# Use Case

Version 1

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| **Use Case ID** | UC- 001 |
| **Use Case** | Cleaning System |
| **Use Case Purpose** | Provides the overview of the Smart Cleaning System |
| **Use Case Description** | User trigger the ON/OFF switch on the device. The system will check the battery if there is enough power then will find the dust and clean it otherwise indicates error message. |
| **Assumptions** | There should be an active internet connection on mobile and the on the cleaning device. |
| **Variations** | Instead of directly press the ON/OFF switch on the machine user can control the system through the mobile app. |
| **Trigger** | User trigger the ON/OFF switch. |
| **Primary Actors** | User/Customer |
| **Secondary Actors** | Cleaning device |
| **Pre-Conditions** | Devices should be connected to the internet. |
| **Normal Scenario** | 1. User Switch ON device 2. Device checks the battery 3. Device find the dust. 4. Device continuously clean surface and avoid obstacles. |
| **Extension points** | 4a. In step 4, if the system has accumulated obstacle   1. System turn left if obstacle is on right. 2. System turn right if obstacle is on left. 3. System turn in either direction if obstacle is on front. |
| **Alternate Scenario** | 2a. In step 2, if the system has accumulated low battery   1. System will indicate error if battery is low 2. Customer charges the system 3. Use Case resumes on step 4. |
| **Post Conditions** | Success end condition  Surface is cleaned  Failure end condition:  System crashed  System battery exhausted  Minimal Guarantee  Indicate error |
| Special Requirements | Performance  The device should clean the entire room in one charge.  User Interface  The interface of the machine should be simple and functional.  Reliability  The system should be reliable enough to ease the human effort instead of make it worse. |