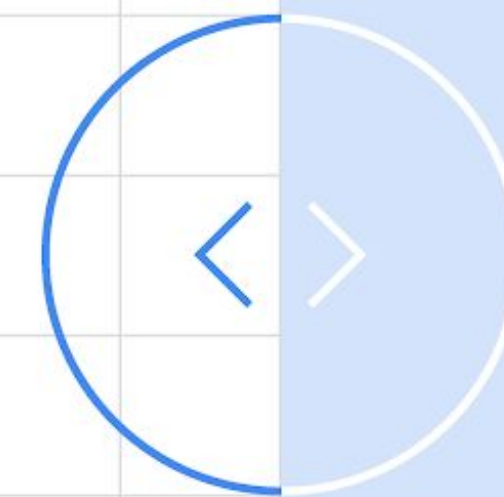


2021 Google Solution Challenge

Solution Challenge

Enabling student developers across the globe to build real solutions for real problems.



Daniel Fiorillo: or Danny

DSC Community Manager

LinkedIn Profile:

<https://www.linkedin.com/in/djf19/>

Twitter:

[@SazzPapa](https://twitter.com/SazzPapa)



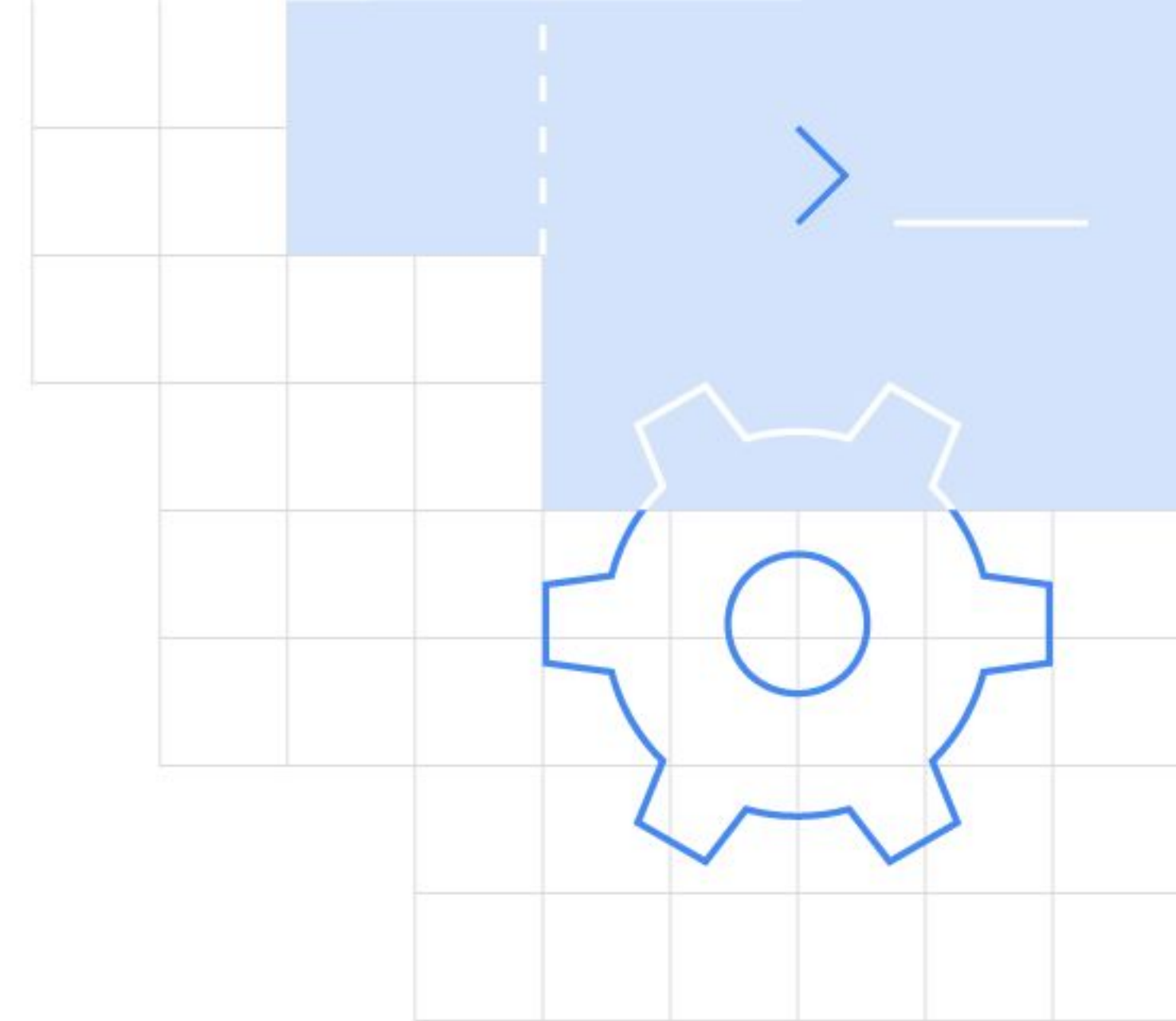
Student solution challenge



What is it?

This sounds interesting...

An **annual contest** that invites students from **DSC communities** to develop **solutions for local community problems** using one or more **Google products or platforms**.



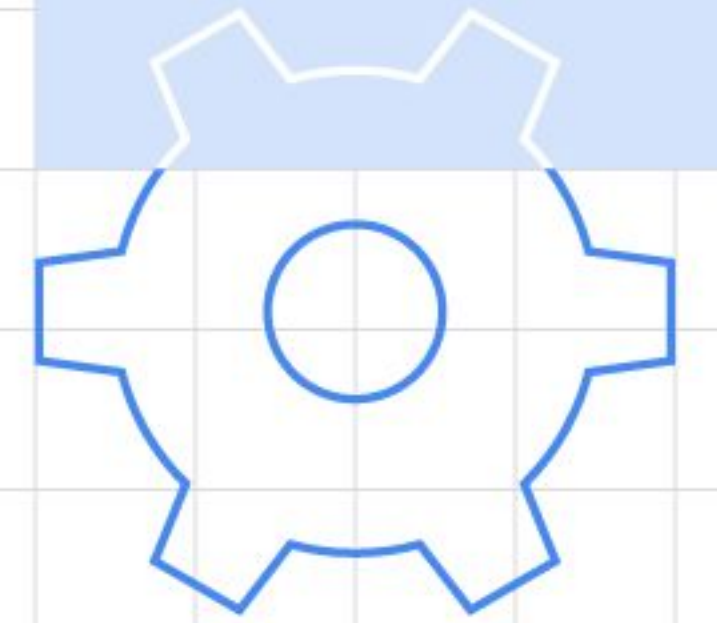
Why do it?

I can get behind this!

Enable hands-on learning and inspire student developers to come together as a global community, learn, and build real solutions for real problems.



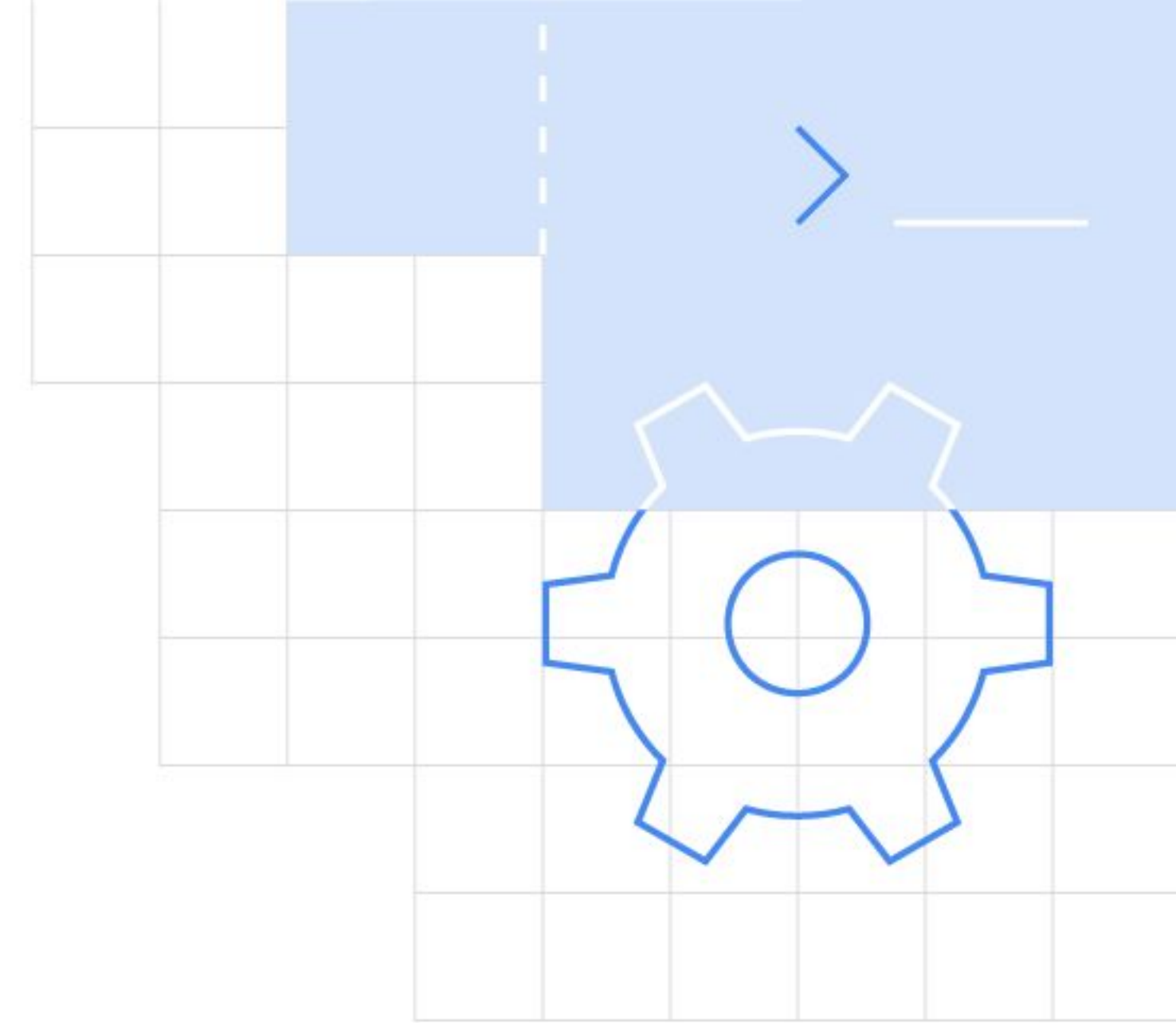
Developer Student Clubs



When does it start?

We are getting excited...

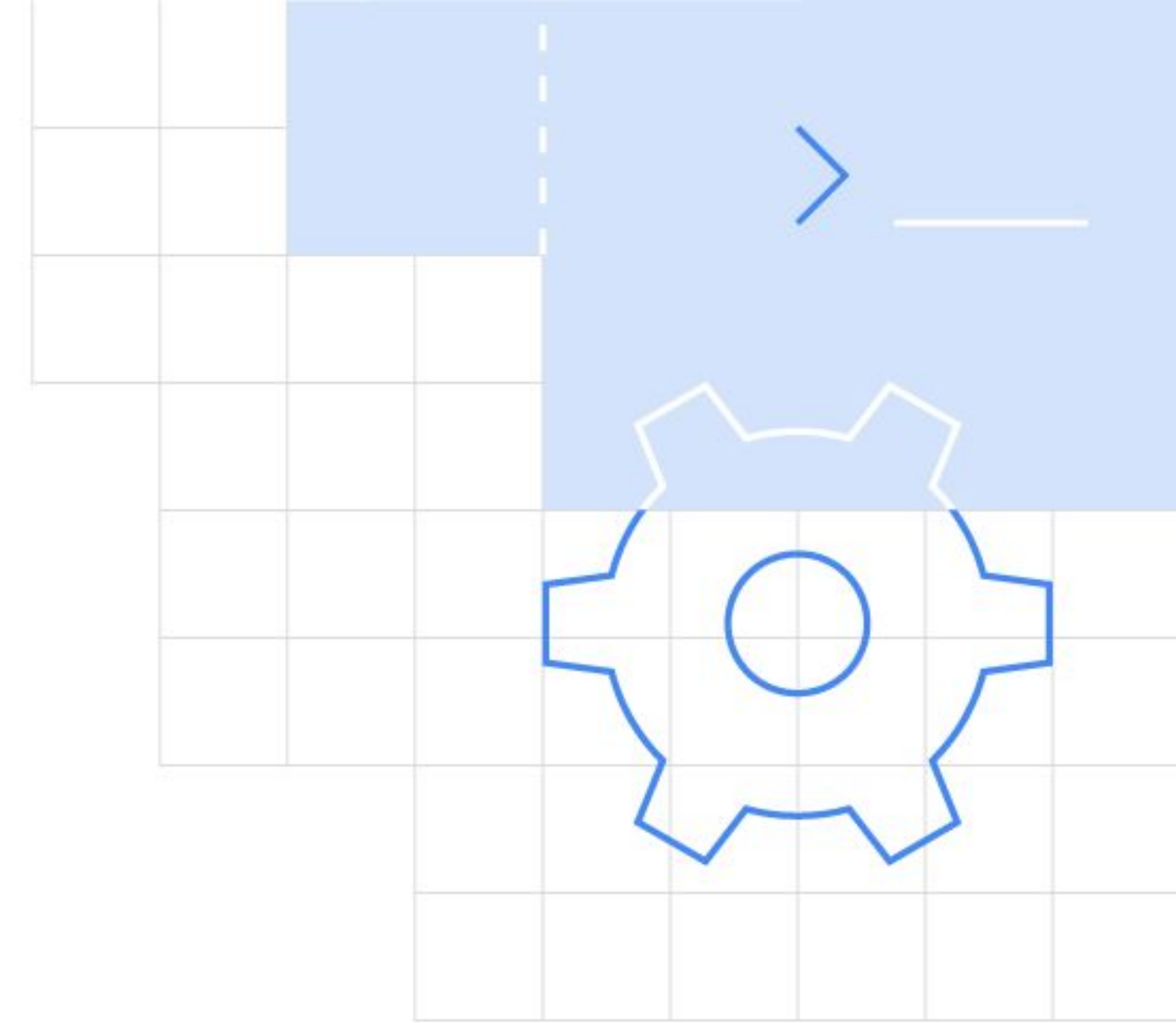
January 2021



When does it End?

We are getting excited...

March 2021



How will we build things?

The DSC Solution Challenge

This is an annual competition open to DSC Leads, Core Team members and others building solutions under mentorship umbrella of a DSC. The solution must be built on Google's technologies and must address a local problem faced by a business, organization, NGO etc. Registration opens early January 2021.

Scan me for more information!



Rules

- Must be over 18
- 4 team members [max]
- Must be a DSC member of any university
- Use at least 1 Google technology
- Project must be built during your academic year
- More at <https://events.withgoogle.com/dsc-solution-challenge/>

Evaluation Criteria

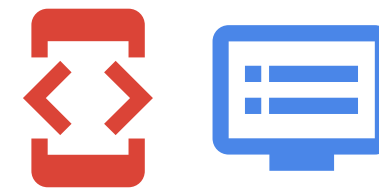
And... the winners are...

Impact [50]



- a. Does the entry establish a clear challenge faced in the team's local community? Is it explained in a clear manner? [10]
- b. Is there evidence that the solution has been thoroughly tested with real users? [10]
- c. Is there evidence that the solution was iterated upon based on user feedback? [10]
- d. Will this solution improve people's lives? [10]
- e. Is there evidence of a next step... does the team display a plan for future extension if they were to continue [10]

Technology [40]



- a. Does the solution address the challenge identified by the team? [10]
- b. Does the solution make effective/appropriate use of the features of the chosen Google Product or platform? [10]
- c. Does the video demonstration show the working application and how a user will interact with the solution? [10]
- d. Has the team clearly explained what Google technology they used, why and included guidance on how to run their code? [10]

Scalability [10]



- a. If successful, can the solution be scaled using the cloud technology infrastructure for more users and in other regions? [10]

Evaluation Criteria

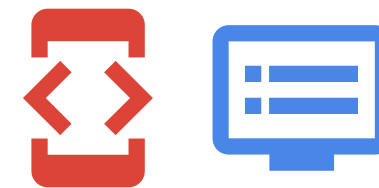
And... the winners are...

Impact [50]



- a. Does the entry establish a clear challenge faced in the team's local community? Is it explained in a clear manner? [10]
- b. Is there evidence that the solution has been thoroughly tested with real users? [10]
- c. Is there evidence that the solution was iterated upon based on user feedback? [10]
- d. Will this solution improve people's lives? [10]
- e. Is there evidence of a next step... does the team display a plan for future extension if they were to continue [10]

Technology [40]



- a. Does the solution address the challenge identified by the team? [10]
- b. Does the solution make effective/ appropriate use of the features of the chosen Google Product or platform? [10]
- c. Does the video demonstration show the working application and how a user will interact with the solution? [10]
- d. Has the team clearly explained what Google technology they used, why and included guidance on how to run their code? [10]

Scalability [10]



- a. If successful, can the solution be scaled using the cloud technology infrastructure for more users and in other regions? [10]

Evaluation Criteria

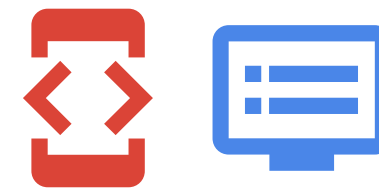
And... the winners are...

Impact [50]



- a. Does the entry establish a clear challenge faced in the team's local community? Is it explained in a clear manner? [10]
- b. Is there evidence that the solution has been thoroughly tested with real users? [10]
- c. Is there evidence that the solution was iterated upon based on user feedback? [10]
- d. Will this solution improve people's lives? [10]
- e. Is there evidence of a next step... does the team display a plan for future extension if they were to continue [10]

Technology [40]



- a. Does the solution address the challenge identified by the team? [10]
- b. Does the solution make effective/appropriate use of the features of the chosen Google Product or platform? [10]
- c. Does the video demonstration show the working application and how a user will interact with the solution? [10]
- d. Has the team clearly explained what Google technology they used, why and included guidance on how to run their code? [10]

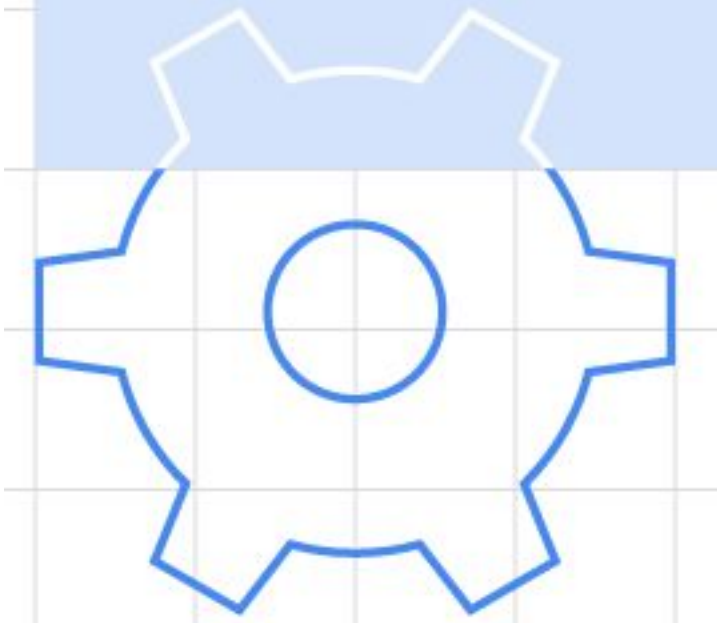
Scalability [10]



- a. Can the technology, in its current form or with minor structural changes, support more users, new regions, and increased scale often attributed with success and growth? [10]"

Terms & Conditions

Bookmark this!

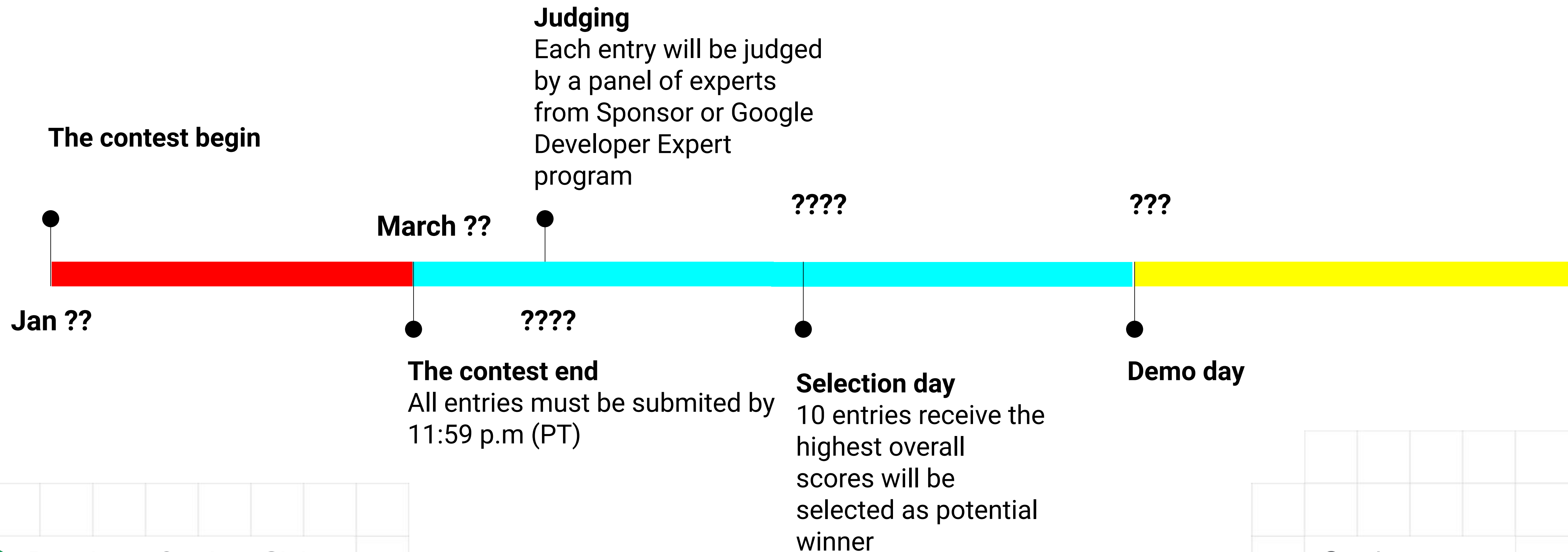


goo.gle/solutionchallenge/

Timeframe and Important dates

Google Solution Challenge 2021

(Tuan)



Timeframe and Important dates

Google Solution Challenge 2021

(Tuan)

To find out when important dates are released for this year's Solution Challenge, bookmark the [Official Solution Challenge website](#) and check regularly for updates, and [join the PSU DSC](#).

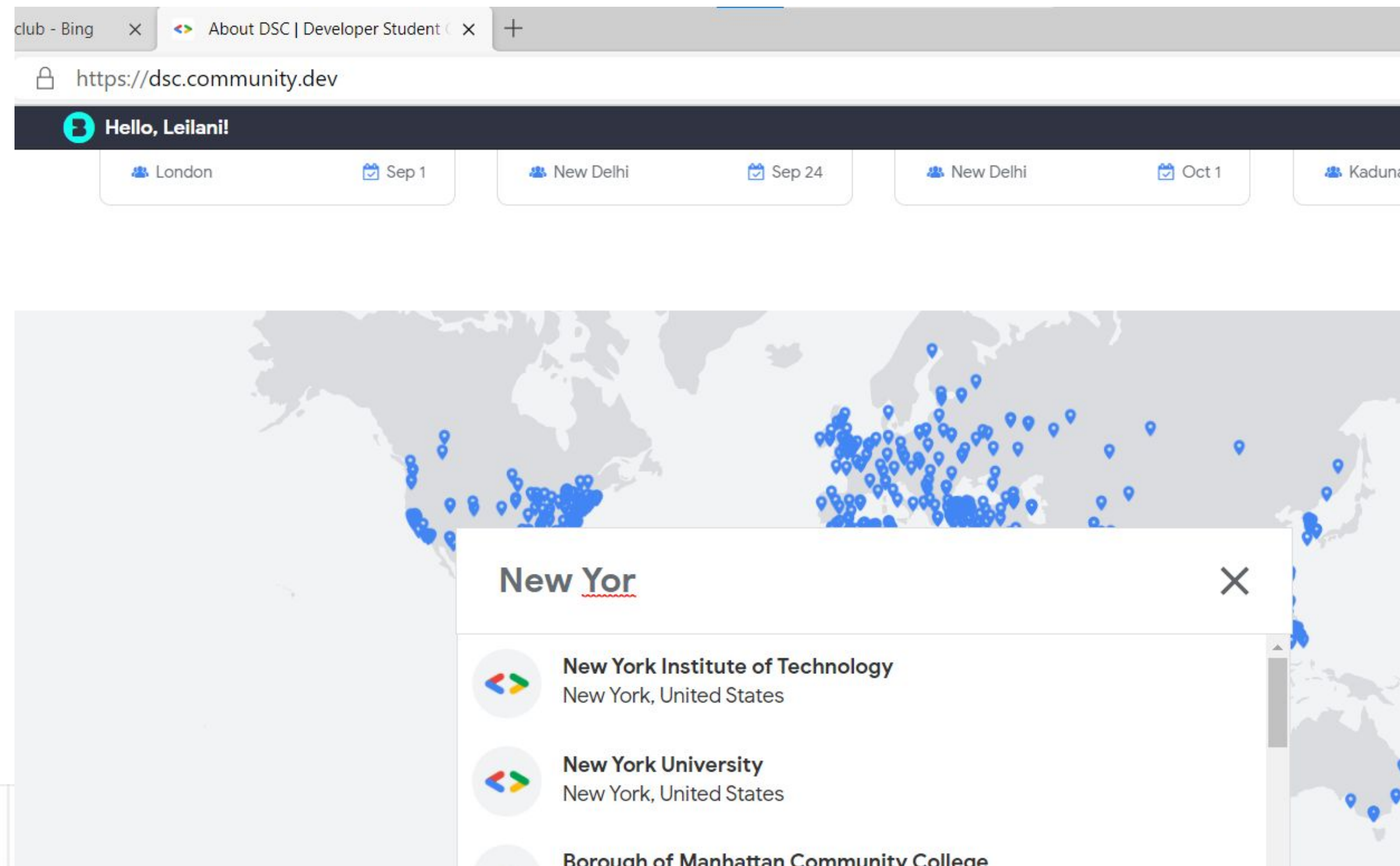
Benefits of Participating In the Solution Challenge 2021

- Networking with Googlers, Experts and big companies
- Mentor from Google Expert Program
- Use Google technology for free
- Learn new skills and technologies
- Push yourself out of comfort zone
- Actually build an amazing project
- Many more opportunities...

How to Register with a DSC

(Tuan)

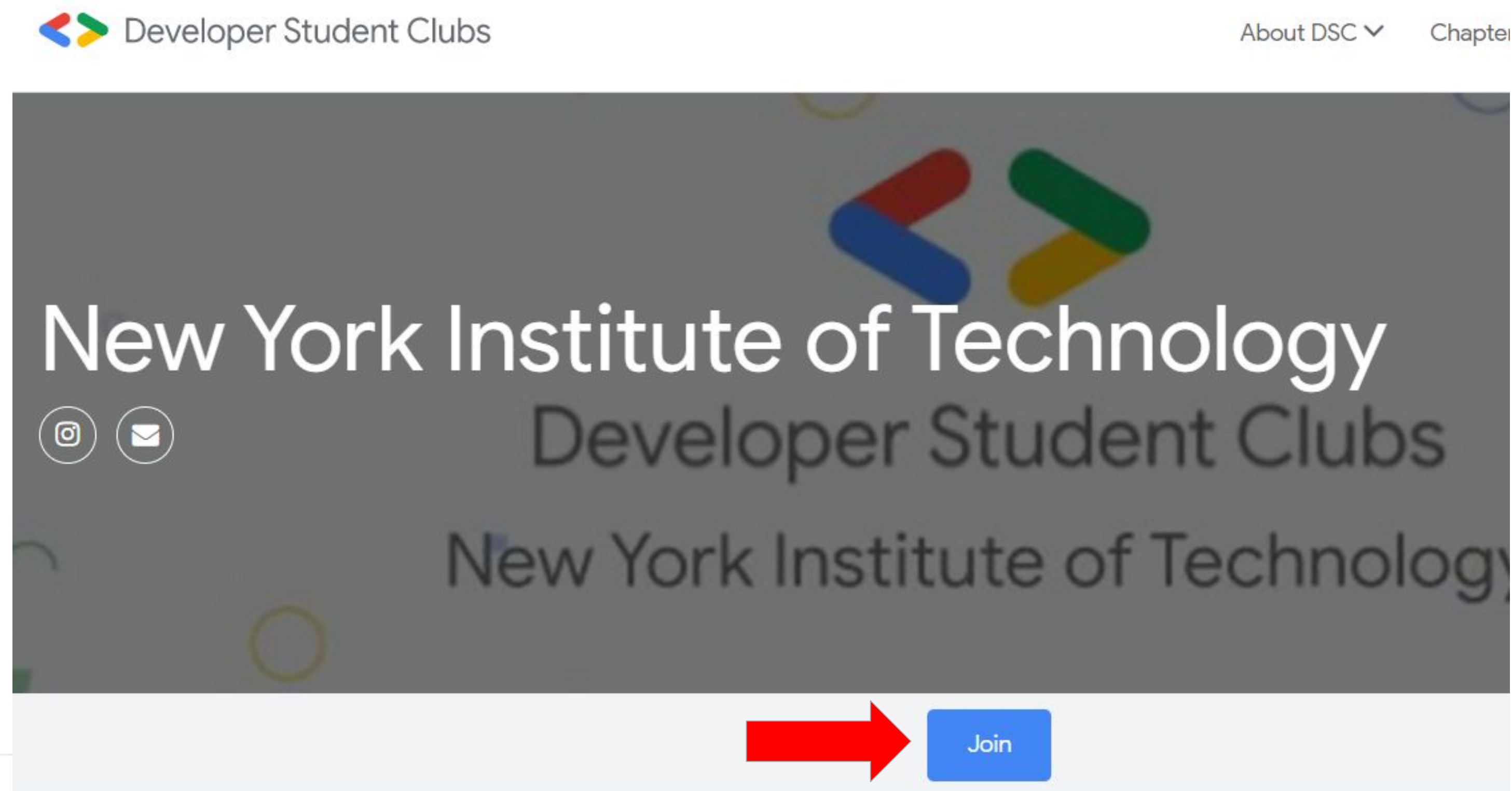
Go to dsc.community.dev



How to Register with a DSC

(Tuan)

Go to dsc.community.dev



Solution Challenge 2021 Topic: United Nations Goals



Your Solution Challenge 2021 project must align with **one** of the [17 United Nations Goals listed here](#)

THE 17 GOALS

169
Targets

1034
Events

1221
Publications

5285
Actions



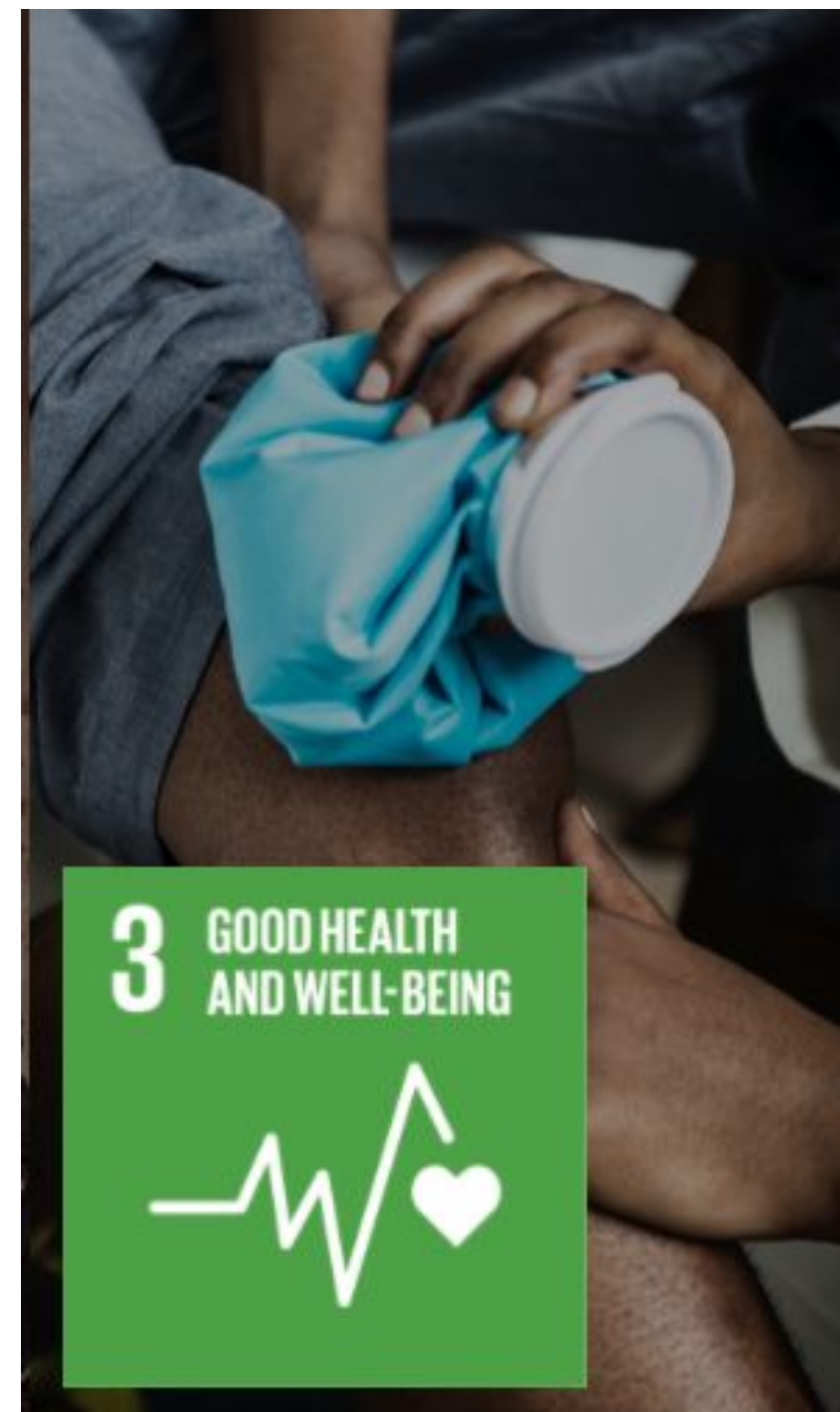
+ more!!

Google Developers

United Nations Goals



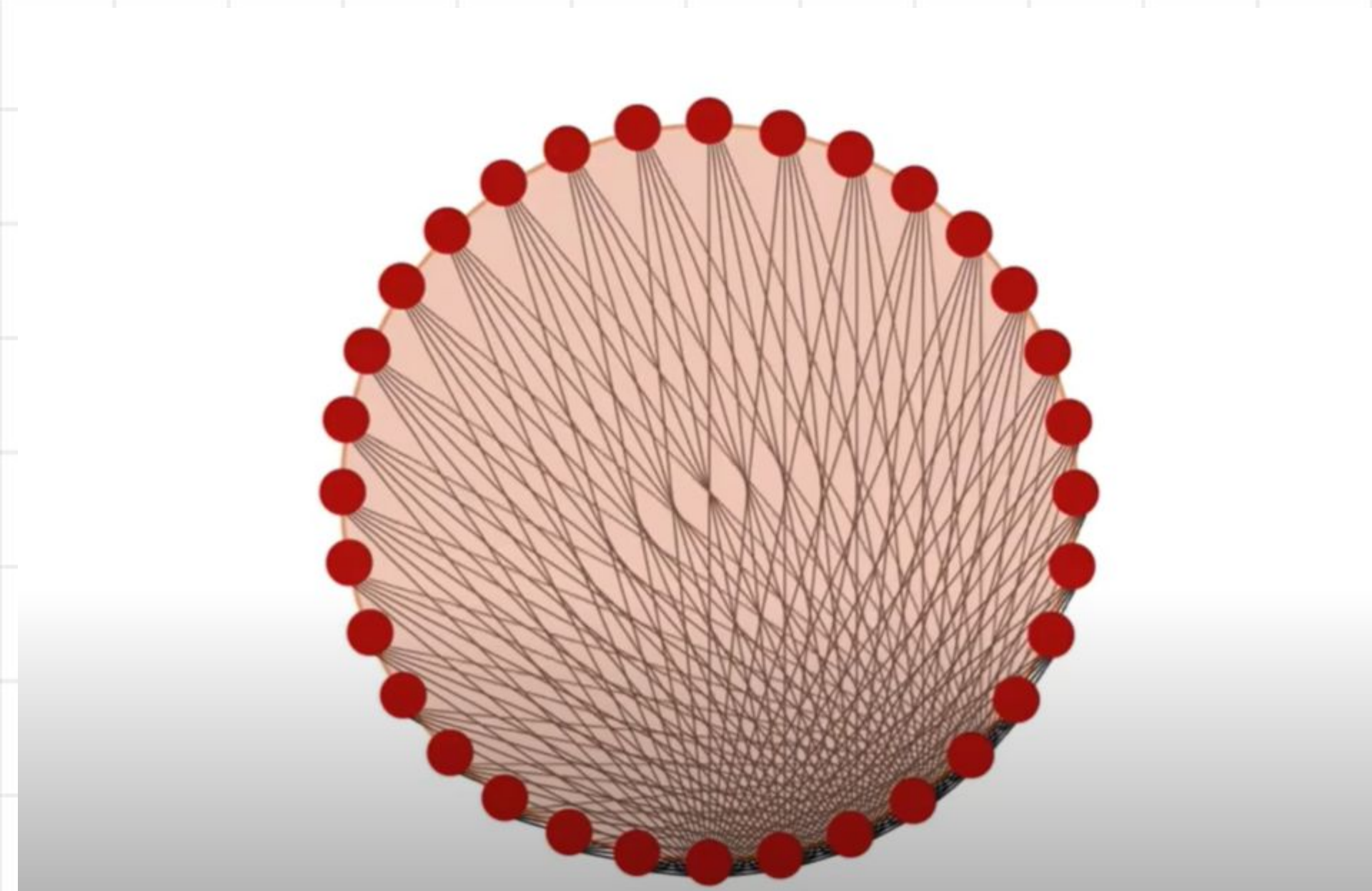
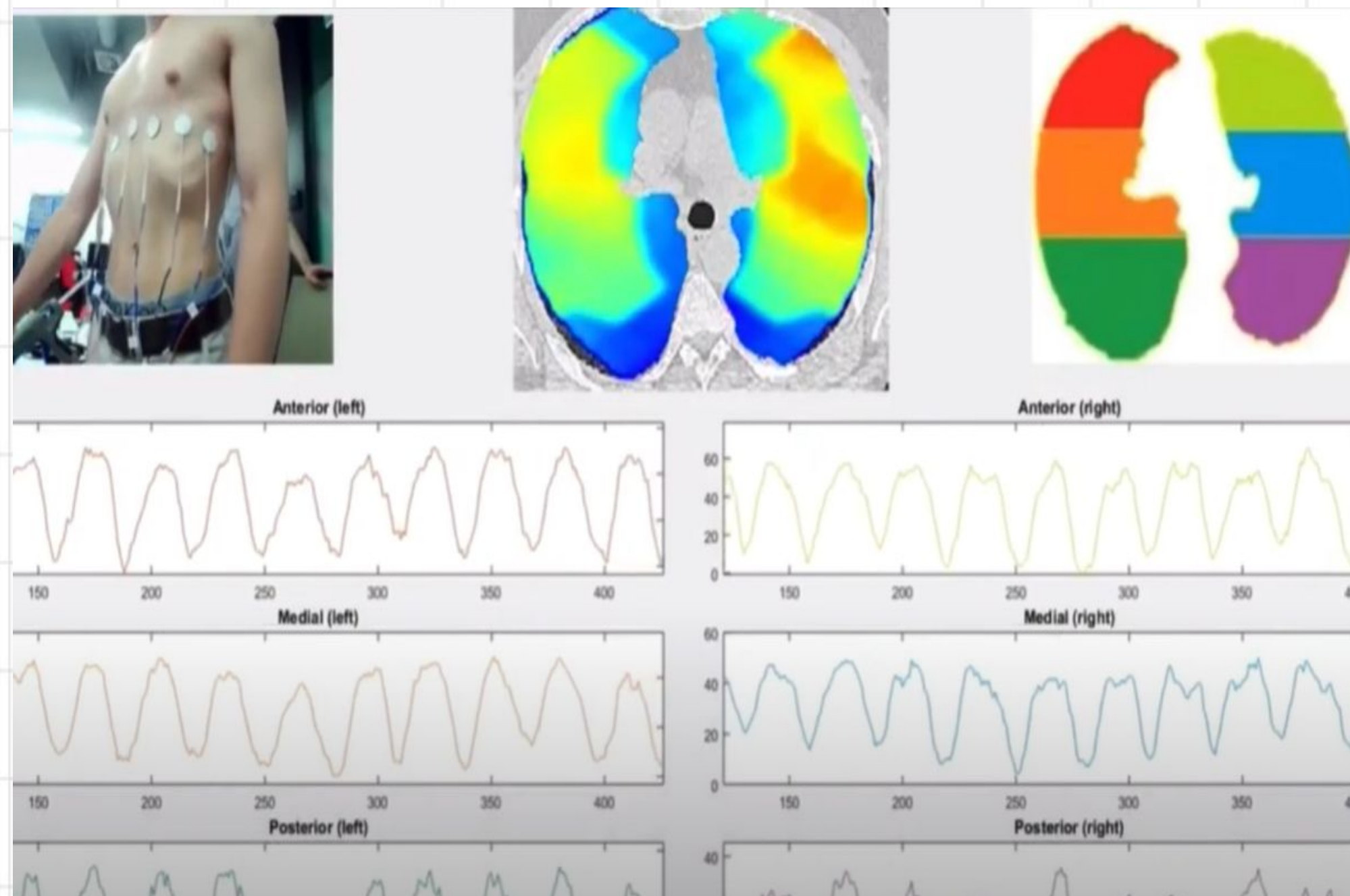
If you can, try to pick 1 to 3 UN Goals that look interesting to you from the [page](#) while we visit it together



A hand holding a syringe with a blue plunger, blurred in the foreground, against a white background with bold black text.

**WHEN
IS THE END?
19**

CoronAI



Identifying a Problem



“What problems or challenges do you face daily?”



Ask:

- Professors
- Local businesses
- Non-profit orgs
- Friends & Family



Example:

Ask your professor these questions:

Where do you spend most of your time at work (this can be virtual)?

What do you find most difficult in your job?

What tools do you wish you had available?



Source: [DSC Solution Challenge: How to identify a problem \(great video\)](#)

Defining Your Solution

The best thing you can do to help define your solution is to clearly define the **problem** you are trying to solve.

Skipping over the **problem-definition** step and trying to build a solution right away will make your project **messy and confusing**.

We still have plenty of time before the Solution Challenge, so let's focus on **finding problems and defining them**, together!

Defining Your Solution

(Tuan)

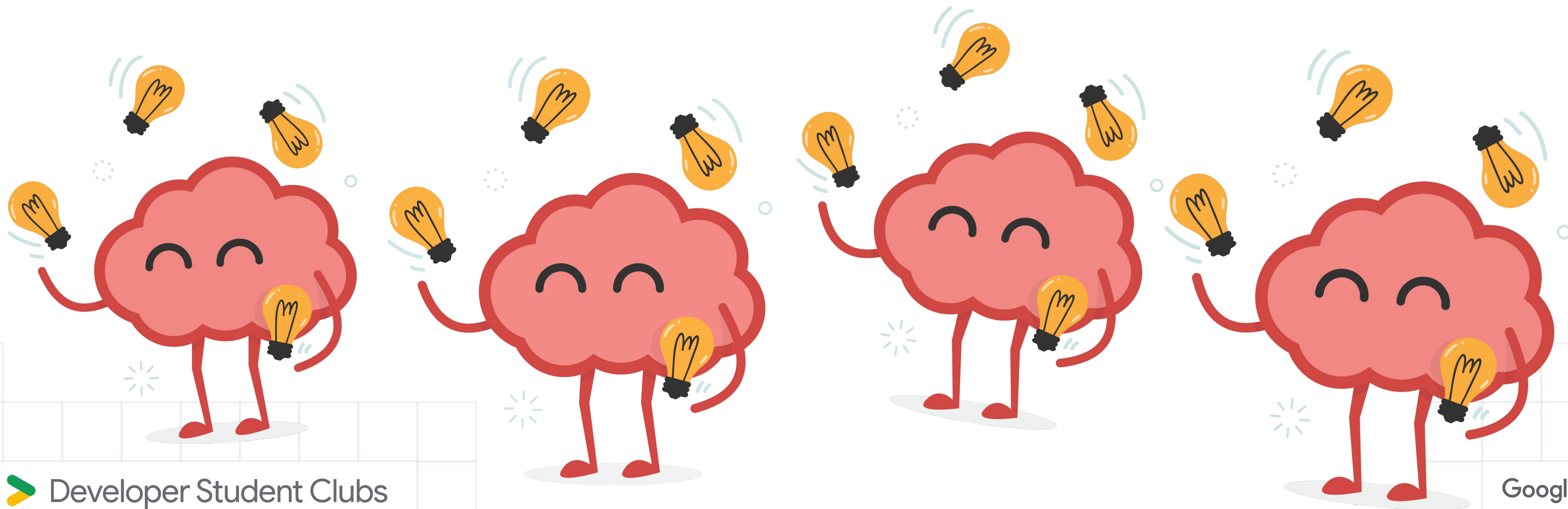
After you've **found a problem** in your community, ask the people dealing with the problem some **good questions**:

*What is the problem? Who is dealing with it? Why does it happen?
Where does it happen? How does it begin? What would a complete solution look like?*

Forming a Team



You can have **up to 4 members** on your team. We recommend having 4 team members so you have **as many smart brains** as possible!



Forming a Team



Common advice is to elect one member as the **team leader**.
The leader will coordinate the team, ensure project milestones are met by agreed-upon dates, etc.

The team leader doesn't make all the group's decisions, they just help manage the group



Q&A

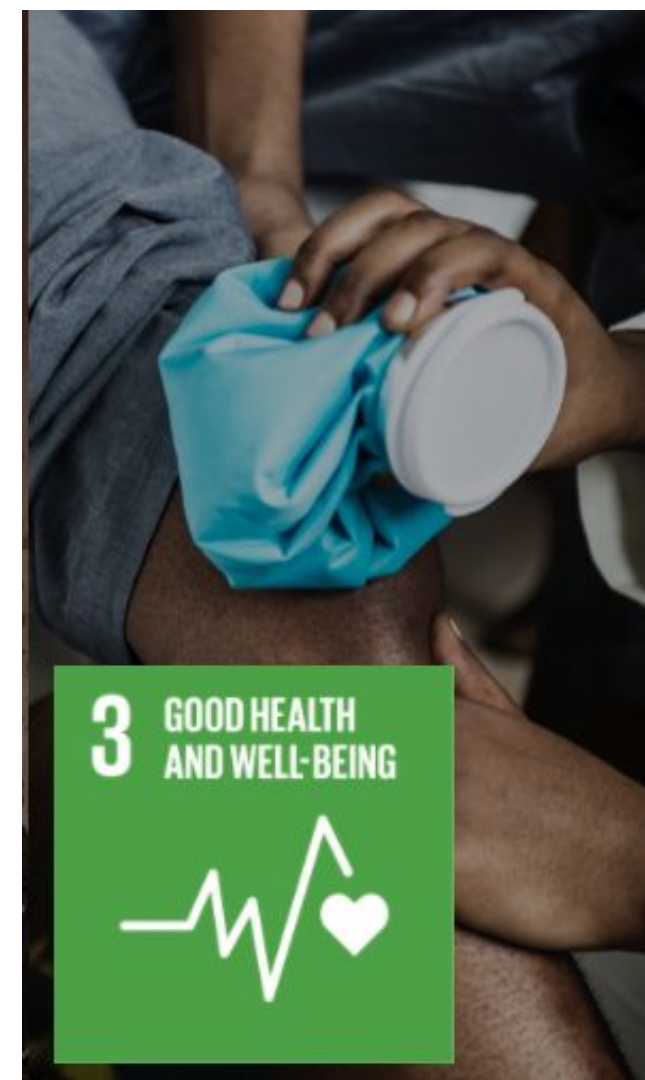


5 minutes with Michael, Tuan, Leilani, and guest speaker Danny.

More questions:

1. tag **@Daniel Fiorillo** in the **Developer Student Clubs - North America** Slack and ask him there,
2. ask us in the **PSU-DSC** Slack, or
3. ask **your own DSC chapter!**

Brainstorming Challenge!



Remember your 1-3 UN categories of interest from earlier.
Now...

Week 1 Project Milestone:



1. Start a **Solution Brainstorming** thread or participate in a **discussion about Solution Challenge project ideas** in your **DSC chapter** related to the **UN Goals** you chose. (Example Slack/Discord message 2 slides down)



Week 1 *Bonus Challenge*:



Contact at least one person in your community and ask to interview them.

- Professors
- Local businesses
- Non-profit orgs
- Friends & Family



HAVE FUN

Week 1 Contest:



Chance to Win a Google Backpack!

1. **Sign up to your school's Developer Student Club** (For example: PSU DSC).
2. Complete the **Week 1 Project Milestone** (participate in a Solution Challenge discussion).
3. Complete the **Week 1 Bonus Challenge** (contact at least one person in your community and ask to interview them).
4. **Fill out** the [contest form](#).
5. Attend our **Solution Challenge Info Session Part 2** where we will select a winner!



- Professors
- Local businesses
- Non-profit orgs
- Friends & Family



HAVE FUN

Example Slack/Discord Message



“ Hi Everyone!

The **Solution Challenge 2021** is coming up, and the topic of this year’s challenge is to solve a problem related to the United Nations humanitarian goals. I would like to start a discussion in our DSC”

Thank You – Join the PSU DSC!

If you haven't already, join our DSC (PSU students and students who don't have a local DSC)! We need motivated, excited students like you!

[Become a member of the PSU DSC!](#)

We also need dedicated students interested in learning and teaching technology and programming to be **Technical Leads** at the PSU DSC:

[Apply to become a Tech Lead \(Marketing Lead also available\)!](#)