more database of smart bins added additionally can be updated. | Cloud storage |
| 4. | Availability | As the system control is connected to web server it is available 24*7 and can be accessed whenever needed. | Server |
| 5. | Performance | Performance is high it uses 5mb caches | Wireless Sensor Network |

