



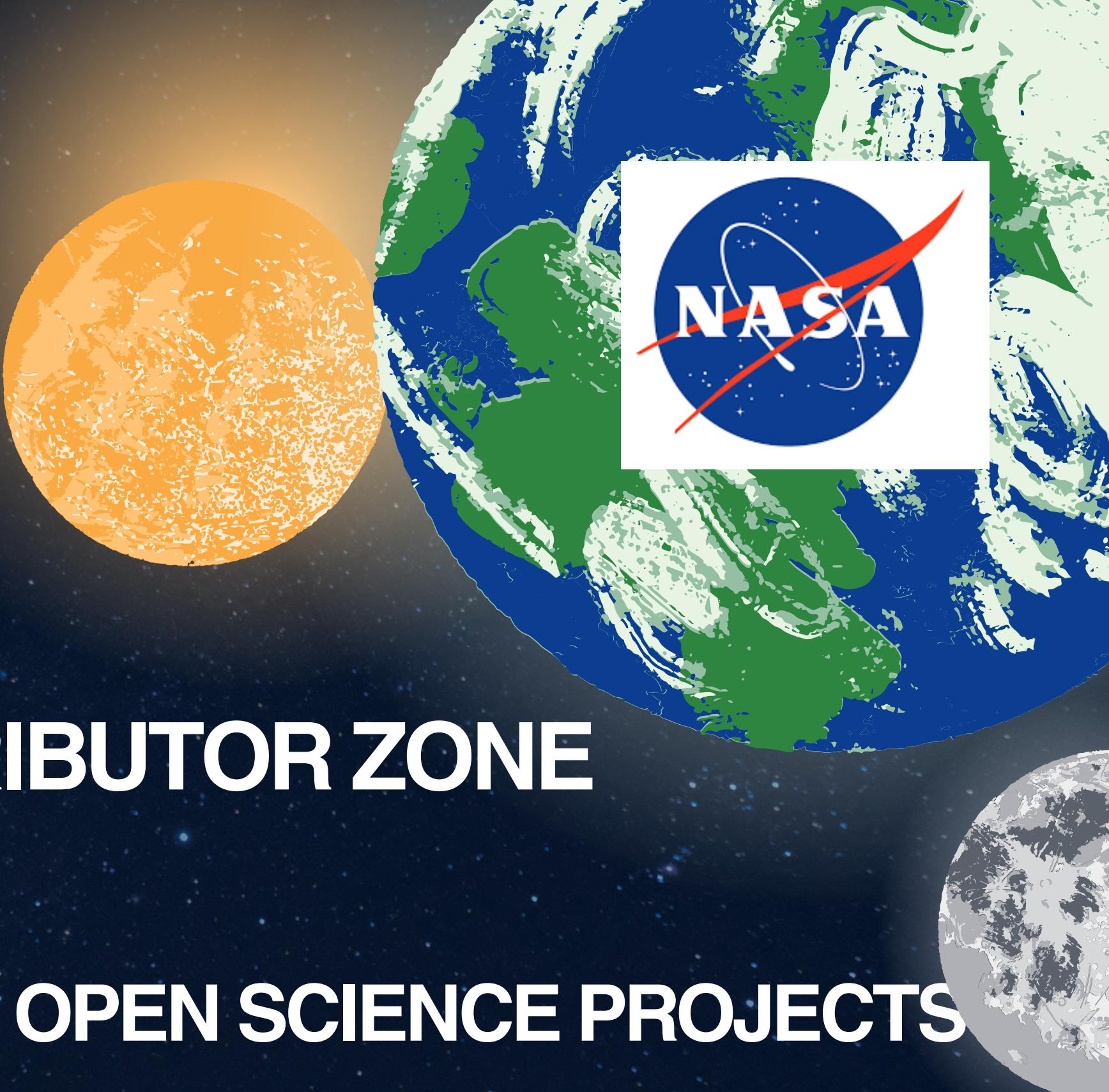
GAMAN
Present...

NASA PROJECT CREATOR + CONTRIBUTOR ZONE

CHALLENGE: A MARKETPLACE FOR OPEN SCIENCE PROJECTS

NASA SPACE APPS CHALLENGE 2023

In collaboration
with **NASA**



PAIN POINT

Currently, there is no place online for project creators and skilled participants to find each other, mingle, and foster professional relationships to work on interesting open research projects.



Also, This is another Pain Point...

For contributors, who want to search for open science projects in NASA & Space Agency Partner Web, will be challenging to find detail of project and data, since it's too sophisticated and too much materials in one page.

The image displays two screenshots of web pages related to citizen science and open science projects.

Top Screenshot: A screenshot of the "Federal Crowdsourcing and Citizen Science Catalog" at <https://www.citizenscience.gov/catalog/#>. The page title is "Federal Crowdsourcing and Citizen Science Catalog". It states that projects listed are validated by federal employees and shows a count of "Number of Projects: 503". There are two download buttons: "Download as CSV" and "Download as JSON". Below these are three project cards: "Chesapeake Water Watch" (Status: Active - recruiting volunteers, Geographic Scope: Tidal regions of the Chesapeake Bay), "Cooperative Tagging Center" (Status: Active - recruiting volunteers, Geographic Scope: Atlantic Ocean, Gulf of Mexico, and adjacent...), and "Are we alone in the..." (Status: In Planning or Pending - recruiting volunteers, Geographic Scope: Worldwide). Each card includes a NASA logo.

Bottom Screenshot: A screenshot of the "GeneLab: Open Sci..." page at <https://genelab.nasa.gov>. The page title is "GeneLab: Open Sci...". It features a grid of project thumbnails under sections like "TRANSCRIPTOMICS", "GENOMICS", "PROTEOMICS / METABOLOMICS", and "PROCESSED". Each thumbnail has a small icon and a brief description. Below the grid are sections for "WATCH" (GeneLab Chats Interviews Dr Chris Mason) and "PUBLICATIONS" (Skeletal muscle gene expression dysregulation in long-term spaceflights and aging is clock-dependent).



We want to upgrade the
concept of marketplace in
open science projects in
NASA environment...

NASA PROJECT CREATOR + CONTRIBUTOR ZONE (FEATURE NO.1)

NASA Open Science Project Creator + Contributor Zone

A Project by GAMAN for NASA Space Apps Challenge 2023

We want to create a marketplace for open science projects so that open science projects will be more accessible for everyone who eager to contribute to science projects related to their interests. Also, we want to build a marketplace for project creators to find creators who match with all skills & expertise required in the project. We will be building this marketplace in web application using Machine Learning, Large Language Model (LLM), Generative AI and Natural Language Processing (NLP).

We are hoping that all interactions between project creators and contributors in any NASA Open Science Project will become more accessible, interactive, and fun. In addition, this web app will make NASA Open Data become easier to find and more organized.



NASA Open Science Project Creator + Contributor Zone

Elaborate the details below to look for many Open Science Project opportunities!

Please wait and be patient!

Select a project location where you are interested in:

Florida

Select a agency sponsor or institution that you are interested in:

U.S. Environmental Protection Agency (EPA)

Select the top 10 fields of science of your expertise:

Nature and outd... Ecology and envi...

| Project | Description | Location | keywords | email |
|--------------------------|--|----------|---|-----------------------|
| Florida Keys Water Watch | The University of Florida IFAS Monroe County Extension developed Florida Keys Water Watch, a community-based volunteer water quality monitoring program to promote awareness of the importance of water quality, reduce nonpoint source pollution, and involve students and citizens to monitor coastal habitats from man-made canals to bays to beaches. Florida Keys Water Watch teaches volunteers to test a site of their choice for dissolved oxygen, pH, salinity and temperature after attending a 4-hour workshop. | Florida | water quality, dissolved oxygen, pH, salinity, Florida Keys, South Florida, coastal | shellykrueger@ufl.edu |

First feature, we have developed Machine Learning to arrange the list of open science projects in NASA to be easier for potential contributors to track available open science projects. We use several parameters such as: project ID, Name of Project, Project URL, Project Description, keywords, fields of science, agency sponsor, govt contact name, email, geographic scope, participant tasks, start date, and so on...

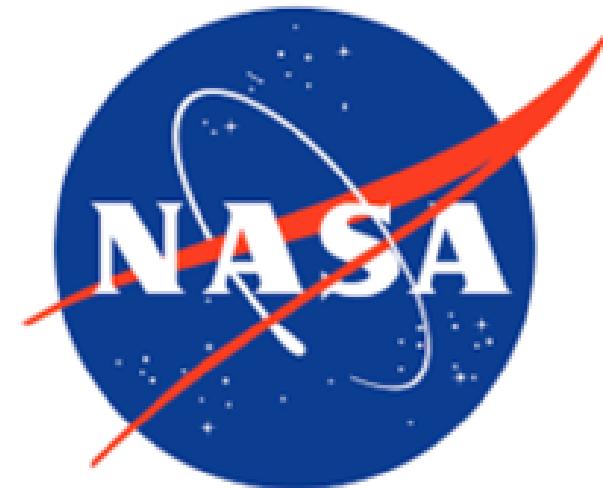
This is the Link of App for feature 01:
Just Click
<https://nasaproject2023-dzgwiak2nirgiw4ibixxjc.streamlit.app>

For the demo, we have built this Web App in Streamlit

NASA PROJECT CREATOR + CONTRIBUTOR ZONE (FEATURE NO.2)

I've been invited to have a conversation with NASA-MAN
to create your own? [Get Started.](#)

ersation ✨ by Voiceflow



Welcome to AI Chatting Bot Advisor on NASA Open Science Project Creator + Contributor Zone!

This Web App is being developed by GAMAN, thanks to the Hackathon event of NASA Space App Challenge 2023.

Type a message...

In our AI Chatting Bot, we facilitate project creators and contributors to looking for all information such as what the latest update for open science project available in certain region, or how many potential contributors are ready to fill the position of particular fields of science and so on.

Our second feature, we have developed AI Chatting Bot as a complement to what we already built in feature no.1

today!

Second feature, for potential contributors, we will navigate you to find the suitable list of Open Science Projects for you!

Third feature, for project creators, we will be guiding you to find the suitable potential contributors whose qualifications match with your project.



Please choose the menu from buttons below!

[Open Science Project Opportunities Description](#)

[Open Science Project Section for Contributors](#)

[Open Science Project Section for Project Creators](#)

This is the Link of App for Feature 02:
Just Click

<https://creator.voiceflow.com/prototype/65228db78a17c2d6818ac808>

NASA PROJECT CREATOR + CONTRIBUTOR ZONE (FEATURE NO.2 CONTINUED)

A screenshot of a mobile-style AI chat interface. At the top, a message from the bot says: "Please try! Just ask the question regarding the potential contributors!" Below it is a blue button labeled "Tell me about Lionel". A large text block provides information about Lionel: "Lionel is currently pursuing a master's degree in Astronomy at the University of Colorado. He has a strong background in data classification and has gained relevant work experience in this field. As a potential contributor to NASA's Disk Detective project, Lionel's expertise in the science of Astronomy and Space makes him a suitable candidate for tasks such as classification or tagging, as well as data analysis." At the bottom, there's a message with an ID: "This is the ID of your question: d31f4200-0892-4088-9a6e-d71f8085dbb2". A question from the user asks: "Do you want to ask another question?". A text input field says "Type a message...". A blue send button with a white arrow is on the right.

Let say there are 3 potential contributors, Lionel, Cris and Kylian.

Our AI Chatting Bot help the project creators to do profiling to those three potential contributors.

Our AI Chatting Bot also has encrypted for every chat in order to prevent or minimize the leak of data

A screenshot of the same AI chat interface for Kylian. The bot message is identical to the one for Lionel. The user's question "Do you want to ask another question?" is followed by a "Yes" button and a "No" button. A text input field with "Type a message..." and a blue send button are at the bottom.

This is the Link of App for Feature 02: Just Click

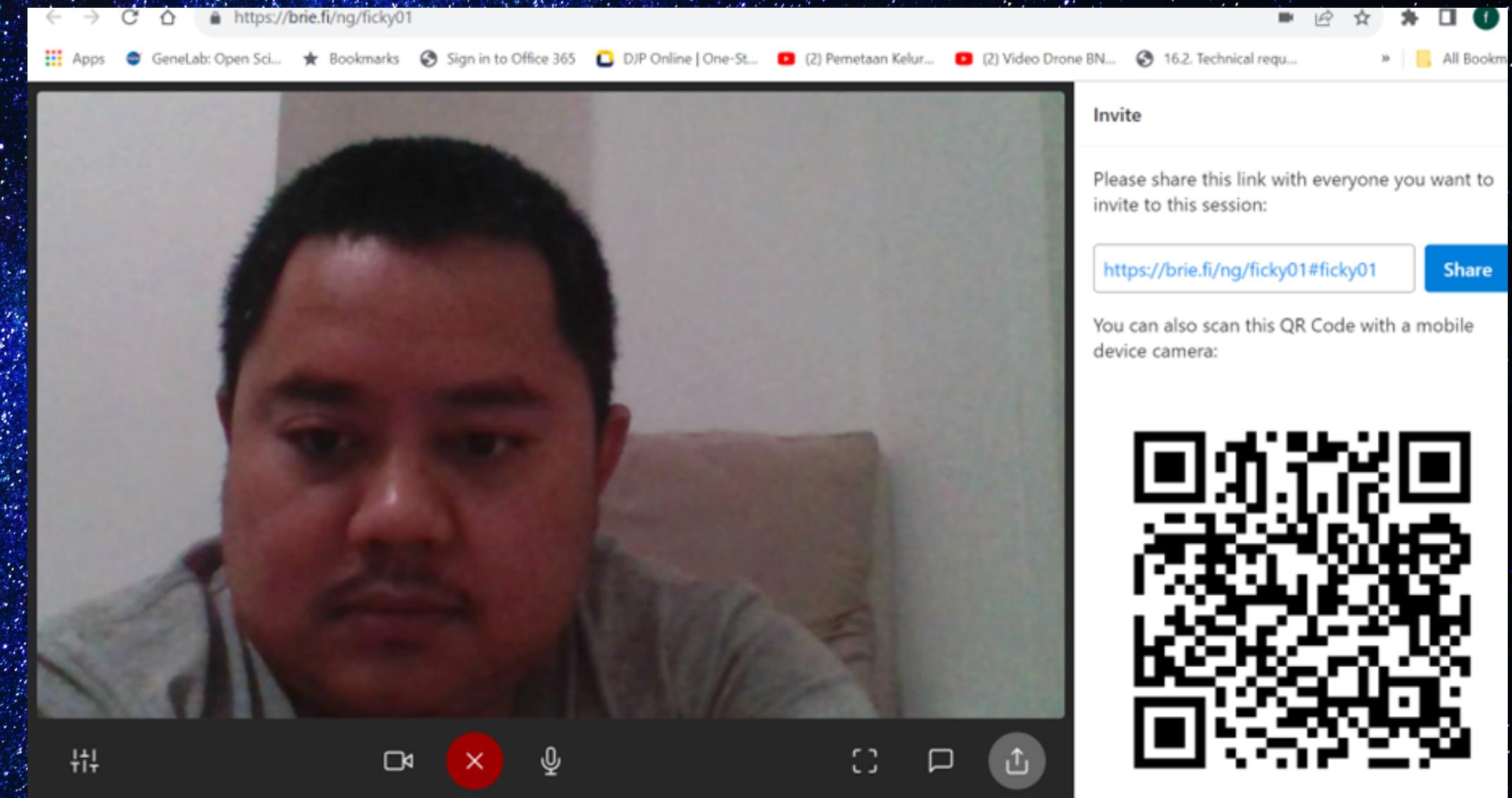
<https://creator.voiceflow.com/prototype/65228db78a17c2d6818ac808>

NASA PROJECT CREATOR + CONTRIBUTOR ZONE (FEATURE NO.3)

Last feature, we provide communication tools for chat and video call between project creators and contributors.

This is the Link of App for Feature 03:
Just Click

<https://brie.fi/ng/ficky01#ficky01>





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- Front-End & Back-End Development - META
- Machine Learning with Python & Linear Models to Deep Learning – MIT
- Fundamental of Statistics & The Science of Uncertainty Data –MIT
- Data Science: Inference & Modeling - Harvard
- Data Science: Probability - Harvard
- Data Science: R Basic - Harvard
- Blockchain Technology Certificate - University of California Berkeley
- Solana Blockchain Developer Program - Solana Labs
- Foundations of Project Management Certificate - Google
- Developing & Deploying an Internet of Things (IoT) – AWS
- Python for Natural Language Processing (NLP) – Udemy
- Practical Hands-on Guide for Alexa Skill Development – AWS
- Google Voice Assistant Development - Google



Thank you
very much!