

Activity Title	Smart India Hackathon 2020 organized by MHRDA & Govt. of India
Activity Coordinators	<ul style="list-style-type: none"> • Dr. Dhananjay Patel(EXTC)-SIH-SPOC • Prof. Prita Patil(CMPN)-SIH- Coordinator
Date/s & Venue/s	<ul style="list-style-type: none"> • Internal Hackathon: 18th January 2020 from 9 am to 5 pm. at VIT • SIH-Software Edition Finale: From 1st August 2020 to 4th August 2020 in Online Mode • SIH-Hardware Edition Grand Finale: From 21st December 2020 to 25th December 2020 in Online Mode
Objective	The activity was conducted to nurture technical and interpersonal skills of students and faculties by providing technical solutions to real world problems and benefit our nation as well as society.
Activity Description	<p>On the 18th of January 2020, from 9 a.m. to 5 p.m., VIT hosted an internal Smart India Hackathon competition. Everyone is encouraged to participate in the competition. VIT has sent 60 student teams, totaling 360 students, to compete, and all of the teams will present their chosen projects. Faculty members expressed an interest in participating by visiting the teams and providing helpful feedback. The goal of this competition was to choose the best team to represent India at the Smart India Hackathon in 2020.</p> <p>VIT has entered the software edition of the SMART INDIA HACKATHON Competition 2020. In the SIH 2020 competition, one of our teams took first place. Out of the two teams that competed in SIH 2020, one made it to the finals and won the tournament. Due to COVID, the event was held online this time. It was held on the 1st, 2nd, and 3rd of August, 2020, with the results announced on the 4th of August, 2020. JECRC University in Jaipur served as our Nodal Center.</p> <p>Problem Statement</p> <p>Problem statement was given by Ministry of Women and Child Development to develop an MIS (Management Information System) software for RMK (Rastriya Mahila Kosh) to let NGOs/IMOs (Intermediary Organization) to maintain details of Women Entrepreneurs under them in terms of their personal information and loan tracking details. Rashtriya Mahila Kosh (RMK), established as an autonomous body in 1993 is a national level organization under the aegis of the Ministry of Women and Child Development, for socio-economic empowerment of women. The operating model currently followed by RMK is that of a facilitating agency wherein RMK provides loans to NGO-</p>

MFIs termed as Intermediary Organizations (IMOs) which on-lend to Self Help Groups (SHGs) of women. These micro-credit loans are provided to women micro-entrepreneurs in both rural & urban areas, organized in Self-help groups (SHGs) / Joint lender groups (JLGs). Management Information System (MIS) software for IMOs – The software needs to capture information related to women beneficiaries (i.e. women micro-entrepreneurs) such as loan account information, repayment track record, economic activity, personal information (Aadhar Card, Bank Account Details, Age etc.), Income level, Savings, Demographic details (no. of family members, caste, religion, literacy level etc.)

Solution:

Efficient management and tracking of loans taken, repayments of the loans, and of all the NGOs, Self Help Groups and Entrepreneurs associated with RMK. Role-based hierarchy where roles would be Super Admin, RMK Admin, NGO Admin, SHG Admin and Entrepreneur so that privileges of actions performed by each role in the overall system will be assured. Each User Role will be shown a Dashboard which includes the authorized information according to their role.

Team Name: gitCtrl

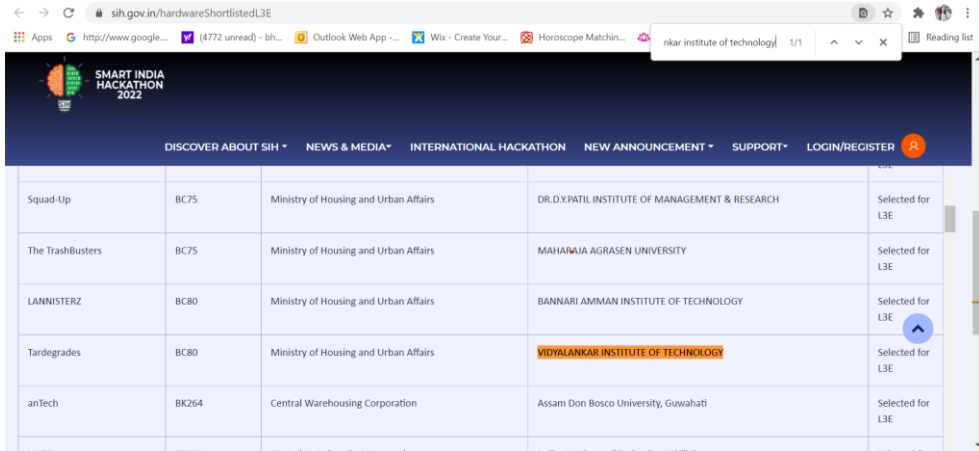
Team Members:

1. Chitral Patil (Team Leader- CMPN)
2. Urja Khadilkar (CMPN)
3. Sneha Khachane (CMPN)
4. Shubh Jangam (ETRX)
5. Kiran Rai (ETRX)
6. Karan Agrawal (ETRX)
7. Prof. Suja Jayachandran (CMPN)-Mentor
8. Dr. Sachin Bojewar (INFT)-Mentor

Prize Money Won: INR 100000/-

The Hardware competition of the Smart India Hackathon 2020 was won by Vidyalankar Institute of Technology. VIT has once again demonstrated its presence at a nationwide project competition. This prize has been given to VIT for the past two years, when we began hosting an internal hackathon at

	<p>our institute. We were chosen as winners among 25 teams competing in the hardware category after being shortlisted in the third round.</p> <p>The Ministry of Housing and Urban Affairs provided the problem statement.</p> <p>Problem statement:</p> <p>A government-owned crowd and passive surveillance system are required to get real-time data about the public movement to ensure proper administration and security of our citizens. An overview of public movement gives concerned authorities a quantitative measure to base their decisions upon. Third-party public sourced APIs like google-maps cannot be used as they can be easily manipulated since the data is crowdsourced and not reliable enough to take an administrative decision</p> <p>Proposed solution: We designed a compact and a robust device that can be deployed at required public spaces to fetch necessary info in a data-driven yet non-intrusive and passive manner. We get the input from an array of such devices placed across a city; these devices send images captured at specific times to the server which are then processed to estimate a crowd index at a particular location.</p> <p>Prize Money Won: INR 100000/-</p> <p>Team Name: Tardegrades</p> <p>Team Members:</p> <ol style="list-style-type: none"> 1. Lakshita Pillay (CMPN) 2. Utkarsh Chandel (INFT) 3. Akash Pawara (CMPN) 4. Ritwik M (INFT) 5. Sushant Chalak (CMPN) 6. Aniket R (ETRX) 7. Prof. Prita Patil (CMPN) -Mentor <p>-</p>
Preparation	The schedule was prepared and uploaded on vlive and vshow. A flex was prepared for the event.
Takeaway	All attendees of event provided technical solutions to real world problems and benefited our nation as well as society.

Mapping to Vision Statement	Activity provided valuable information to nurture technical and interpersonal skills of students by providing technical solutions to real world problems thus motivating students to evolve into competent professionals and researchers to benefit society.																														
Attendees	360 Students																														
Photographs	<div>SIH-2020 Hardware Edition Grand Finale Winners</div> <div></div> <table><tr><th>Team Name</th><th>ID</th><th>Ministry</th><th>Institution</th><th>Status</th></tr><tr><td>Squad-Up</td><td>BC75</td><td>Ministry of Housing and Urban Affairs</td><td>DR.D.Y.PATIL INSTITUTE OF MANAGEMENT & RESEARCH</td><td>Selected for L3E</td></tr><tr><td>The TrashBusters</td><td>BC75</td><td>Ministry of Housing and Urban Affairs</td><td>MAHARAJA AGRASEN UNIVERSITY</td><td>Selected for L3E</td></tr><tr><td>LANNISTERZ</td><td>BC80</td><td>Ministry of Housing and Urban Affairs</td><td>BANNARI AMMAN INSTITUTE OF TECHNOLOGY</td><td>Selected for L3E</td></tr><tr><td>Tardegrades</td><td>BC80</td><td>Ministry of Housing and Urban Affairs</td><td>VIDYALANKAR INSTITUTE OF TECHNOLOGY</td><td>Selected for L3E</td></tr><tr><td>anTech</td><td>BK264</td><td>Central Warehousing Corporation</td><td>Assam Don Bosco University, Guwahati</td><td>Selected for L3E</td></tr></table>	Team Name	ID	Ministry	Institution	Status	Squad-Up	BC75	Ministry of Housing and Urban Affairs	DR.D.Y.PATIL INSTITUTE OF MANAGEMENT & RESEARCH	Selected for L3E	The TrashBusters	BC75	Ministry of Housing and Urban Affairs	MAHARAJA AGRASEN UNIVERSITY	Selected for L3E	LANNISTERZ	BC80	Ministry of Housing and Urban Affairs	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	Selected for L3E	Tardegrades	BC80	Ministry of Housing and Urban Affairs	VIDYALANKAR INSTITUTE OF TECHNOLOGY	Selected for L3E	anTech	BK264	Central Warehousing Corporation	Assam Don Bosco University, Guwahati	Selected for L3E
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Vidyalankar
Institute of
Technology
Accredited A+ by NAAC



Ministry of Housing and Urban Affairs
Government of India



SMART INDIA
HACKATHON
2020

#SmartIndiaHackathon
World's Biggest Open Innovation Model

Hardware Edition
GRAND FINALE

Dates to be announced soon







Smart India Hackathon is a non-stop product development competition

Vidyalankar Institute Of Technology

!!! Congratulates !!!

SIH-2020 winning Team-Hardware Edition(Grand Finale)

Problem Statement
was given by Ministry
of Housing & Urban
Affairs:

**To build a
Government owned
crowd & passive
Surveillance System**



LAKSHITA PILLAY
(CMPN- Team Leader)



UTKARSH CHANDEL
(INFT)



AKASH PAWARA
(CMPN)



RITWIK MUKHERJEE
(INFT)



ANIKET RANDIVE
(ETRX)



SUSHANT CHALAK
(CMPN)

**Prize
Money Won**
INR: 1,00,000/-

MENTOR



Prof. Prita Patil

FINAL EVALUATION



Coordinated By
Dr.Dhananjay Patel (SIH-SPOC) & Prof.Prita Patil (SIH-Coordinator)

SIH-2020 Software Edition Winners



VIT | Vidyalankar
Institute of
Technology
Accredited A+ by NAAC

Ministry of Women and
Child Development
Government of India

**SMART INDIA
HACKATHON
2020**

#SmartIndiaHackathon
World's Biggest Open Innovation Model

Software Edition (Online Platform)
GRAND FINALE
on
**1st - 3rd
August 2020**

ORGANIZERS

MHRD, Ministry of Women and Child Development, Government of India, VIT, Smart India Hackathon

"I am happy to see young minds thinking about ways to take our nation forward. It is a delight to be among smart innovators of smart India"

PM Narendra Modi

Smart India Hackathon is a non-stop product development competition

Vidyalankar Institute Of Technology
!!! Congratulates !!!
SIH-2020 winning Team-Software Edition

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was given by
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To build a
Management Information System (MIS) for Rashtriya Mahila Kosh and IMOs (Intermediary Organizations)

CHITRAL PATIL
(CMPN- Team Leader)

SHUBH JANGAM
(ETRX)

KARAN AGRAWAL
(ETRX)

URJA KHADILKAR
(CMPN)

KIRAN RAI
(ETRX)

SNEHA KHACHANE
(CMPN)

MENTORS

PROF. SUJA JAYACHANDRAN

DR. SACHIN BOJEWAR

Coordinated By
DR.DHANANJAY PATEL (SIH-SPOC) & PROF.PRITA PATIL (SIH-COORDINATOR)

FINAL EVALUATION

Internal Hackathon Glimpses





