



Activities Report

03.09.2018

TinkerHub Technology Innovation Foundation

Building No 12/94

Munnookkum Purayil

Parappanpoyil Thamarassery

Kozhikode – 673573



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TinkerHub Leadership Summit

TinkerHub

Leadership Summit //

20-22 April / Kochi

TinkerHub Leadership Summit was a two day camp attended by 60 selected young leaders from across the state conducted on 21st to 22nd of April, 2018 at Santhigiri Ashram, Kochi. The leaders have the collective access to 30+ international and national organisations in technology and startups. These people are working extensively in more than 8 segments of future technology and innovation.

The attendees included founders of not for profits like of [i-Lab](#), [Pehia](#), [SMC](#) and leads of 15+ communities around technology and entrepreneurship. The wide range of perspectives allowed them to sit and discuss about collaborating for building the future towards a sustainable technology-led environment around us.

News / Articles Published

<https://medium.com/@gksoriginal/thoughts-from-tinkerhub-leadership-summit-2018-chapter-1-95de3a2d9fc4>

Plan A.		
20 April		
16:00 Registration & Welcome	10:00 Introductions Why I do what I do	20:00 Community Dinner
17:00 Introductions: Why I do what I do	11:00 The I lab story, on sustaining movements	22 April
18:00 Why we are here	12:00 On running a rural maker space	08:00 Sustaining & Funding non profit initiatives
19:00 Nurturing the future technology talents	13:00 Round Table On Communities	09:00 Why we started PEHIA
21 April	15:00 Creating and sustaining an organisation around policy	10:00 Tech & Startup communities in Kerala.
08:00 How we started and thriving at Kasargod	16:00 The role of heart lead leaders in impact space	11:00 Introductions Why I do what I do
09:00 A decade on entrepreneurship	17:00 Introductions: Why I do what I do	12:00 Building Leaders
	18:00 Panel discussion On Talent Pool	14:00 TinkerHub 2018-19
	19:00 The TinkerHub Story	15:00 Signing Off

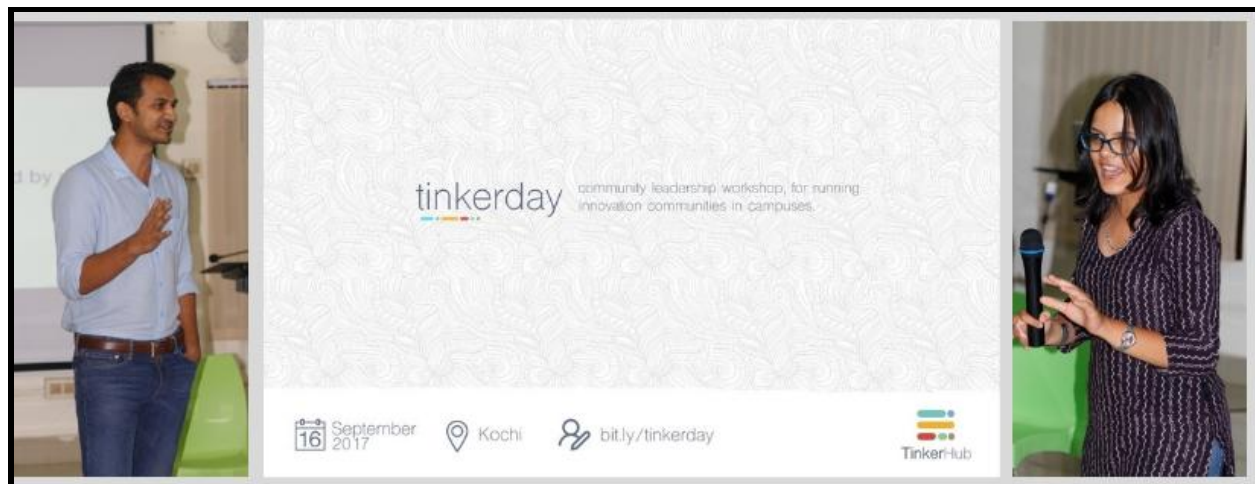
Photographs of the Program



Discussions happening around Future Technologies. Kerala AI Team shares the action plan.



TinkerDay



Innovation and Entrepreneurship Development Cells are established in more than 190 colleges across the state. Two lakh rupees is provided to colleges by Kerala Startup Mission. Colleges still find it hard to create a sustainable innovation culture in the campuses.

TinkerHub have made a great history of success in creating and nurturing an innovation culture in pioneer colleges in kerala. TinkerHub is organizing a one day camp for community leaders from Campuses. TH will enable the leaders to create and run a innovation community in their campuses. We are looking to build this group of strong community leaders to accelerate their growth.

TinkerDay was a one day camp organized aiming for the community leaders from college campus conducted on 16th September, 2017 at CITTIC CUSAT, Kochi. The aim of the event was to enable the student leaders to create and run an innovation community in their campuses.

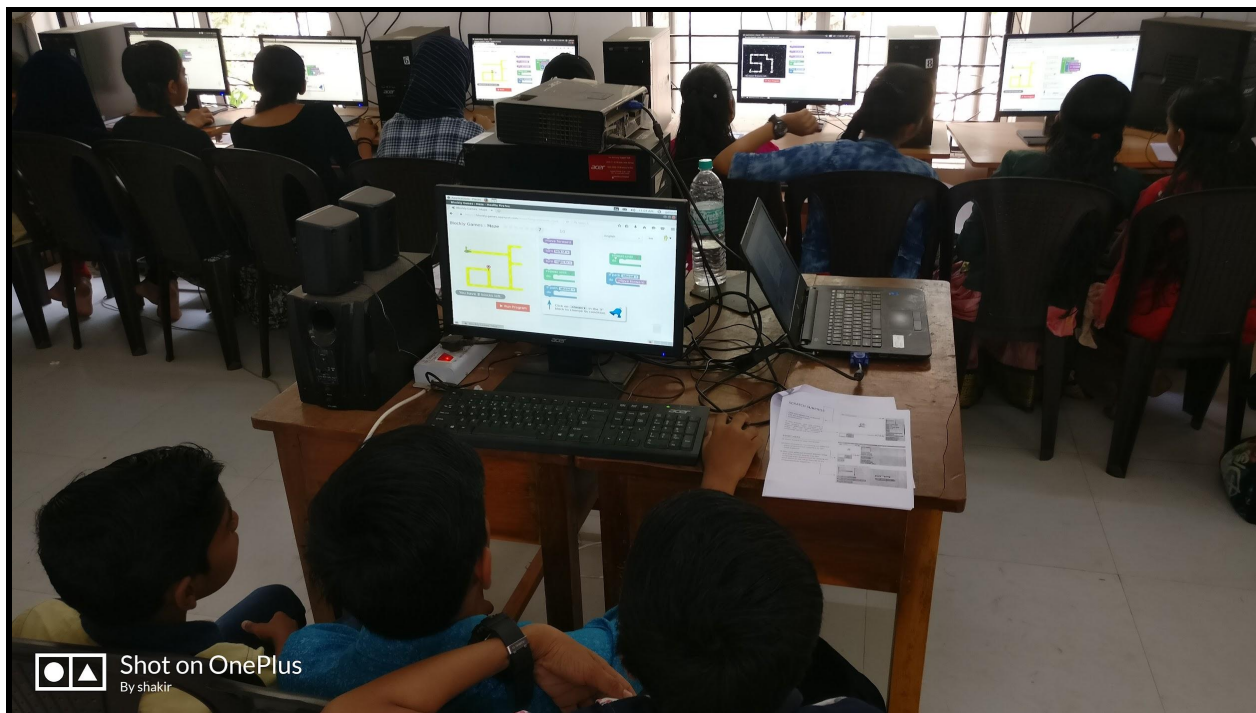
The event was attended by 60+ students from various colleges across the state. The main sessions and workshops were taken by various experts, namely, Sijo Kuruvilla - Founding CEO of startup Village, Praveen Sridhar - Co-founder of TinkerHub Foundation and Machine Learning Expert, Arya Murali - Yatri at Jagriti Yatra, Moosa Mehar - Kerala Startup Mission and Co-founder of TinkerHub Foundation.

The participants were able to get to know in personal several community leaders in Kerala and meet some of the top tech talents from the best colleges in Kerala.

Photographs of the Program



Technology Exposure and Skill Development (TESD) program



Technology Exposure and Skill Development or TESD, was a two-week program for kids cultivating computational thinking and confidence to create technology of their own conducted from 5th to 12th of April, 2018 at a govt. rural school at Madapalli, near Vadakara, Kozhikode.

After 8 days of training program which included beginner courses about MIT Scratch, Google Blockly Games, MIT App Inventor and Arduino, students were divided into groups and each built different innovative projects to showcase their skills and creativity. There was a total of 19 projects from 60 students - 11 mobile apps and 8 hardware projects.

The aim was fulfilled to the extent that the kids were concerned about solving real life problems at their young age, thus showing that, if taught in the right way, technology can be learned by kids much faster than elders and with much more curiosity and consideration.



The image shows a screenshot of a Facebook post by Dr. T.M Thomas Isaac. The post is dated 6 May at 18:16. The text of the post is in Malayalam and discusses the importance of financial literacy and the role of the government in providing financial education to the public. The post includes a photo of Dr. Isaac and a video of him speaking to a group of people.

Dr.T.M Thomas Isaac ✓
@thomasisaaq

Home
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Liked Following Share ...

Dr.T.M Thomas Isaac
6 May at 18:16 · 🌐

യുവതി-യുവാക്കളുടെ ചെറുശുപ്തുകൾ. എങ്ങും ഊർജ്ജവും പ്രസരിപ്പും. 24 മണിക്കൂർ നീണ്ടുനിൽക്കുന്ന ഒരു തീവ്രയജ്ഞത്തിലായിരുന്നു അവരെല്ലാം. കോഴിക്കോട് ഐ ഐ എമിൽ കഴിഞ്ഞയാഴ്ച നടന്ന "കോപ്പത്തോണി" നിയമലേക്ക് ഞാൻ കടന്നുചെല്ലുമ്പോൾ കണ്ട കാഴ്ചയാണിത്. ട്രാക്കിംഗ് സെൻസർ ഉള്ള ഷൂസ്, കാഴ്ച വൈകല്യം ഉള്ളവർക്ക് മുന്നിലുള്ള വസ്തുവിന്റെ നിറവും വലുപ്പവും മറ്റു വിവരങ്ങളും പറഞ്ഞു കൊടുക്കുന്ന ഡിവൈസ്, ഊബറിനൊരു സഹകരണ ബദൽ, വലിച്ചെറിയുന്ന മാലിന്യങ്ങൾക്കെതിരെയുള്ള റിപ്പോർട്ട് ... See more



“ഈ കട്ടിക്കൂട്ടത്തിൽ എന്റെ ശ്രദ്ധ ഏറ്റവും ആകർഷിച്ചത് മടപ്പുള്ളി ഗവ. ഹയർ സെക്കന്ററി സ്കൂളിൽ നിന്ന് ആറു വിദ്യാർത്ഥികൾ ആയിരുന്നു . ഇവരാണ് മാലിന്യ സംസ്കരണവുമായി ബന്ധപ്പെട്ട ഒരു ആപ് ചെയ്ത്. സ്കൂളിലെ ഒരു ടീമേ വന്നിട്ടുള്ളൂ. ഇത് പോലെ പല ടീമുകൾ ഉണ്ടത്രേ . ഒരു സാധാരണ സർക്കാർ സ്കൂളിൽ ഇത്ര മാത്രം കട്ടികൾ എങ്ങിനെ ഐ ടി ഇന്നോവേഷന്റെ പടികൾ കയറി തുടങ്ങി ? എന്ജിനീയറിംഗ് കോളേജിലെ കട്ടികളുമായി ഒരു മത്സരത്തിലേർപ്പെടാനുള്ള തൻറടം എങ്ങിനെ വന്നു? അപ്പോഴാണ് രഹസ്യം വെളിവാകുന്നത്. ഊരളങ്കൽ വിദ്യാഭ്യാസ ഫൗണ്ടേഷൻ ഈ സ്കൂളിനെ ദത്തേടുത്തിരിക്കുകയാണ്. നാനാവിധ ഇടപെടലുകളിൽ പ്രധാനപ്പെട്ട ഒന്ന് ഐ ടി മേഖലയിൽ ആണ് . ഐ ടി പഠിപ്പിക്കലിനുപരി നൂതന ചിന്താഗതികളെ പ്രോത്സാഹിപ്പിക്കുകയാണ് സമീപനം . അങ്ങിനെയാണ് ഈ കട്ടി വിദഗ്ദ്ധർ കോപ്പത്തോണിൽ എത്തിയത്.”

[Dr.T.M Thomas Isaac](#), Finance Minister, Kerala.

Read Full post here <https://www.facebook.com/thomasisaaq/posts/2139804362702360>

Scratch Camp - Introduction to Computer Programming for Kids



Scratch camp was a two-day code camp for school kids in association with Kerala Startup Mission on 15th -16th May, 2017 at UL Cyber Park, Kozhikode. The aim of the camp were school kids from classes 5th to 10th.

The 45+ students who had attended the program were taught the basics of programming logic that is used to do animations and simple games using Processing and MIT's Scratch programming languages.

The diversity was visible throughout the event as the students, despite their age, locality and background, assembled to grab the knowledge of programming.

School kids get a hang of computer programming

POOJA NAIR | DC
KOZHIKODE, MAY 17

The school kids here had a great time during the workshop on computer programming organised by the Kerala Startup Mission, Kozhikode.

The children aged between nine and 14 years and studying in classes from standards 5 to 10 in the schools here attended the workshop on "Introduction to programming using scratch and processing" held in cooperation with the Tinker Hub

on Monday and Tuesday. Praveen Sridhar, an expert in machine learning and currently working with Datalog.ai along with Vinayan, a hardware hacker based in Kochi, handled the sessions. Praveen is also the co-founder of TinkerHub along with Moosa Mehar.

P.K. Aisha, a 9th standard student, said that she realised the power of programming and wanted to develop games after the workshop. "Initially I was not keen, but was pushed by my parents to attend

the workshop. I want to learn more about mobile apps," she added.

Kriti, a student of class 7, loves practical computer classes in school, but hated the theory classes. She could solve the Maze challenge during the workshop by taking hints and clues about the logic from the instructors. She now wants to learn the internal workings of computer science.

Vinayan, being a student, was able to buddy up with the kids and said that teaching must involve an

element of play.

Moosa Mehar, co-founder of TinkerHub, said, "the students enthusiastically completed the programming challenges thrown at them. They learnt the basics of programming logic that is used to do animations and simple games using processing and MIT's scratch programming languages, Moosa said.

An attentive school kid listens to instructor during the workshop.

— DC



■ The children aged between 9 and 14 years and studying in classes from standards 5 to 10 attended the workshop

■ They learnt the basics of programming logic and simple games using processing and MIT's scratch programming languages

Photos of the program



Botathon - The Chatbot Hackathon

A promotional poster for the Botathon chatbot hackathon. The background is dark blue with floating yellow and white dots. On the left, three colorful robots (red, yellow, and green) are standing. The red robot has a bar chart on its chest, the yellow one has a line graph, and the green one has a speech bubble. In the center, the text 'Create your own chatbots! No prerequisites' is written in a playful font. On the right, the MyPolly logo is at the top, followed by 'presents' and 'BOTATHON' in large, bold, orange letters. Below this, the prize amount 'Prizes worth ₹50,000' is listed, followed by the date 'Date : 22 & 23 April', venue 'Venue : KTIZ, Kalamassery', and time 'Time : 11 AM Onwards'. At the bottom right, there is a logo for 'KERALA STARTUP MISSION [Formerly Technopark TBI]' and 'TinkerHub'. A contact information box at the bottom left contains the name 'Praveen Sridhar' and the number '7012528052'. A URL 'bit.ly/botathonkochi' is at the bottom right.

MyPolly
presents
BOTATHON

Prizes worth
₹50,000

Date :
22 & 23 April

Venue :
KTIZ, Kalamassery

Time :
11 AM Onwards

bit.ly/botathonkochi

Create your own chatbots!
No prerequisites

Contact :
Praveen Sridhar
7012528052

KERALA
STARTUP MISSION™
[Formerly Technopark TBI]

TinkerHub

Botathon was an overnight hackathon conducted on 22nd April, 2017 at Kerala Technology Innovation Zone, Kalamassery. The aim of the event was to encourage new uses for chat based technologies and to build the best chatbot for various platforms like facebook, twitter and Alexa.

Kerala Startup Mission (KSUM)

Kerala Startup Mission (KSUM) is the state nodal agency for Technology, Innovation and Entrepreneurship in the state of Kerala. Kerala is the first state in India to come with a Startup Policy back in 2014 and Technopark TBI became Kerala Startup Mission to execute the policy. KSUM formerly known as 'Technopark Technology Business Incubator', is the India's first and Most successful Non Academic Business Incubator, hosted and housed inside the Asia Largest IT Park Technopark. Technopark Technology Business Incubator (T-TBI), a joint association of Technopark, Trivandrum and the Department of Science and Technology (DST), Government of India, to help the technology business start-ups, started operation during 2007. KSUM is the pioneering champion among incubators which functions with a vision to support and nurture the startups in the state of Kerala. It also is the first non-academic business incubator. The Technopark TBI spreads over 20,000 sq ft is situated in the lush green and world class IT infrastructure, The Technopark, the biggest in the continent. Since launching in 2006, our family includes more than 200+ of India's most promising startups.

Community grant scheme

Startup Community Partner Development Programme (SCPDP), an initiative aimed at creating an inclusive startup ecosystem in the State. The SCPDP will act as a catalyst to connect the whole system from students, professionals, entrepreneurs, innovators and investors et al. The focus is to establish a strong chain of voluntary organisations/individuals, who work for creating capacity building in the State.

The programme aims at organising the startup communities from different sectors of the society within one network. This will enable a focused growth in the startup ecosystem. The KSUM has several schemes, which connect the students across the State, and the linkage with the community partners can increase the reach and effectiveness of the same.

Students will be able to associate with the community partner to update the technology skills by participating in the open forum discussions, technology workshops, seminars and meet the mentor sessions etc. They will also be given the opportunity to work on their innovative projects. Mentorship will be made available instantly by the KSUM through the community partners.

TinkerHub foundation was one of the first recognized community partner of Kerala Startup Mission. TinkerHub has received a grant of 3 Lakhs for organizing technology community activities in the state. Many of the founding members of TinkerHub Foundation were active community leaders in technology and were Fellows of Kerala Startup Mission. TinkerHub is actively involved and contributed in creating and executing technology startup policy of the state. IEDC Summit is the largest student technology startup conference in Kerala. Technology experience zone is an integral part of this program. TinkerHub joined with KSUM to make this happen.



IEDC Summit

The banner features a red background with the text "Learning Stations" at the top right, "Panel Discussions" in the center, "Workshops" at the bottom left, and "Talks" at the bottom right. A central graphic shows a hand plugging a USB drive into a yellow square labeled "IEDC Summit 2016". Below this, the "FEDERAL BANK" logo is displayed with the tagline "YOUR PERFECT BANKING PARTNER", and the "SBT" logo with the tagline "A Long Tradition of Trust". At the bottom, a row of partner logos includes CLUB, EY, GTech, OYO, YOUR STORY, Broadband, GDG, hackster.io, ICFOSS, and space.

Meet the Eminent Personalities

Chief Guest Shri. Pinarayi Vijayan Hon. Chief Minister of Kerala		Hon. Minister of Power Shri. Pinarayi Vijayan	
M. Sivasankar IAS Secretary, IT	P. H. Kurian IAS Principal Secretary, Revenue	Mr. C. Balagopal Founder, Netujee Netujee	V. K. Mathews Founder & Executive Chairman, SBT Group
Dr. A. Velumani MD & CEO, Thyrocare	Afsal Salu Co-Founder, Cybernetics & Technology Solutions	Ashok G Seafund	Lepeesh Parat CEO, Zentylabs Technologies
Ashutosh Kumar Executive Director, Jagriti Kerala	Anoop P. Ambika CEO, Cognate	Suhani Mohan Co-Founder and CEO, Sana Design	Jijo Paul CEO, Medica Technologies
Unni Krishnan G Deputy GM, KSIDC	Musthafa P. C CEO, ID Fresh	Ayyappan Asokan CEO, Sifra Technologies	Hari Kumar Tivarscore Analytics

The Innovation and Entrepreneurship Development Centres (IEDC) are the entities set up in Engineering, Management, Arts & Science Colleges and Polytechnics with an aim to provide an exciting platform for experimentation and innovation. Kerala Startup Mission has set up IEDCs in 193 Institutions across the State which provide avenues for creative students to transform their innovative ideas into viable products and services. IEDCs works as the first launch pad for a student's entrepreneurial journey and provide them with access to cutting edge technology, world class infrastructure, high quality mentorship, early risk capital and global exposure.

IEDC Summit is the avenue for participants of various units across the State to come together, to share the success stories, to learn from each other's failure, to showcase innovative products and to develop strong networks that go a long way in developing sustainable enterprises. The summit is scheduled with two sets of panel discussions to learn from two levels of entrepreneurs, one who have succeeded from Kerala and established their business across the globe and the young generation entrepreneurs who are aspire to shake the world in future through their innovative enterprises.

Technology Experience Zone

Technology is booming exponentially. Kerala is well known for their talent in technology. If we are not familiar with the latest technologies it will be hard for us to keep up with the skyrocketing developments in this field. In order to win the fourth industrial revolution, we should be in the forefront of creation of latest technologies. Annual IEDC Summit is the largest of its kind in India. Now we have added an edge by including Technology Experience Zone to our programme.

In Technology Experience Zone, we host demonstrations of latest technologies for the students. The major difference between a normal expo and Experience Zone is that, this will enable students to get a closer look at technology and along with that, they will be guided on how to build using that technology. Latest trends in tech like Drones, VR/AR and a lot of other students projects were part of this. TinkerHub was part of this initiative for all the Summits hosted so far.

Community Partners Showcase

Technology and startup communities play a big role in ecosystem development. Technology communities are a group of technology enthusiasts coming together to share the knowledge. There are a lot of communities around technology who are actively organizing meetups, events and programs, to create, nurture, and mentor technology talents. TinkerHub being one of the pioneer in this domain, are in constant conversing with most of these communities and organisations working in and around technology.

Most of this community activities are based in major cities of Kerala like Kochi, Trivandrum and Kozhikode. Colleges which are not very close to these regions may not have the exposure to these communities, their activities, and support they provide students in technology learning and making. In order to address this gap, we have arranged community stalls in Technology Experience Zone. There were more than 15 communities ready for the program to showcase their activities and run a support program for young makers and developers. This included international foundations like Mozilla which works in internet accessibility, and Wikipedia with their expertise in knowledge accessibility. Google Developers group, Student Developers Society, Haster.IO were some notable names of the programme. Mr Shahul Hameed, Founding member of TinkerHub foundation was leading this for the first IEDC Summit.

Headstart and IIM Kozhikode Live Incubator



A group photo with speakers and attendees / Startup Saturday February 2017

Headstart Network

Established in the year 2008 with the vision to 'Change the World through Entrepreneurship', Headstart Network Foundation (headstart.in) is the largest network of early stage startups in India. A non-profit, volunteer-driven organization, HeadStart Bangalore facilitates entrepreneurial learning, hiring and peer mentoring amongst the startups and addresses their issues through various initiatives such as: Startup Saturday Bangalore, Headstart Clubs, Headstart Higher, Headstart Cofounder Search Program and Headstart Intern.

Introduction to Startup Saturdays

Startup Saturday is one of India's most popular startup events. It is organized on the 2nd Saturday of every month, simultaneously, across 20 Indian cities by the Headstart Network. The main objective of Startup Saturday is to generate inspiration for aspiring and young entrepreneurs. Every month Startup Saturday is based on a different theme.

TinkerHub Partnership with Headstart

TinkerHub Foundation is working around technology and technology based startups are an integral part of the system. In order to nurture future entrepreneurs in technology, TinkerHub believes partnering with the largest community of technology entrepreneurs in the country will be the best way to go forward. Through this partnership TinkerHub

leveraged its networks and campus connects to reach the message of startup community activities in the malabar region.

IIM Kozhikode and IIMK LIVE Business incubator

LIVE is a business incubator and entrepreneurship development centre of IIM Kozhikode set-up with the support of Department of Science and Technology, Government of India. Established in June 2016, the centre is envisioned to function as a business incubator with a purpose of creating a National Centre of Excellence that promotes innovation, new business venturing and entrepreneurship. Towards this, it seeks to emerge as a collaborative platform that help transform innovative ideas into business ventures that make significant economic and social impact.

Headstart Startup Saturdays were hosted by IIMK LIVE and TinkerHub got an opportunity to work with the senior leadership of IIM Kozhikode as a partner of this initiative. TinkerHub's expertise and network made the launch and monthly programs a huge success.

Programs and details

No	Program	Date	Attendees
1	Validating your startup idea	14/01/2017	280
2	Making 'A' Team	11/02/2017	220
3	Basics of Starting Up	11/03/2017	180
4	Building a WoW Product	08/04/2017	150
5	All about Fundraising	13/05/2017	120
6	All about Social Entrepreneurship	08/07/2017	130
7	All About Startup Growth	13/01/2018	80

Villgro Innovations Foundation

SPEAKER

08 July 2017; 2:00pm
IIM Kozhikode, Calicut
http://bit.ly/SScalicut_jul17

All About Socent
Social Entrepreneurship

IIM KOZHIKODE **LIVE** Co-Organizer
Kerala Startup Mission Associate Sponsor
CAFIT Community Partner
TinkerHub Technology Partner



HEADSTART

HEADSTART Startup Saturday

Ullas Marar
Head - Scouting and Communications
Villgro Innovations Foundation

SPEAKER

08 July 2017; 2:00pm
IIM Kozhikode, Calicut
http://bit.ly/SScalicut_jul17

All About Socent
Social Entrepreneurship

IIM KOZHIKODE **LIVE** Co-Organizer
Kerala Startup Mission Associate Sponsor
CAFIT Community Partner
TinkerHub Technology Partner

Poster of July Startup Saturday

Google Developers Group

Hands On - Progressive Web Apps
 A new way to deliver amazing user experiences on the web.
 By GDG Kozhikode

Ajith V, App Developer,
 SoftFruit Solutions

**Saturday, 4th March
 2017**
 10:00 am - 1:00 pm ,
 Kerala Startup Mission, UL Cyber Park ,
 Kozhikode

GDG Kozhikode Beacon Infotech™ **STARTUP MISSION** **TinkerHub** **KAPPIAN**

GDGs are local groups of developers who are specifically interested in [Google products and APIs](#). Each local group is called a GDG chapter and can host a variety of technical activities for developers - from just a few people getting together to watch our [latest videos](#), to large gatherings with demos and tech talks, to hackathons. The GDG platform is a membership level within the wider Google Developers Community Groups program and it offers tailored support to organizers of local GDG chapters. Google Developers supports and recognizes GDG chapters, but doesn't own or manage them.

Google Developers Group Kozhikode and TinkerHub

GDG Kozhikode plays a pivotal role in shaping the tech ecosystem in malabar region. GDG Kozhikode became top performing GDG chapters in India during the course of partnership with TinkerHub. TinkerHub has supported the community from restarting the meetups to structuring the activities and outreach. TinkerHub has supported the group with resources such as sponsorship for conferences to finding speakers for the programs. These programs were the most attended developer monthly meetup in Kerala. This enabled GDG Kozhikode to be the number 3 top performing GDGs in India.

Google Developers Group Kochi and TinkerHub

GDG Kochi leadership team is build from active members of TinkerHub community. GDG Kochi is very well known in the tech community for its activities. TinkerHub apart from

supporting all the initiatives of GDG Kochi, has directly partnered for couple of programs to support developer ecosystem.

No	Program	Date	Attendees
1	Building REST API's and Writing Clean Code.	07/01/2017	90
2	Hands on Intro to Machine Learning	28/01/2017	60
3	Android O++	26/08/2017	70
4	Cross-platform app development with Ionic	04/02/2017	85
5	Progressive Web Apps	04/03/2017	110
6	Women Tech Makers	29/04/2017	230
7	GDG Dev Fest	28/10/2017	65
8	TensorFlow Dev Summit	28/04/2018	60



(Writing Clean Codes)

KSUM, UL Cyberpark
Saturday, 7th January 2017
09:30 am to 1:00 pm

* What are REST APIs

* Why to use REST APIs in Applications

* How to make your own REST API

* How to Access Public REST API

* Learn how to Write code that is readable and can be maintained by others

"Think Twice, Code Once"

GDG Kozhikode

www.gdgkzhikode.org

STARTUP MISSION
TinkerHub



Women Techmakers

Pyari Singh

Technology Analyst

10:00 am - 1:00 pm ,
Kerala Startup Mission,
UL Cyber Park ,
Kozhikode

29th
April
2017

To all the Women
out there!
Let's get to work
Ladies!

GDG Kozhikode

STARTUP MISSION

TinkerHub



Campus Activities

Weekly Coding Challenge @RIT

To provide an opportunity for students to improve their programming aptitude, Tinkerhub-RIT took up the initiative to conduct weekly online programming contests hosted on Hackerrank [1]. The questions had varying difficulty levels so as to expose

students to the different kinds of techniques involved in coding the solution to a problem. The students who had doubts in solving a problem were given hints on how to approach the question and were later on provided the solution if they were not able to solve the problem.

The overall top performers were:

1. Bivin Varghese (S2 CSE)
2. Shashank SJ (S4 CSE)
3. Akshaya TR (S4 CSE).

The problems for the contest were set by Ebey Abraham (S6 CSE) and John Abraham (S2 CSE).

[1] Weekly Challenges

<https://www.hackerrank.com/tinkerhub-rit-a-weekly-challenges/challenges>



Infinity Code



A national level online programming competition was conducted as part of RITU 2018. The contest was hosted on

Hackerrank [2] and had a total prize money of ₹5000 which was funded by Tinkerhub.

The event was conducted on 24th February 2018 and had a total of 285 signups from across the country. The participants had to solve 6 algorithmic problems in 6 hours. The problems for the contest were set by Akshatha Nayak (S6 CSE), Ebey Abraham (S6 CSE) and John Abraham (S6 CSE)

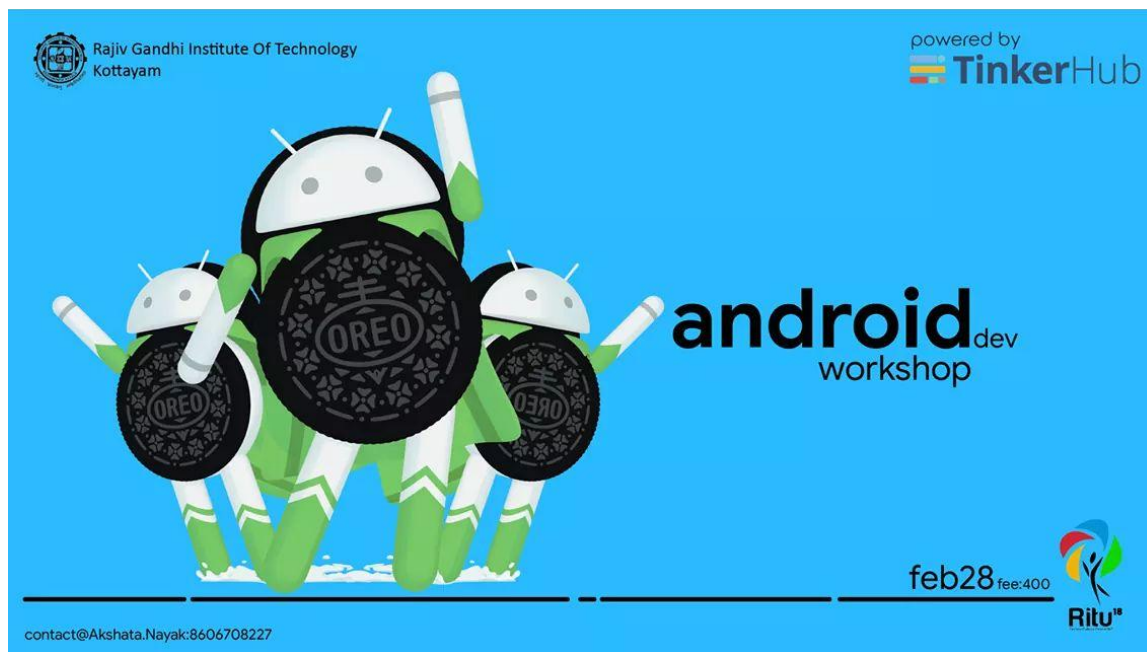
Droid Kerala



A workshop series of 60 participants conducted on 9th August, 2017 at CITTIC CUSAT. Droid Kerala is an initiative by Google Developers Group Cochin.

Vision to make God's own country to Droid's (Android Developers) own Country

Android Development Workshop



As a part of techno-cultural fest RITU 2018, Tinkerhub-RIT organized an Android

development workshop on 28th Feb 2018 handled by Mr. Amrith M (Google Facilitator for Applied CS With Android Program). The workshop was aimed at beginners in Android development, with a basic knowledge of programming. The workshop covered the basics of Java, Android Studio and basics of Database Querying.

The workshop had an attendance of 25 students from different colleges across the state. At the end of the workshop, the participants gained enough knowledge to be able to build a basic Android app on their own. The workshop was coordinated by Akshatha Nayak (S6 CSE), and the volunteers for the workshop were Yarbash Saleem (S2 CSE) and Bivin Varghese (S2 CSE).

Opportunity Hackathon



Opportunity hackathon was an event conducted during Techno-cultural fest RITU 2018 by Tinkerhub RIT. It was an event to introduce various scholarships that a student can apply for. The main speakers of the event were Mr. Samir Dayal Singh, an entrepreneur and a BTech graduate and Miss Irene, a GHCI scholar and BTech student.

The session began with an introduction about Tinkerhub, followed by a personal introduction by each participant. The speakers spoke about hackathons, scholarships like GHCI, Idea Grant and organizations like Rethink where volunteers help students apply for scholarships. They shared their personal experiences with these scholarships with the audience. After a break, the students were made to write SOPs and résumés. Some participants presented theirs on stage and were given goodies for their active participation. The session ended at 2 after the students' emails were collected. The feedback from this session was extremely positive.

The event, which had a participation of 30 students, was coordinated by Gopikrishnan Sasikumar (S8 CSE), and the volunteer was Ann Philip (S2 CSE).

Tinker-Women Meetup



A meet up was held by Tinker-Women exclusively for the girls of first and second years of CSE on the 12th of January, 2018, to discuss the trending fields in tech these days. The meet up was largely informal, consisting of a brief session to socialize and get to know their peers, followed by introductions to various tech fields by the

Following speakers:

1. Web development: Elza Ebenezer
2. App development: Akshaya Rajesh

3. Ethical hacking: Namratha Eva Jacob
4. Big data: Safia Khaleel
5. AI + ML: Athira Kunjumon
6. Bioinformatics: Rosu George
7. Computer vision & Image processing: Swetha Balram
8. Graphic designing: Reshma Koshy

The session was coordinated by Ganga Manoj (S4 CSE), and had a participation of 24 girls.

Machine learning workshop



Conducted on 8th August, 2017 by TinkerHub-RIT.

Coffee with Googlers

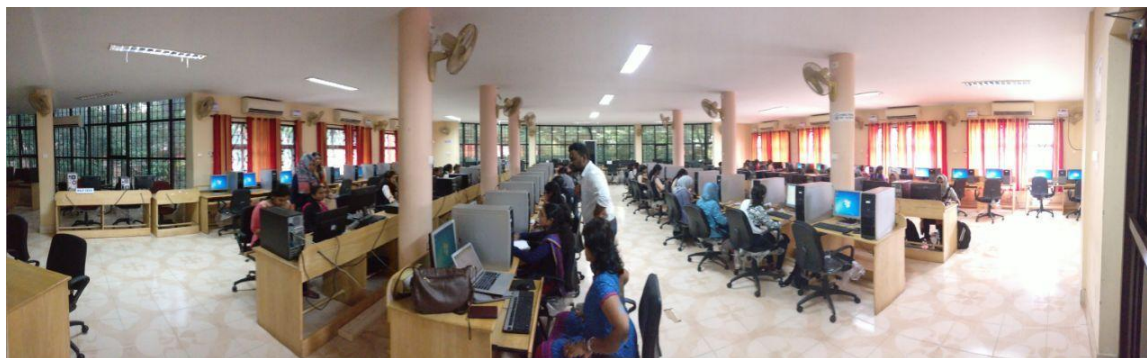


60+ participants conducted on 4th August, 2017 at CITTIC CUSAT.

Women of Wonders



Women of wonders was a program focused on introducing opportunities in gender in technology. 85 women technology enthusiasts joined for the program. The participants were from NIT Calicut and other engineering institutes in and around malabar. This was a full day program conducted at NIT Calicut in association with Kerala Startup Mission and Technology Business Incubator or NIT. Arya Murali, Director Opportunities project at Rethink Foundation was the chief mentor for the program. The program was conducted on 28th June, 2017.



Gist from the workshop afternoon.

Awesome people in tinkerhub.

Gopikrishnan Sasikumar



Gopikrishnan is an AI developer, wannapreneur, blogger and community builder who runs on a hearing aid. **Joining tinkerhub changed his life. He built the RIT chapter.** This achievement and the projects he did took him to 10th edition of young India challenge in 2017. He built his virtual assistant, got appreciation from Google for his women safety project and currently he is working on a disabled in tech accelerator.

Ann Philip



exposure than bookish knowledge. And the search for more exposure led me to Tinkerhub RIT. There I met people whom I could easily talk to without feeling insecure about my lack of knowledge. They helped me connect with various communities across Kerala and to find my passion. I am currently working as the hackathon lead of Pehia and am also an active participant of many communities. And Tinkerhub RIT is the stepping stone towards this change and even now the members of the community are among people whom i can rely on for any support both technical and non technical."

"It was in my first year that i realised that I needed to learn and get more

Irene George



Irene is a former GHCI scholarship winner and a women in tech enthusiast. She

participated in hackathons and community activities during her college life. Irene says,

“Tinkerhub has played a huge role in shaping myself to the way I am. If there is atleast a little bit of knowledge about technology general or specific, tinkershub has the credits. Two main things and that would be, TH has helped me to be better at networking and that has let me meet many people and interact with many cool people. And second I love the kind of support i or anyone else who wants to learn or build or collaborate has through Tinkerhub. Its immense and its amazing.”

Samir Dayal Singh



Samir Dayal Singh is the co-founder of innovaden community and humble innovations. He built a product called humble shit for managing cleanliness of public toilets. Samir is an active member of tinkershub family. In his words, ***“TinkerHub has been a group of leaders and they have always complemented to what I've taken up. Be it a small initiative about maker cultures or about my startup venture. It has exposed me to interesting connections, talents and opportunities. It's a catalyst for leaders in the making.”***

Enfa George



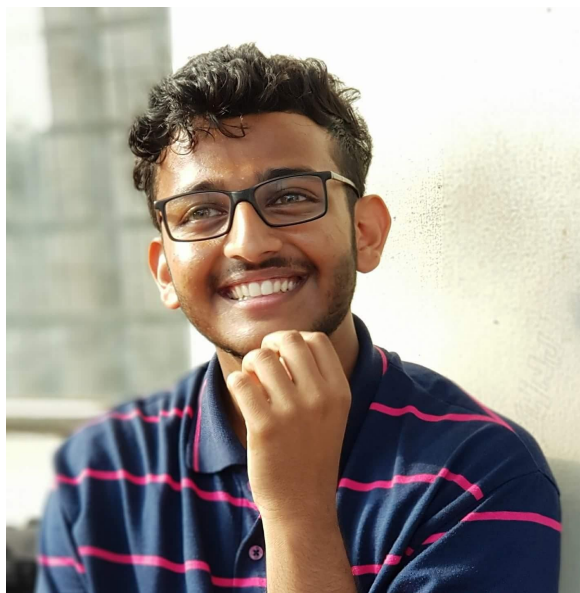
Enfa George who co-founded pehia.org a women in technology organisation from Kerala is one of the active members in tinkershub. Tinkershub is helping her to find and share opportunities, build her organisation and learn new things. From her words, ***“ Tinkershub was there to support us financially and strategically when we wanted to launch pehia officially. Been there when we need support the most. Still is.”*** She is an aspiring machine learning developer also.

Fariz Rahman



Fariz Rahman is the top most contributor of keras deep learning framework and he is a deep learning engineer in skymind.io. This 21 year old AI champion has an annual income of 1 crore. In a time when deep learning was not heard by many people he wrote out of the box codes and helped keras team to build the amazing keras framework. Fariz last year founded keralaai.in for spreading AI knowledge and opportunities in Kerala. This community is now building a lots of AI talents in Kerala. **Tinkershub founder Mehar helped a lot in this process and fariz found potential partners for founding Kerala AI initiative from tinkershub.**

Kamal Johnson



Kamal is a game developer from RIT. He is so passionate about building games and 3d models. **Recently Kamal got selected for the VR training program by sv.co in collaboration with Facebook.** The tinkershub chapter in RIT helped him a lot in his achievement. tinkershub-RIT connected him with his teammates,

provided quality suggestions and mentorship.



TinkerHub - RIT

31 Jul at 9:37pm • 🌐

Congratulations to **Kamal Johnson, Mashal Mohd** and **Anaj Antony** from RIT, Kottayam who got selected among the top 10 teams for the Scool of Innovation India program by Facebook and **SV.CO**



Ebey Abraham



Ebey is one of the current lead in tinkershub RIT chapter. He is a machine learning developer with good experience with computer vision. In his words,

"As an engineer, TinkerHub had provided me a platform to use my skills and to work with a community of students to turn ideas into reality. TinkerHub has helped me mould myself into a leader."

Mufeeda C K



(The girl in the right)

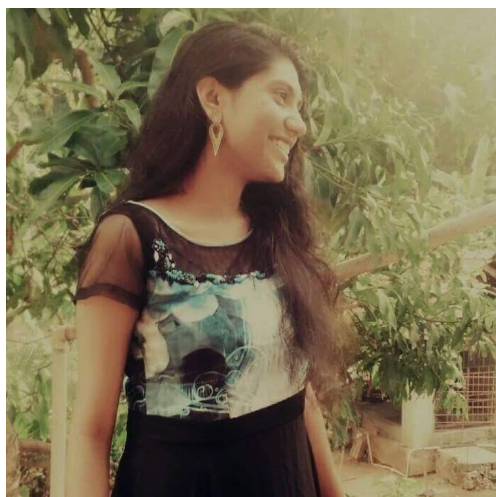
Mufeeda is co-founder of pehia.org and she is part of many communities in Kerala. She is someone who believe in inclusiveness in technology and other areas as well. She is a proud member of tinkershub community.

In her words,

"There are several communities in Cochin. I have worked with few of those communities and my experience with TH is exactly different from others. From my experience I came to realise that this community is trying to mould up a society with technological and social services.

Consist of people from all fields and area...Either you may be a zero or you may be a hero, but definitely you can become a hero from zero, under the guidance of people from this community."

Akshatha Nayak



Akshatha is an extremely talented programmer and community

development enthusiast. She is one of the current leads of tinkershub RIT chapter, In her words, ***"TinkerHub provided me with a lot of networking opportunities, and learning experiences. I met several awesome people whom I can look up to, learn from, and ask for help when I am stuck. The contacts I made through TinkerHub also helped me get several opportunities, which may otherwise not have come my way. The college chapter of TinkerHub at RIT, Kottayam helped me explore my leadership potential, and gave me an opportunity to give back to the students, the benefits I got from being a part of this community."***

TinkerHub Technology Projects

RescueApp - SOS APP for Kerala flood rescue mission.

The screenshot shows the RescueApp interface. At the top, there are toggle buttons for 'മലയാളം' (Malayalam) and 'ENGLISH'. Below this is a section titled 'അറിയിപ്പ്' (Notification) with a paragraph in Malayalam describing the app's purpose: to report flood victims and their locations. It includes a phone number '1070, 1074, 1077' and a field for 'വിളിക്കേണ്ട നമ്പർ' (Number to call). There is a field for 'ആളുകളുടെ എണ്ണം' (Number of people) with the value '1'. Below that is a field for 'നിങ്ങളുടെ സ്ഥലം' (Your location) with the value 'Mundakayam'. At the bottom, there are two buttons: 'തിരുത്തുക' (Edit) and 'സഹായം തേടുക' (Seek help).

During the Kerala flood tinkerhub family did a great job by doing information sharing through social medias to coordinating the refugee camps. The following details are required by rescue teams to do their operations.

- Name of the trapped person
- Location
- Phone number.

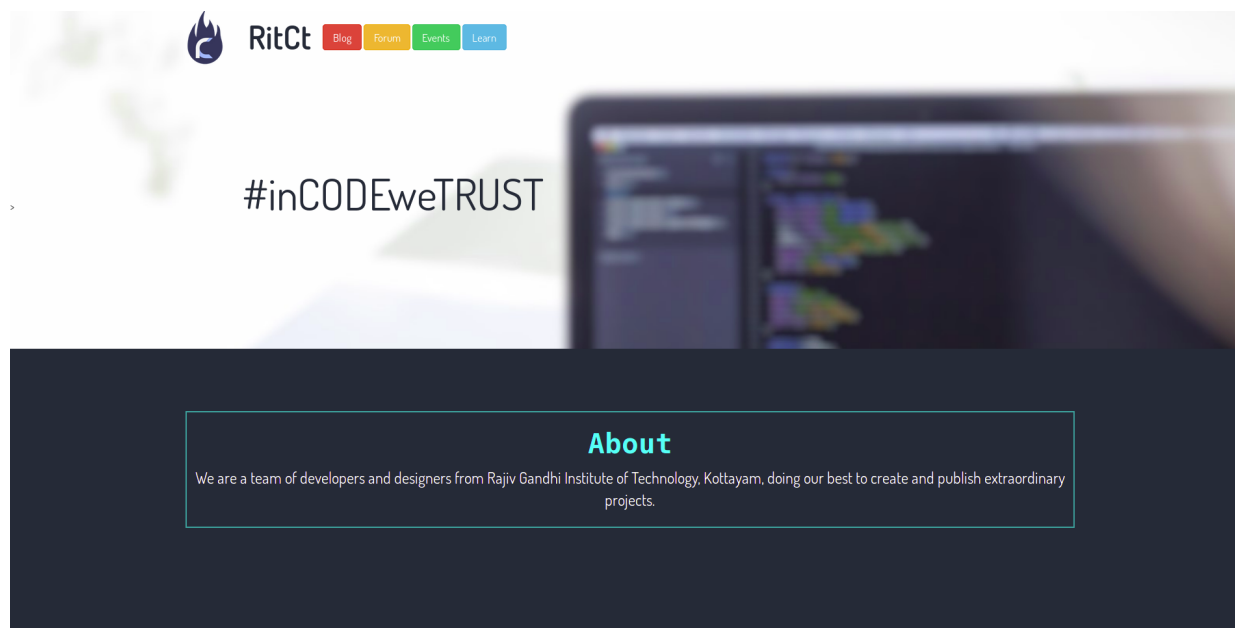
The problem was most of the people don't know how to send this via social medias, especially the location. Gopikrishnan and Jerin in tinkerhub group had an idea about building an app for solving this. Gopi created a WhatsApp group for building this app and shared the link to tinkerhub group. The designers, developers and creative minds joined

the group and that group suddenly became an office space. In less than 24 hours the team built the app. Around 50 people were rescued with this application.

Later this app is modified to do more things like tracking of items in camps,..etc.

www.rescueapp.in

RIT Creative Team Website - *Web Development*



The first collaborative project under Tinkerhub-RIT, the RIT Creative Team website is meant to showcase the projects done by students and also update about events in the college.

The project had a total of 8 contributors and all of them got to learn about front-end development and how to use the git workflow.

<http://ritcreativeteam.ml/>

Malayalam OCR - *AI, computer vision*

Malayalam character recognition is a project built by Hadeeb and team of RIT. He is an active member of tinkerhub-RIT and tinkerhub community helped him to complete this project. The code base was one of the project Praveen Sridhar, tinkerhub co-founder did for OCR recognition in Hindi. Gopikrishnan suggested Hadeeb to build a website for collecting Malayalam image datasets by utilizing the man power of community. Hadeeb shared the app link to community groups and collected the necessary datasets. Later a web client was built to demonstrate the trained Malayalam OCR model.

The dataset for this project is open sourced along with the code.

<https://github.com/RITct/malayalam-character-recognition>

HackerRIT - *Online Programming Platform*

HackerRIT is an online programming platform that is being developed by the students to help students learn to code and to conduct coding contest held under the TinkerHub student chapter.

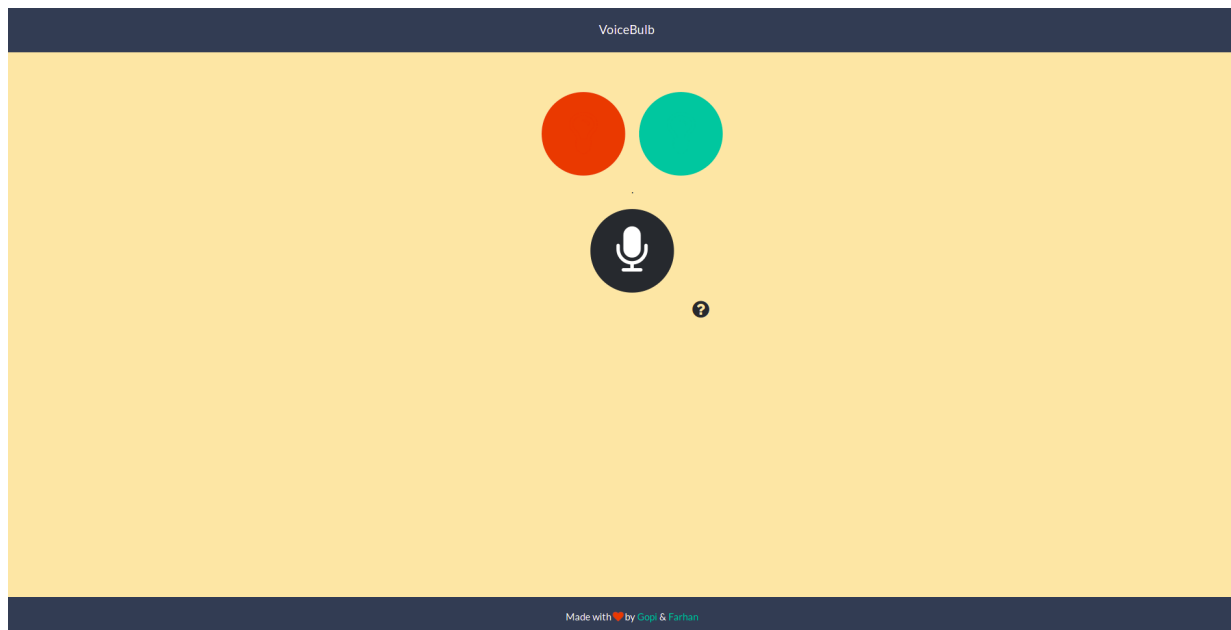
RITA - *Chatbot*



RITA is a chatbot made by Gopikrishnan Sasikumar for assisting in queries related to college and its facilities. The member of the Tinkerhub-RIT community contributed to the project by training the chatbot and providing datasets.

The project was presented at IEDC summit 2017 under Tinkerhub banner.

VoiceBulb - *Artificial Intelligence*



A voice controlled switch to turn on bulbs which uses NLP to decipher the intent from voice inputs was developed by Gopikrishnan and Hadeeb. The project was presented at the project expo during the college technical fest.

Other Partnerships

Product Hunt



Product Hunt is a website that lets users share and discover new products. The site, which was founded by Ryan Hoover in November 2013, is backed by Y Combinator. Users submit products which are listed in a linear format by day. Product hunt is the best showcase place for technology products (mainly websites and SAAS Products).

Product Hunters are a community of technology product enthusiasts, developers and founders of startups in the technology domain. The meetups are the avenues to share

stories of developing products, sessions on growth and other aspects of building a successful enterprise around a technology.

Kerala Product Hunt Meetups

Kerala Product Hunt conducts meetups at Inq innovation and sponsored by TinkerHub. The meetup had turnout of 21 people joining in. Jijo Sunny of Whatrunns, Shyjal of Collect.chat, Saleeh of Appmaker.xyz were few of distinguished people. They shared their product journey, along with question and answers. We also discussed various productivity hacks the makers inculcate in their living.

The Event started from 10am and lasted till 1 pm. The 30 minute break helped everyone to enjoy pizza and network with one another. The event was really good and received lot of appreciation afterwards. There are lot of good

Product makers in Kerala yet to be discovered and bring into limelight.



Tweet about the program

Internet and Mobile Association of India - IAMAI

Founded in January 2004 by leading portals in India, IAMAI is the only specialized industry body in India representing the interests of online and mobile value added services industry.

The association's activities include promoting the inherent strengths of the digital economy, evaluating and recommending standards and practices to the industry, conducting research, creating platforms for its members, communicating on behalf of the industry and creating a favorable business environment for the industry.

#HUDDLE

Huddle India is the focal point for start-ups and tech talent to meet with top tier investors, executive and media hosted by IAMAI. The conference features two days full of stage program, in addition to several side events, talks at networking sessions, roundtable

discussions and facilitated workshops. Our speakers line- up includes successful founders, serial entrepreneurs and investors. The philosophy behind Huddle India is to help the next generation great, world- conquering companies move forward. The very core of the event is to facilitate founder and investor meetings and to build up a huge start-up community. Huddle will primarily focus on the emerging sectors like Block Chain, Crypto Currency, IoT, Gaming and e-Sports, Cyber Security, Digital Entertainment , AR/VR , AI, UI/UX & E-Gov/m-Gov

TinkerHub and IAMAI

TinkerHub being one of the pioneer in tech community activities, IAMAI partnered with us for the outreach and promotion of the program among young technology talents.

