

(Approved by AICTE, recognised by Government of Maharashtra & Affiliated to Univeristy of Mumbai) Department of Computer Engineering Academic Year 2021-22

SMART INDIA HACKATHON 2022

After screening and the batch 4 results, three teams from our college got selected for the final round of SMART INDIA HACKATHON 2022. The details of the teams are as follows:

Team 1:

Team Name:	Team Ananta				
Problem Statement:	Sanskrit voice to text and interface in Google Search Engine.				
Problem Statement	AD976				
Number:					
Team Leader:	Jayesh Vinod Bafana				
Team Members:	Jay Abhay Chaudhari				
	Vinit Dwarikanath Jha				
	Pranav Hemant Dave				
	Jaanvi Dileep Nambiar				
	Bijal Nitesh Bharadva				
Nodal Center:	Jai Bharath College of Management and Engineering				
	Technology,Kerala				

Team 2:

Team Name:	Binary Brain			
Problem Statement:	Solution to prevent copyright			
	infringement/piracy/plagiarism of NCERT text books			
Problem Statement	RK785			
Number:				
Team Leader:	Pooja Vimal Sharma			
Team Members:	Tushar Vaman Amdoskar			
	Nikita Krishnadev Dubey			
	Deep Madhab Coomer			
	Vishruta Bhupesh Patil			
	Devansu Mahendra Yadav			
Nodal Center:	KLE Technological University, Karnataka			



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Team 3:

Team Name:	Innvovaors
Problem Statement:	Use of technology in overcoming language barriers.
Problem Statement	LC1075
Number:	
Team Leader:	Saloni Swaroop Joshi
Team Members:	Zalak Nehal Gandhi
	Mansi Ravindra Kargutkar
	Khushi Rakeshkumar Pal
	Hiralal Umesh Kumar
	Yash Chande
Nadal Center:	Sikkim Manipal Institute of Technology, Rangpo, Sikkim



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#SmartIndiaHackathon



World's Biggest Open Innovation Model



PRANAV DAVE

JAY CHAUDHARI JAYESH BAFANA TINIV AHL JAANVI NAMBIAR BIJAL BHARADVA

Team Ananta - Finalist for SIH 2022 BATCH 2 RESULTS



#SmartIndiaHackathon





Team <u>Binary Brain</u> from Atharva College of Engineering short-listed for SIH 2022

BATCH 3 RESULT



Pooja Sharma Nikita Dubey Vishruta Patil Devansu Yadav Deep Coomer Tushar Amdoskar



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TEAM INNVOVAORS-FINALIST FOR SIH-2022 BATCH-4 RESULTS













Mansi Kargutkar

Khushi Pal

Zalak Gandhi

Saloni Joshi

Hiralal kumar

Yash Chande

Report Prepared By,

Prof. Mahendra Patil (SPOC SIH 2022) Prof. Prajakta Pawar (SIH Coordinator)



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SMART INDIA HACKATHON 2019 (Winners)

TEAM 1

TEAM NAME:	Vengers(winners)					
BRIEF IDEA:	leveraging the use of Augmented Reality In large retail stores/malls, so that customer would have his/her personal bot assistant which can help them to navigate through the place and also provide Content Rich 3D promotional					
	messages.					
TEAM MEMBERS:	Krunal gediya					
	Saurabh Soparkar					
	Mrityunjay Mishra					
	Akash Mishra					
	Prem Raval					
	Reeya Nand					

TEAM 2

TEAM NAME:	//TO DO:(winners)					
BRIEF IDEA:	The was program powered by Machine					
	Learning, Artificial Intelligence and Deep					
	Learning to give the answer to all questions					
	related to the progress of any event. With This					
	program it will be just a few clicks that one					
	would need to know how well the event is					
	performing or not. With Augmented reality					
	backing up the program and having a glimpse of					
	the event on phone is possible.					
TEAM MEMBERS:	Abhishek Bandivadekar					
	Trishala Ahalpara					
	Kunal Kasa					
	Ajit Goud					
	Jatin Jawale					



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Vinay Addagatla

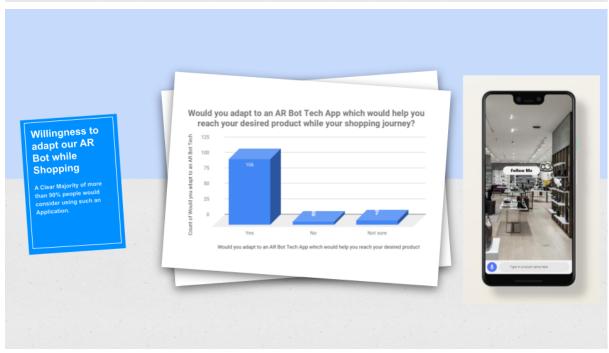






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SIH 2019 - Idea Proposal

Ministry / Organization: Infosys
 Problem Statement ID: #IN3

Problem Statement Title: <u>Autonomous Bot for Retail</u>

• Team Name: </>vengers

Introducing Al Enabled Augmented Reality Autonomous Personal Bot:

- In large retail stores/malls, navigating to your desired product might get confusing sometimes.
 Even though most of the retail stores are well organized, location of specific product is not known to users most of the time.
- While we can develop hardware robots that roam around the place for quick assistance to help us find our product, we cannot match the supply to demand, as allotting one bot per customer is impractical, absurd and not at all feasible.
- · Wherein, we are leveraging the use of Augmented Reality to overcome this issue.
- Using this idea, each customer would have his/her personal bot assistant which can help them to navigate through the place and also provide Content Rich 3D promotional messages.

Description of Idea / Solution:

We are proposing a Technology-Rich effective solution to address the problem.

- Our solution will be a "Smart-phone Application" which will work across both Android as well as iOS devices.
- It will be an Augmented Reality enabled app which will allow a user to input the product name by typing or using the built-in Voice Recognition service.
- A User will have to first use any sync points (QR code based) to align the Real-World and Virtual-World for navigational purpose.
- It will then use the Artificial Intelligence algorithms (Dijkstra's) to compute an Optimal path from the user's current location to the destination where the desired product is located.
- User will be accompanied by a "Virtual Augmented Personal Assistant" (VAPA) which will help him/her navigate throughout the store.
- Along with navigation, VAPA will also provide the user with an optional promotional 3D messages such as current
 offers running in the store, product price info, etc.
- We can also extend this solution to provide users with information about the various food products such as nutritional info, ingredients, composition etc. by just looking it through Smart-phone camera and without actually picking it up.
- Some extra toppings which would be enabled by VAPA would be seasonal in-store AR games/contests etc. which can really help maintain customer loyalty and to provide some exclusive offers/prizes.



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Description of Technology Stack & Dependencies

Technology Stack

- Navigational System: Anchored System, SLAM (Simultaneous Localization and Mapping)
- Artificial Intelligence Algorithms: Dijkstra's Pathfinding Algorithm
- Augmented Reality: Arcore, Plane Detection (Android), Unity3D, ARKit (iOS), Placenote SDK (iOS)
- 3D Modelling: Blender, Paint3D, Unity3D
- · Voice Recognition: SSML (Speech Synthesis Markup Language), Amazon Lex, Google Cloud Speech API
- · Scripting Language: C#

Dependencies

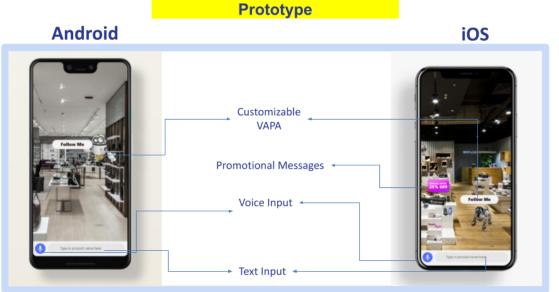
- ARKit supported iOS devices.
- Android 5.0+ devices with suitable sensors & 5.0 MP+ Camera.

Transform.position.x.y.z attribute access coordinates editor, VS Code Scripting String cache in in editor Firebase Cache for Demo on canvas. List to adjacency matrix,

System Description Diagram Users will open the app and scan any of the QR code enabled sync points physically present in the store to align the Virtual World with Real **User Side** World for Navigational Purpose. Location Users can resync anytime in a case Client Side AR App **Cloud Storage Syncing** of any misalignment Main application Stores Map Data interface which will be used by navigation purpose. Users can type in their desired product name to compute the navigational path to the same. Also user can make use of in-built speech recognition service backed Speech/Text by Cloud Speech API enriched by Input Display SSML to achieve the same without hassle to type. Smartphone Camera output with Augmented Elements which will help user navigate, display promotional messages, also optional games entertainment engagement.



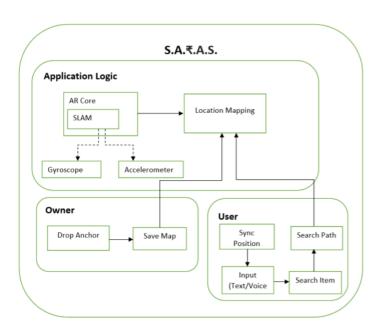
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**Creative Visualizations | May change during actual implementation



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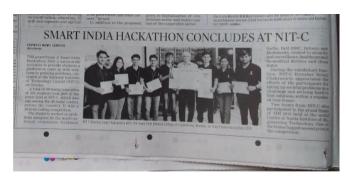














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