

### **1.How it all started:**

- A. Once while walking around near a park, wanting to throw garbage into a dustbin, we could not find a dustbin, and even though after a few kms there was a dustbin, it was so dirty we did not want to touch the lid of the dustbin. Thus, we started thinking of this problem. When we thought about it more we found a lot of statistics regarding segregation and challenges surrounding the proper disposal and segregation of waste.
- B. Even though there are dustbins out there on the street and proper collection strategy by the government in place, people do not throw garbage into the dustbin, one of the reasons for doing so was because of the dirt, tobacco stains and hygiene of the dustbin, people did not want to throw garbage into a dustbin where they have to touch the dirty lid. Other than that people are less aware of the segregation policies in place, most of the dustbins out there do not have segregator, even if they do the dustbin lids are open and have an unbearable smell and thus they are a host to multiple diseases

### **2. Support from college, teachers, reviewers:**

- a) Constant support and guidance from the guide and both the reviewers. Whenever we wanted feedback, the guide, and the reviewers always dropped their views.
- b) College (which includes the HOD and exam section) supported us during rescheduling the exams when we had to participate in both the events. That encouraged us more to represent our college in such events.

### **3.Challenges ( individual, group):**

- 1. Final project review :  
Due to this pandemic, our project review had been conducted virtually. Since ours is a hardware project, we were supposed to show the working demonstration of our project. It was quite challenging for us to show the demonstration because we had left all the hardware/electronic gadgets at the hostel and it was not possible to get them back because of lockdown. At the end we found the solution for our problem. We had collected all the photos and videos that we had made during our project and made a video for a demonstration
- 2. IISF 2019 and Exams on the same days:

Our Project Idea was selected for India International Science Festival 2019(IISF 2019) under the Young Scientist Conference event. The IISF 2019 Event was going to happen from Nov 5th, 2019 to Nov 7, 2019. To participate in that conference we were supposed to go to Kolkata and present our project idea in the form of poster presentation. We also had our internal exams on the same days of conference. So that was also the challenging part of our project journey. But at the end collage supported us and conducted our exams when we were back from the conference.

#### **4. Achievements:**

##### **1. YSC:**

- a. India International Science Festival(IISF2019) is being organized by the Ministry of Science and Technology, Ministry of Earth Sciences, and the Ministry of Health and Family Welfare in association with Vijana Bharati (VIBHA)
- b. Held in the Biswa Bangla Convention Center (BBCC) in Kolkata during November 5-7, 2019.
- c. Around 1400 young scientists/researchers/Ph.D. scholars/post-doctoral fellows/entrepreneurs from various universities, postgraduate colleges, engineering colleges, R&D organizations, national laboratories, IITs, NITs, IISERs, Industries, and NGOs under the age of 45 participated YSC to discuss their research findings and exchange innovative ideas on the identified research themes such as - Make in India, Biodiversity, Frontier Areas of Sciences, Swachh Bharat, Swasth Bharat, Digital India, Water Crisis and Conservation.
- d. We were the youngest among those 1400 participants shortlisted for the YSC poster presentation.

##### **2. BFDI Google:**

- a. Organized by Google and the Ministry of Electronics & Information Technology (MeitY)
- b. Went through 3 phases: 1. Application & Learning 2. Prototype Phase 3. Feedback Phase
- c. In the first phase, they provided us with learning materials on emerging technologies
- d. In the prototype phase, we submitted a short video of a working prototype
- e. Among the 4 cities ( Gurgaon, Bangalore, Mumbai, Kolkata) out of 3.5k applications, only 61 teams were shortlisted for the feedback phase.
- f. Attended a 2 day in-person Bootcamp at Google office, Mumbai.



Photos:

