

Project Design Phase-I Proposed Solution Template

Date	24.Sep.2022
Team ID	PNT2022TMID39371
Project Name	Containment Zone Alerting Application
Maximum Mark	2 Mark

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	A vast amount of mobile apps have been developed during the past few months in an attempt to "flatten the curve" of the increasing number of COVID-19 cases.

2.	Idea / Solution description	<p>The COVID-19 outbreak, which first emerged in China, has spread worldwide. On March 11, 2020, the World Health Organization (WHO) declared COVID-19 as a pandemic . The disease has disrupted global trade, employment, and travel, and many governments had to take strict measures to control the spread of the virus and minimize the burden of morbidity and mortality so that health care systems remain functional. In many countries around the world, citizens have been recommended to stay at home and practice social distancing for as long as possible as a primary measure of preventing the spread of COVID-19.</p>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> • eHealth mobile apps for COVID-19 that support several functionalities such as tracking of symptoms and provision of accurate and timely information as well as self-assessment can be implemented in a short time to be used by individuals. • Those apps provide valuable information to both governments and health care providers, since they support monitoring of patient health status and provide summary statistics regarding the progress of health. • Such apps could be used in future outbreaks of other viruses to support all involved stakeholders.

4.	Social Impact / Customer Satisfaction	<p>(i) Number and size of the cluster/s.</p> <p>(ii) Effectiveness of geographic quarantine.</p> <p>(iii) How efficiently the virus is transmitting in Indian population, taking into account environmental factors especially temperature and humidity.</p> <p>(iv) Public health response in terms of active case finding, testing of large number of cases, immediate isolation of suspect and confirmed cases and quarantine of contacts.</p> <p>(v) Geographical characteristics of the area (e.g. accessibility, natural boundaries)</p>
5.	Scalability of the Solution	<p>The COVID-19 pandemic, caused by the SARS-CoV-2 virus, continues to grip the world. Large-scale testing is required for countries to successfully limit infections and COVID-19-related mortality rates, and is key to easing many lockdown restrictions in place globally. In this unprecedented healthcare crisis, every hour matters when it comes to identifying and preventing further spread of this human coronavirus.</p>