INFO30005 Project Proposal:

An Education and Appointment Website to Accelerate the Immunization Coverage in Developing Areas

Preliminary:

The outbreak of the Coronavirus COVID-2019 at the start of the year 2020 awakened our fear on pandemic and epidemic disease. Other than COVID-2019, we have several serious outbreaks of dangerous virous in the human history, such as Black Death and SARS. From those examples, we can see that certainly, epidemic disease will cause deaths, economic crisis and many other affective impacts. It is even more crucial nowadays since globalization has linked all parts of the world together and virus as well as the negative impacts associated usually spread more rapidly than our imagine. This raise the importance of prevention of epidemic disease, which is immunization using vaccines.

Thanks to the advanced technologies today, we do have vaccines to most of the existing preventable disease. Immunization (by using vaccines) is a simple, safe and effective way of protecting people against harmful diseases before they come into contact with them. Immunization not only protects individuals, but also others in the community, by reducing the spread of preventable diseases. Vaccines are not rare and immunization are encouraged around the world.

Yet, we still have issues regarding immunization. Consider the following:

1. People in rapid urbanization or developing areas lack education, hence they do not know immunization, or they are not aware of the importance of immunization. They might not get vaccination that is needed due to lack of information.
2. People in rapid urbanization or developing areas have financial difficulties to get vaccination and need government support. But they do not have the channel to communicate with the government and the hospital.
3. People in rapid urbanization or developing areas only have knowledge on limited types of vaccines and their understanding are not up to date.
4. People in rapid urbanization or developing areas have desire on certain types of vaccines, but the government or hospital have not introduced those vaccines to the market yet.
5. People in rapid urbanization or developing areas find it difficult to book appointment with hospital or clinic directly.

In order to accelerate the immunization coverage worldwide, including the developing areas, and to protect more people from diseases, it is worthy to solve the problems above.

Hence, in this proposal our team will highlight how we aspire to develop a web-based application that will increase the immunization coverage in developing areas that are undergoing urbanization through three main means:

1. We want to build a website with educational purpose that can increase people’s awareness towards the importance of immunization.
2. We want to build a website with appointment system. After seeing information on vaccines, users do not have to find hospital website or calling hospitals for booking. They can use our website for appointment directly.
3. We want to build a website to connect different parties together. We want to build a platform so that users, hospitals, vaccine suppliers, governments can communicate with each other and collaborate together.

Problem Specifications:

In this section, a more detailed analysis and interpretation regarding the problem will be given.

Problem statement: