Google Solution Challenge

**Question 1**

Please clearly describe the United Nations' Sustainable Development goal(s) AND target(s) you are looking to solve with technology. What inspired you to select these specific goal(s) AND target(s)?

The ability to comprehend and analyze text is extremely critical as literacy plays a significant role in reducing gender, race, nationality, and religious inequality by providing access to education, property, employment, health care, and government services. People with literacy problem face several difficulties in proceeding daily life activities from navigation and ordering food to services utilization. With fright and shame, it discourages people in this group to seek for help and puts them at risk as they are unable access and utilize necessary services that aim to improve quality of life.

The UNSDGs we would like to address is Reduced Inequalities (10) and Sustainable Cities and Communities (11). Our team targets population with literacy problem who face difficulties in accessing and utilizing services provided by the government. Since filling a form requires a certain level of literacy, it becomes one of the major obstacles preventing people from obtaining and utilizing governmental services such as health care and public welfare. Our team aspires to reduce the gap and foster an inclusive community by creating a tool that helps facilitate this difficult task, so that people with literacy difficulty can proceed their daily activities while ensuring the access to services in needs.

**Question 2**

How does your solution address the challenge you are looking to solve for?

Parrot.ai is a web application that allows users to complete a form or an application without having to read and write by themselves. It will navigate users through the form and fill out each question using \_\_\_\_\_\_\_\_\_\_\_\_.

Social services and government agencies can partner with Parrot.ai to create an interactive form that helps overcome literacy barrier. Literacy is not the only factor that limits the access, but usually also the disproportionate numbers of agency workers and people who need help.

Our web application will free up some responsibilities of agencies, allowing them to perform their tasks more efficiently and effectively, and 22% of adults in the US who can perform below basic literacy level (National Center for Education Statistics, 2017) will instantly gain a better access to social services and public welfare. As the literacy barrier is eliminated, it will also encourage more participation in civic engagement, informational request, and assistance seeking, which can help people with literacy difficulty to accomplish more advanced tasks and achieve a better quality of life.

With Parrot.ai, the city will have tool to reduce inequality and establish an infrastructure that foster an inclusive community and growth without leaving any group of population behind.

**Question 3**

What do you see as the future / next steps for your project? How will you expand your solution to reach a larger audience?

In the future, we would like to expand the scope of our service from government services to other services as well to serve a more personal use such as financial activities or relocation. In terms of technical feature, adding a translations feature can also add numerous values. This will allow our product to reach other demographics such as immigrants or refugees who might not be familiar with new language.

**Question 4**

Walk us through the steps you took to test your solution. Can you provide three specific feedback points you received from users that tested out your solution?

**Question 5**

Please share the outcome of your testing strategy. What are three specific things you implemented and improved for your solution based on the feedback from users?

**Question 6**

Describe the architecture that your team chose for your solution. What are the high-level components of your architecture? What is the responsibility of each component? Which specific products and platforms did you choose to implement these components?

Technical components - Backend, Frontend, Technologies, Programming languages and Tools used.

**Question 7**

Highlight one challenge you faced while building your code, including detail on how you addressed the issue and the technical decisions and implementations you had to make.

**Question 8**

What feedback do you have for the Google products/platforms you used? Are there any features you would like to add for those technologies?