System for procuring statistical data in a community

Toilets govern aspects such as dignity, self-esteem, personal hygiene and public health that can prevent urban conflicts. Access to toilets, as a part of sanitation, is one of the several social challenges that the Indian government and NGOs are struggling to find sustainable solutions for. It is estimated that over 1.5 million people, about 40% of the population of Pune, live in slums with very little access to public utilities and sanitation facilities.

A community toilet built by a social enterprise in an urban slum wants to **measure** impact by **counting** number of people who are using their toilets or baths. The infrastructure can be compared to any Sulabh Sauchalaya design where there is a premises **main door** and then separate toilets and baths.

You need to design a system which can be placed on the premises main door which gives us the headcount of people going in (flux). The device should be able to send data through GPRS to a cloud server.

Timeline

Idea Proposal (give a link to the Idea Proposal section)	January 10th, 2016
Mentorship Kicks off! (give a link to the Mentorship section)	20th January **OR** As soon as your idea is selected (whichever is earlier).
Submission of final report	7th February, 2016
Presentation in Apogee, technical festival of BITS Pilani (give a link to the Presentation section)	February 25th – 28th , 2016
Implementation Phase (give a link to the Implementation section)	Based on the preferences of the organization (if providing an internship) and student