Solution

Challenge

‹› Google Developer Student Clubs

Solution Challenge 2021 Resources

Solution Challenge 2021 is now live! This year the mission is to solve for one or more of the United Nations 17 Sustainable Development Goals using Google technology. Learn more about the prizes, timeline, and how to register at **goo.gle/solutionchallenge**

- RSVP to the upcoming events and view past event recordings at **dsc.community.dev/2021-solution-challenge**

- Overview of the Solution Challenge 2021 by Global Program Manager - **Intro to the 2021 Solution Challenge**

- Learn how you can come up with the ideas for the challenge - **Brainstorming ideas for the 2021 Solution Challenge**

- Example Project for Solution Challenge - **2021 Solution Challenge: Example project**

- Learn more about the Sustainable Development Goals here - **More info about the 17 SDGs**

- Learn how to design a project from scratch -

  1. IDENTIFYING A PROBLEM The first step to building any solution is a clear and well defined problem. Watch the video **here**.

  2. IDENTIFYING A SOLUTION The next step is to identify the best solution based on your user's needs and given your team's resources and capabilities.Watch the video **here**.

3. DESIGNING THE INTERFACE After that, it's time to design your solution's interface, or how a user will interact with the solution. This work is where user-interface and user-experience design comes in.Watch the video **here**.

4. DESIGNING THE TECHNOLOGY After fully understanding the problem and designing how a user will interact with our solution, we design the technology.Watch the video **here**.

2020 Solution Challenge Demo Day

Check out the **2020 Solution Challenge Demo Day** where we showcased the Top 10 winners and their solutions! Viewers got to ask questions directly to these teams and learn more about the amazing technology behind their solutions.

Full Video: **https://goo.gle/311QMKB**
Full Playlist: **Link**

2020 Solution Challenge Winners

Check out this **Google Developers blog** showcasing the top 10 winners and their solutions!

2019 Solution Challenge Winner

Immunization Calculator from Muni University in Uganda is a mobile application that helps local health workers in the immunization sector improve the efficiency in their operation. Samuel and his team met the local health workers in Uganda and learned that it takes a lot of effort and time for them to calculate an optimal vaccine injection schedule for each patient because there are a variety of vaccines and each of them has different policies.

After a number of consultations with the health workers, Samuel and his team developed an Immunization Calculator and provided them an automated solution not only to plan a vaccine injection schedule easily but also to track record and calculate the dropout rate, which helps the health workers analyze the data for the future improvement.

The team used native script, Android platform and the cloud based database 'Firebase' to build the Immunization calculator. The cloud messaging service 'FCM' has been used to notify the due dates of vaccines to health workers.

Immunization Calculator team members:

Samuel Mugisha, Joshwa Benkya and Samuel Itwaru
Read Google Developers blog post **here**.